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Part 7: Bindings

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Partie 7: Liaisons

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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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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 36, *Information technology for learning, education and training.*

A list of all parts in the ISO/IEC 19788 series can be found on the ISO website.

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.

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Introduction

The primary purpose of the ISO/IEC 19788 series is to facilitate: (1) the description of a learning resource by providing a standards-based approach to the identification and specification of the metadata elements required to describe a learning resource, e.g. as a metadata learning resource (MLR) record; and (2) the search, discovery, acquisition, evaluation, and use of learning resources, for instance by learners, instructors or automated software processes.

The ISO/IEC 19788 series is modularly structured with all subsequent parts corresponding to a specified set of user requirements for the identification and specification of metadata elements having a particular focus and intended use in the description of a learning resource. This includes categories of metadata elements focused on technical perspectives, pedagogical aspects, availability and intellectual property aspects, bindings, etc.

This document maps the different ISO/IEC 19788-1 constructs to machine readable/understandable entities. This document also proposes global (non-linguistic) identifiers for MLR entities and localized (linguistic) identifiers for the same MLR entities.

The primary purpose of the ISO/IEC 19788 series is to specify elements and their attributes for the description of learning resources. This includes the rules governing the identification of data elements and the specification of their attributes.

The ISO/IEC 19788 series provides data elements for the description of learning resources and resources directly related to learning resources.

The ISO/IEC 19788 series provides principles, rules and structures for the specification of the description of a learning resource; it identifies and specifies the attributes of a data element as well as the rules governing their use. The key principles stated in ISO/IEC 19788-1 are informed by a user requirements-driven context with the aim of supporting multilingual and cultural adaptability requirements from a global perspective.

ISO/IEC 19788-1 is information technology neutral and defines a set of common approaches, i.e. methodologies and constructs, which apply to the development of the subsequent parts of the ISO/IEC 19788 series.

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Information technology — Learning, education and training — Metadata for learning resources —

Part 7: Bindings

IMPORTANT — All links that are in regular font and blue/underlined are true links. Any other links (especially in courier font) should not be considered functional.

1 Scope

This document provides RDF mappings of the different MLR entities introduced in the MLR framework (ISO/IEC 19788-1 and its amendment): data element specifications (DESs), resource classes (RCs), data elements (DEs), application profiles (APs), MLR records and data element group specifications (DEGSs).

This document associates HTTP IRIs (linguistically neutral and linguistic) to **conceptual** MLR entities denoted by MLR identifiers. This is needed for the management of MLR entities and their versions.

Moreover, this document provides excerpts of an OWL 2 DL ontology for the resource classes and data element specifications (properties) introduced in the ISO/IEC 19788 series.

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 639-2, *Codes for the representation of names of languages — Part 2: Alpha-3 code*

ISO 639-3,[1)] *Codes for the representation of names of languages — Part 3: Alpha-3 code for comprehensive coverage of languages*

ISO 3166-1,[2)] *Codes for the representation of names of countries and their subdivisions — Part 1: Country codes*

ISO 15924,[3)] *Information and documentation — Codes for the representation of names of scripts*

ISO/IEC 11404, [4)], *Information technology — General-Purpose Datatypes (GPD)*

ISO/IEC 19788-1:2011,[5)] *Information technology — Learning, education and training — Metadata for learning resources — Part 1: Framework*

ISO/IEC 19788-1:2011/Amd 1:2014, *Information technology — Learning, education and training — Metadata for learning resources — Part 1: Framework/Amendment 1*

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1) The name and contact information of the Registration Authority for this ISO 639-3 can be found at http://www.iso.org/mara.

2) Alpha-2 codes available at http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm.

3) Codes available at http://www.unicode.org/iso15924/codelists.html.

4) Freely available at http://standards.iso.org/ittf/PubliclyAvailableStandards/index.html.

5) Freely available at http://standards.iso.org/ittf/PubliclyAvailableStandards/index.html.

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ISO/IEC 19788-2, *Information technology — Learning, education and training — Metadata for learning resources — Part 2: Dublin Core elements*

ISO/IEC 19788-2:2011/Amd 1:2016, *Information technology — Learning, education and training — Metadata for learning resources — Part 2: Dublin Core elements/Amendment 1: Non-literal content value data elements*

ISO/IEC 19788-5:2012, *Information technology — Learning, education and training — Metadata for learning resources — Part 5: Educational elements*

ISO/IEC 19788-8:2015, *Information technology — Learning, education and training — Metadata for learning resources — Part 8: Data elements for MLR records*

IETF BCP 47: 2009,[6] Tags for Identifying Languages

6) See http://tools.ietf.org/html/bcp47.

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