

Australian/New Zealand Standard™

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

Part 9: Data elements for persons



AS/NZS ISO/IEC 19788.9:2020

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee IT-019, Information and Documentation, Information Technology — Learning, Education, Training and Research. It was approved on behalf of the Council of Standards Australia on 10 February 2020 and by the New Zealand Standards Approval Board on 5 February 2020.

This Standard was published on 21 February 2020.

The following are represented on Committee IT-019:

- Australian Computer Society
- Australian Library and Information Association
- Council of Australian University Librarians
- CSIRO
- Education Services Australia
- Flinders University
- Macquarie University
- National Library of New Zealand
- Northern Territory Library
- NSW Department of Education
- Professional Scientists Australia
- University of Southern Queensland
- University of Waikato

This Standard was issued in draft form for comment as DR AS/NZS ISO/IEC 19788.9:2019.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

www.standards.govt.nz

ISBN 978 1 76072 736 9

Australian/New Zealand Standard™

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

Part 9: Data elements for persons

First published as AS/NZS ISO/IEC 19788.9:2020.

COPYRIGHT

© ISO/IEC 2020 — All rights reserved

© Standards Australia Limited/the Crown in right of New Zealand, administered by the New Zealand Standards Executive 2020

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth) or the Copyright Act 1994 (New Zealand).

Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT-019, Information and Documentation, Information Technology - Learning, Education, Training and Research.

The objective of this Standard is to provide data elements for the description of persons (individual or organization) that are related to the description of a learning resource.

These elements can later be combined with other descriptive elements from other type 1 parts of AS/NZS ISO/IEC 19788 or other standards to provide the description of a learning resource and of related entities needed for that description.

This Standard is identical with, and has been reproduced from, ISO/IEC 19788-9:2015, *Information technology — Learning, education and training — Metadata for learning resources — Part 9: Data elements for persons*.

As this document has been reproduced from an International Standard, the following applies:

- (a) In the source text “this part of ISO/IEC 19788” should read “this Australian /New Zealand Standard”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

Contents

Preface	ii
Foreword	v
Introduction	vi
1 Scope	1
1.1 Scope of MLR International Standard	1
1.2 Scope of this part of ISO/IEC 19788 — Data elements for persons	1
1.3 Exclusions	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	2
5 Data element specifications	2
5.1 Identifier (DES0100)	2
5.2 Name (DES0200)	3
5.3 Family Name (DES0300)	3
5.4 Given Name (DES0400)	4
5.5 Contact Information (DES0500)	4
5.6 vCard Text (DES0600)	5
5.7 Email Address (DES0700)	5
5.8 Affiliation (DES0800)	6
5.9 Geolocation (DES0900)	6
5.10 Latitude (DES1000)	6
5.11 Longitude (DES1100)	7
5.12 Has Communication Account (DES1200)	8
5.13 Service Provided (DES1300)	8
5.14 VoIP ID (DES1400)	8
5.15 Social Network Name (DES1500)	9
5.16 Social Network ID (DES1600)	9
5.17 Phone Type (DES1700)	10
5.18 Phone Number (DES1800)	10
6 Resource Classes	11
6.1 Resource classes from ISO/IEC 19788-1 and other parts	11
6.2 Resource classes defined in this part of ISO/IEC 19788	11
6.2.1 Resource class “Natural Person”	11
6.2.2 Resource class “Organization”	11
6.2.3 Resource class “Geographic Point”	11
6.2.4 Resource class “Communication Account”	11
6.2.5 Resource class “VoIP Account”	12
6.2.6 Resource class “Social Network Account”	12
6.2.7 Resource class “Telephone Account”	12
6.2.8 Resource class “VCard”	12
7 Predefined rule sets	12
7.1 Predefined rule sets from ISO/IEC 19788-1 and other parts	12
7.2 Rule sets defined in this part of ISO/IEC 19788	12
8 Predefined Data Element Group Specifications (DEGS)	13
8.1 Location Data Element Group Specification	13
Annex A (normative) MLR vocabularies	14
Annex B (normative) Language equivalents: English, French and Russian	15

Annex C	(normative) XML Names¹⁾: English, French and Russian	17
Annex D	(normative) Data Element Specification (DES) diagram	19
Annex E	(informative) Crosswalk to MLR	20
Bibliography	23

1) See the 'Name' production rule of Reference [4].

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 36, *Information technology for learning, education and training*.

ISO/IEC 19788 consists of the following parts, under the general title *Information technology — Learning, education and training — Metadata for learning resources*:

- *Part 1: Framework*
- *Part 2: Dublin Core elements*
- *Part 3: Basic application profile*
- *Part 4: Technical elements*
- *Part 5: Educational elements*
- *Part 8: Data elements for MLR records*

The following parts are under preparation:

- *Part 7: Bindings*
- *Part 9: Data elements for persons*
- *Part 11: Migration from the LOM to MLR*

Introduction

The primary purpose of ISO/IEC 19788 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.

This International Standard 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 part of ISO/IEC 19788 uses the data element specification model and framework provided in ISO/IEC 19788-1 to specify data elements for the description of persons (individual or organization). Persons here are entities that need description because they are related to a learning resource (e.g. they created or contributed to the learning resource). Data elements specified in this part of ISO/IEC 19788 can provide, for example, the given name, family name and email address of such a person contributing to the learning resource under description.

Australian/New Zealand Standard

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

Part 9: Data elements for persons

1 Scope

1.1 Scope of MLR International Standard

The primary purpose of this International Standard is to specify metadata 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.

This International Standard provides data elements for the description of learning resources and resources directly related to learning resources.

This International Standard 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 ISO/IEC 19788.

1.2 Scope of this part of ISO/IEC 19788 — Data elements for persons

This part of ISO/IEC 19788 provides data elements for the description of persons (individual or organization) that are related to the description of a learning resource.

These elements can later be combined with other descriptive elements from other type 1 parts of ISO/IEC 19788 or other standards to provide the description of a learning resource and of related entities needed for that description.

1.3 Exclusions

Excluded from the scope of this part of ISO/IEC 19788 are descriptive elements of a person as a learning resource. The provision of descriptive elements of a person as a learning resource might be addressed in another (future) part of ISO/IEC 19788.

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 6709:2008, *Standard representation of geographic point location by coordinates*

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 19788-1 and the following apply.