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

Part 2:
Dublin Core elements

AMENDMENT 1: Non-literal content value data elements

Technologies de l'information — Apprentissage, éducation et formation — Métadonnées pour ressources d'apprentissage —

Partie 2: Éléments "Dublin Core"

AMENDEMENT 1: Éléments de données à contenu non litéral

Reference number
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Foreword

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Amendment 1 to ISO/IEC 19788-2:2011 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 36, *Information technology for learning, education and training.*

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

Part 2:
Dublin Core elements

AMENDMENT 1: Non-literal content value data elements

Page iv, Foreword

Replace the following text:

The following parts are under preparation:

— *Part 5: Educational elements*

— *Part 6: Availability, distribution, and intellectual property elements*

Technical elements will form the subject of a future Part 4.

with the following:

— *Part 4: Technical elements*

— *Part 5: Educational elements*

— *Part 8: Data elements for MLR records*

— *Part 9: Data elements for persons*

The following parts are under preparation:

— *Part 7: Bindings*

— *Part 11: Migration from LOM to MLR*

Page v, Introduction

Add the following sentence at the end of paragraph 3 ("This part of ISO/IEC 19788 uses …")

This part of ISO/IEC 19788 provides Data Element Specifications (DESs) for data elements with literal content value (as considered in early Dublin Core) and for data elements with non-literal content value: ISO 15836 allows (implicitly) both.

Page 1, Clause 2

Replace the dated reference to ISO/IEC 19788-1:2011 by the undated reference

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

Page 4, Clause 5

For all DESs 5.1 to 5.15, rename the DES attribute "Range" to "Codomain".

Page 4, Subclause 5.1

Add the following to the "Note(s)" entry of the DES:

Is a subproperty of properties http://purl.org/dc/elements/1.1/title and http://purl.org/dc/terms/title

Page 5, 5.2

Add the following content to the "Refines" entry of the DES:

ISO_IEC_19788-2:2011::DES0600 (contributor)

Add the following notes to the "Note(s)" entry of the DES:

A DES with the same property name (creator), but with non-literal content value is provided; see 5.16.

Is a subproperty of property http://purl.org/dc/elements/1.1/creator

Page 5, 5.3

Add the following notes to the "Note(s)" entry of the DES:

A DES with the same property name (subject), but with non-literal content value is provided; see 5.17.

Is a subproperty of property http://purl.org/dc/elements/1.1/subject

Page 6, 5.4

Add the following notes to the "Note(s)" entry of the DES:

A DES with the same property name (description), but with non-literal content value is provided; see 5.18.

Is a subproperty of properties http://purl.org/dc/elements/1.1/description and http://purl.org/dc/terms/description

Page 7, 5.5

Add the following notes to the "Note(s)" entry of the DES:

A DES with the same property name (publisher), but with non-literal content value is provided; see 5.19.

Is a subproperty of property http://purl.org/dc/elements/1.1/publisher

Page 7, 5.6

Add the following notes to the "Note(s)" entry of the DES:

A DES with the same property name (contributor), but with non-literal content value is provided; see 5.20.

Is a subproperty of property http://purl.org/dc/elements/1.1/contributor

Page 8, 5.7

Add the following note to the "Note(s)" entry of the DES:

Is a subproperty of properties http://purl.org/dc/elements/1.1/date and http://purl.org/dc/terms/date

Page 9, 5.8

Add the following note to the "Note(s)" entry of the DES:

Is a subproperty of property http://purl.org/dc/elements/1.1/type

Page 9, 5.9

Add the following note to the "Note(s)" entry of the DES:

Is a subproperty of property http://purl.org/dc/elements/1.1/format

Page 10, 5.10

Add the following note to the "Note(s)" entry of the DES:

Is a subproperty of properties http://purl.org/dc/elements/1.1/identifier and http://purl.org/dc/terms/identifier

Page 11, 5.11

Add the following content to the "Refines" entry of the DES:

ISO_IEC_19788-2:2011::DES1300 (relation)

Add the following notes to the "Note(s)" entry of the DES:

A DES with the same property name (source), but with non-literal content value is provided; see 5.21.

Is a subproperty of property http://purl.org/dc/elements/1.1/source

Page 12, 5.12

Add the following note to the "Note(s)" entry of the DES:

Is a subproperty of property http://purl.org/dc/elements/1.1/language

Page 12, 5.13

Add the following notes to the "Note(s)" entry of the DES:

A DES with the same property name (relation), but with non-literal content value is provided; see 5.22.

Is a subproperty of property http://purl.org/dc/elements/1.1/relation

Page 13, 5.14

Add the following note to the "Note(s)" entry of the DES:

Is a subproperty of property http://purl.org/dc/elements/1.1/coverage

Page 14, 5.15

Add the following notes to the "Note(s)" entry of the DES:

A DES with the same property name (rights), but with non-literal content value is provided; see 5.23.

Is a subproperty of property http://purl.org/dc/elements/1.1/rights

Page 14, 5.15

Add the following eight subclauses after 5.15:

5.16 Creator (DES1600)

Data element specification	
Identifier	ISO_IEC_19788-2:2011:AMD.1:2016::DES1600
Data element specification attributes	
Property name	creator
Definition	entity primarily responsible for making the learning resource
Linguistic indicator	non-linguistic

Domain	*Learning Resource* (ISO_IEC_19788-1:2011::RC0002)
Codomain	*Person* (ISO_IEC_19788-1:2011::RC0003)
Content value rules	N/A
Refines	ISO_IEC_19788-2:2011:AMD.1:2016::DES2000 (contributor)
Example(s)	Resource denoted by URI http://dbpedia.org/resource/Mitchel_Resnick
Note(s)	1. A DES with the same property name (creator), but with literal content value is provided; see 5.2.
	2. Is a subproperty of properties http://purl.org/dc/elements/1.1/creator and http ://purl.org/dc/terms/creator

5.17 Subject (DES1700)

Data element specification	
Identifier	ISO_IEC_19788-2:2011:AMD.1:2016::DES1700
Data element specification attributes	
Property name	subject
Definition	topic of the learning resource
Linguistic indicator	non-linguistic
Domain	*Learning Resource* (ISO_IEC_19788-1:2011::RC0002)
Codomain	*Resource* (ISO_IEC_19788-1:2011::RC0001)
Content value rules	N/A
Refines	—
Example(s)	1. Resource denoted by URI http://dbpedia.org/resource/Category:Artificial_intelligence
	2. Resource denoted by URI http://id.loc.gov/authorities/subjects/sh85008180
Note(s)	1. A DES with the same property name (subject), but with literal content value is provided; see 5.3.
	2. Is a subproperty of properties http://purl.org/dc/elements/1.1/subject and http://purl.org/dc/terms/subject

5.18 Description (DES1800)

Data element specification	
Identifier	ISO_IEC_19788-2:2011:AMD.1:2016::DES1800
Data element specification attributes	
Property name	description
Definition	account of the learning resource
Linguistic indicator	non-linguistic
Domain	*Learning Resource* (ISO_IEC_19788-1:2011::RC0002)

Codomain	*Resource* (ISO_IEC_19788-1:2011::RC0001)
Content value rules	N/A
Refines	—
Example(s)	1. Resource denoted by URI http://wikipedia.org/wiki/The_Fox_and_the_Crow_(Aesop)
	2. Resource denoted by URI http://dbpedia.org/page/The_Fox_and_the_Crow_(Aesop) (with, as the learning resource being described: http://dbpedia.org/resource/The_Fox_and_the_Crow_(Aesop))
Note(s)	1. A DES with the same property name (description), but with literal content value is provided; see 5.4.
	2. Is a subproperty of properties http://purl.org/dc/elements/1.1/description and http://purl.org/dc/terms/description

5.19 Publisher (DES1900)

Data element specification	
Identifier	ISO_IEC_19788-2:2011:AMD.1:2016::DES1900
Data element specification attributes	
Property name	publisher
Definition	entity responsible for making the learning resource available
Linguistic indicator	non-linguistic
Domain	*Learning Resource* (ISO_IEC_19788-1:2011::RC0002)
Codomain	*Person* (ISO_IEC_19788-1:2011::RC0003)
Content value rules	N/A
Refines	—
Example(s)	Resource denoted by URI http://dbpedia.org/resource/University_of_Toronto_Press
Note(s)	1. A DES with the same property name (publisher), but with literal content value is provided; see 5.5.
	2. Is a subproperty of properties http://purl.org/dc/elements/1.1/publisher and http://purl.org/dc/terms/publisher

5.20 Contributor (DES2000)

Data element specification	
Identifier	ISO_IEC_19788-2:2011:AMD.1:2016::DES2000
Data element specification attributes	
Property name	contributor
Definition	entity responsible for making contributions to the learning resource
Linguistic indicator	non-linguistic

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Domain	*Learning Resource* (ISO_IEC_19788-1:2011::RC0002)
Codomain	*Person* (ISO_IEC_19788-1:2011::RC0003)
Content value rules	N/A
Refines	—
Example(s)	Resource denoted by URI http://dbpedia.org/resource/Mitchel_Resnick
Note(s)	1. A DES with the same property name (contributor), but with literal content value is provided; see 5.6. 2. Is a subproperty of properties http://purl.org/dc/elements/1.1/contributor and http://purl.org/dc/terms/contributor

5.21 Source (DES2100)

Data element specification	
Identifier	ISO_IEC_19788-2:2011:AMD.1:2016::DES2100
Data element specification attributes	
Property name	source
Definition	related resource from which the described learning resource is derived
Linguistic indicator	non-linguistic
Domain	*Learning Resource* (ISO_IEC_19788-1:2011::RC0002)
Codomain	*Resource* (ISO_IEC_19788-1:2011::RC0001)
Content value rules	N/A
Refines	ISO_IEC_19788-2:2011:AMD.1:2016::DES2200 (relation)
Example(s)	Resource denoted by URI http://dbpedia.org/resource/The_Fox_and_the_Crow_(Aesop) (with, as the learning resource being described: http://dbpedia.org/resource/La_Fontaine's_Fables)
Note(s)	1. A DES with the same property name (source), but with literal content value is provided; see 5.11. 2. Is a subproperty of properties http://purl.org/dc/elements/1.1/source and http://purl.org/dc/terms/source

5.22 Relation (DES2200)

Data element specification	
Identifier	ISO_IEC_19788-2:2011:AMD.1:2016::DES2200
Data element specification attributes	
Property name	relation
Definition	related resource
Linguistic indicator	non-linguistic
Domain	*Learning Resource* (ISO_IEC_19788-1:2011::RC0002)

Codomain	*Resource* (ISO_IEC_19788-1:2011::RC0001)
Content value rules	N/A
Refines	—
Example(s)	1. Resource denoted by URI http://dbpedia.org/resource/Le_Corbeau_et_le_Renard (with, as the learning resource being described: http://dbpedia.org/resource/The_Fox_and_the_Crow_(Aesop)) 2. Resource denoted by URI http://dbpedia.org/resource/からすときつね (with, as the learning resource being described: http://dbpedia.org/resource/The_Fox_and_the_Crow_(Aesop))
Note(s)	1. A DES with the same property name (relation), but with literal content value is provided; see 5.13. 2. Is a subproperty of properties http://purl.org/dc/elements/1.1/relation and http://purl.org/dc/terms/relation

5.23 Rights (DES2300)

Data element specification	
Identifier	ISO_IEC_19788-2:2011:AMD.1:2016::DES2300
Data element specification attributes	
Property name	rights
Definition	information about rights held in and over the learning resource
Linguistic indicator	non-linguistic
Domain	*Learning Resource* (ISO_IEC_19788-1:2011::RC0002)
Codomain	*Rights Statement* (ISO_IEC_19788-2:2011:AMD.1:2016::RC0001)
Content value rules	N/A
Refines	—
Example(s)	1. Resource denoted by URI http://creativecommons.org/licenses/by-nc/3.0/us/legalcode 2. Resource denoted by URI http://creativecommons.org/licenses/by-nc-sa/4.0/legalcode 3. Resource denoted by URI http://www.gnu.org/licenses/gpl.html
Note(s)	1. A DES with the same property name (rights), but with literal content value is provided; see 5.15. 2. Is a subproperty of properties http://purl.org/dc/elements/1.1/rights and http://purl.org/dc/terms/rights

Page 15, Clause 6

Add the following after 6.2:

6.3 The resource class "Person"

Identifier	ISO_IEC_19788-1:2011::RC0003
Name	*Person*
Definition	Any entity which is a natural or legal person
SubclassOf	ISO_IEC_19788-1:2011::RC0001 (*Resource*)
Note	—

In addition, a resource classe defined in this Part is introduced below:

6.4 The resource class "Rights Statement"

Identifier	ISO_IEC_19788-2:2011:AMD.1:2016::RC0001
Name	*Rights Statement*
Definition	A statement about the intellectual property rights (IPR) held in or over a resource, a legal document giving official permission to do something with a resource, or a statement about access rights
SubclassOf	ISO_IEC_19788-1:2011::RC0001 (*Resource*)
Note	1. The source for understanding and application of IPRs are the treaties and conventions of the World Intellectual Property Organization (WIPO) (see further: http://www.wipo.int) 2. With respect to IPR of a "copyright" nature pertaining to a learning resource, one should consider making use of the specifications found in a "Creative Commons" license (See further: https://creativecommons.org)

Page 18, B.1

Replace B.1 and its content with the following:

B.1 Resource class names

Resource class identifiers	ISO English	ISO French	ISO Russian
ISO_IEC_19788-1:2011::RC0001	Resource	Ressource	Ресурс
ISO_IEC_19788-1:2011::RC0002	Learning Resource	Ressource d'apprentissage	Образовательный ресурс
ISO_IEC_19788-1:2011::RC0003	Person	Personne	Лицо
ISO_IEC_19788-2:2011:AMD.1:2016::RC0001	Rights Statement	Déclaration de droits	Декларация прав