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AMENDMENT 1
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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 littéral

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Foreword

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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 ISO documents 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).

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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*.

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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

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 (DESSs) 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 DESSs 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	<i>Learning Resource</i> (ISO_IEC_19788-1:2011::RC0002)
Codomain	<i>Person</i> (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	<i>Learning Resource</i> (ISO_IEC_19788-1:2011::RC0002)
Codomain	<i>Resource</i> (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	<i>Learning Resource</i> (ISO_IEC_19788-1:2011::RC0002)

Codomain	<i>Resource</i> (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	<i>Learning Resource</i> (ISO_IEC_19788-1:2011::RC0002)
Codomain	<i>Person</i> (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

Domain	<i>Learning Resource</i> (ISO_IEC_19788-1:2011::RC0002)
Codomain	<i>Person</i> (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	<i>Learning Resource</i> (ISO_IEC_19788-1:2011::RC0002)
Codomain	<i>Resource</i> (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	<i>Learning Resource</i> (ISO_IEC_19788-1:2011::RC0002)

Codomain	<i>Resource</i> (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	<i>Learning Resource</i> (ISO_IEC_19788-1:2011::RC0002)
Codomain	<i>Rights Statement</i> (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	<i>Person</i>
Definition	Any entity which is a natural or legal person
SubclassOf	ISO_IEC_19788-1:2011::RC0001 (<i>Resource</i>)
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	<i>Rights Statement</i>
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 (<i>Resource</i>)
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