

**Information technology - Learning, education and training - Metadata for learning resources - Part 3: Basic application profile (ISO/IEC 19788-3:2011)**

## EESTI STANDARDI EESSÕNA

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Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 27.11.2013.	Date of Availability of the European standard is 27.11.2013.
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Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile [standardiosakond@evs.ee](mailto:standardiosakond@evs.ee).

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ICS 03.100.30; 35.240.99

English Version

Information technology - Learning, education and training -  
Metadata for learning resources - Part 3: Basic application profile  
(ISO/IEC 19788-3:2011)

Technologies de l'information - Apprentissage, éducation et  
formation - Métadonnées pour ressources d'apprentissage -  
Partie 3: Profil d'application de base (ISO/IEC 19788-  
3:2011)

Informationstechnik - Lernen, Ausbildung und Weiterbildung  
- Metadaten für Lernressourcen - Teil 3: Grundlegendes  
Anwendungsprofil (ISO/IEC 19788-3:2011)

This European Standard was approved by CEN on 24 November 2013.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

The text of ISO/IEC 19788-3:2011 has been prepared by Technical Committee JTC 1 "Information technology" of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) and has been taken over as EN ISO/IEC 19788-3:2013 by Technical Committee CEN/TC 353 "Information and Communication Technologies for Learning, Education and Training" the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2014, and conflicting national standards shall be withdrawn at the latest by May 2014.

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### Endorsement notice

The text of ISO/IEC 19788-3:2011 has been approved by CEN as EN ISO/IEC 19788-3:2013 without any modification.

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## 0 Introduction

### 0.1 Overall purpose of ISO/IEC 19788

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. The interoperability of these functions can be achieved through harvesting or federated search processes, among other technologies and solutions. ISO/IEC 19788 is based on identified user requirements.

ISO/IEC 19788 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.

### 0.2 Purpose and overview of this part of ISO/IEC 19788

This part of ISO/IEC 19788 provides a basic application profile as a recommended approach to enhance interoperability through an application profile with attributes such as presence type indicator, repeatability indicator and order indicator, applied to the Dublin Core elements specified in ISO/IEC 19788-2. Whenever learning resource descriptions are exchanged across repositories, interoperability issues are raised. For example, processing a query for learning resources in a given format requires that format information be available in all descriptions being searched. Likewise, searching or sorting based on date can only be done when a common format such as ISO 8601 is used in all sets.

This application profile is an ISO/IEC 19788 Type 2<sup>1</sup> standard. It is recommended that it be used as a best practice guide that can be further refined by communities with data elements additions from other authorities or communities, including the *IEEE Standard for Learning Object Metadata* (LOM) [4]. However, there is no obligation for MLR stakeholders to use this application profile.

This application profile provides records of metadata elements promoting best practices based on an international survey<sup>2</sup> of commonly used data elements in an ITLET (information technology for learning, education and training) context. It also reflects the actual practices of both the Dublin Core Metadata Initiative (DCMI) and the *IEEE Standard for Learning Object Metadata* (LOM) [4].

As further Type 1 parts of ISO/IEC 19788 become available, it is likely that future editions of this part of ISO/IEC 19788 will be updated to include additional data element specifications, such as Technical data elements or Educational data elements.

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<sup>1</sup> For meaning of a Type 1 MLR standard versus a Type 2 MLR standard, etc., see 13.2 *Categorization of ISO/IEC 19788 Parts* in ISO/IEC 19788-1:2011.

<sup>2</sup> *Final Report on the "International LOM Survey"* [17].

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

## Part 3: Basic application profile

### 1 Scope

The primary purpose of ISO/IEC 19788 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.

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

This part of ISO/IEC 19788 is designed to help implementers with a starting point for adopting ISO/IEC 19788, defining an application profile that specifies, through adding constraints to the use of some data elements, how the ISO/IEC 19788-2 element set can be used.

### 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 639-2:1998, *Codes for the representation of names of languages — Part 2: Alpha-3 code/Codes pour la représentation des noms de langue — Partie 2: Code alpha-3*

ISO 639-3:2007, *Codes for the representation of names of languages — Part 3: Alpha-3 code for comprehensive coverage of languages*

ISO 8601:2004, *Data elements and interchange formats — Information interchange — Representation of dates and times*

ISO/IEC 10646:2011, *Information technology — Universal Coded Character Set (UCS)*

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

ISO/IEC 19788-2:2011, *Information technology — Learning, education and training — Metadata for learning resources — Part 2: Dublin Core elements*