INTERNATIONAL STANDARD

ISO 24613-5

> First edition 2022-01

Language resource management — Lexical markup framework (LMF) —

Lang,
Lexical
Part 5:
Lexica
seria Lexical base exchange (LBX) serialization

Gestion des ressources linguistiques — Cadre de balisage lexical . Cc. (LMF) —

Partie 5: Sérialisation de l'échange de bases lexicales (LBX)





© ISO 2022

nentation, no part of all including phory difform either All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Co	Contents		
For	eword		v
1	Scop	e	1
2	Norn	native references	1
3	Tern	ns and definitions	1
4		oral requirements	
5	5eria 5.1	lization of the LMF core model (ISO 24613-1) Implementing the LexicalResource class	
	5.2	Implementing the GlobalInformation class	
	5.3	Implementing the Lexicon class	
	5.4	Implementing the LexiconInformation class	
	5.5	Implementing the LexicalEntry class	
	5.6	Implementing the OrthographicRepresentation class	5
	5.7	Implementing the Form class	
		5.7.1 Form class	
		5.7.2 Lemma class	
	5.8	Implementing the GrammaticalInformation class	
	5.9	Implementing the Sense class	
	5.10 5.11	Implementing the Definition class Implementing the CrossREF class	
6		dization of the MRD extension (ISO 24613-2)	
	6.1	Implementing Orthographic Representation subclasses	10
	6.2 6.3	Implementing the FormRepresentation classImplementing the Form subclasses	
	0.3	6.3.1 General principles	
		6.3.2 Implementing the WordForm class	
		6.3.3 Implementing the Stem class	
		6.3.4 Implementing the WordPart class	
		6.3.5 Implementing the RelatedForm class	
		6.3.6 Implementing the TextRepresentation class	
		6.3.7 Implementing the Translation class	14
		6.3.8 Implementing the Example class	
	6.4	Implementing the SubjectField class	15
	6.5	Implementing the Bibliography class	
7	Impl	ementing the CrossREF mechanism to refer to external media files	15
8	Impl	ementing the classes from the etymological extension (ISO 24613-3)	
	8.1	Implementing the Etymology class	
	8.2	Implementing the Etymon class	
		8.2.1 General	
		8.2.2 Referencing forms in an etymon	
		8.2.3 Representing the meaning of an etymon	
		8.2.5 Dating an etymon	
		8.2.6 Providing sources associated with an etymon	
	8.3	Implementing the EtyLink class	
	8.4	Implementing the CognateSet class	
	8.5	Implementing the Cognate class	
9	Addi	tional mechanisms	18
	9.1	Overview	18
	9.2	XML feature structure implementation	
	9.3	Representing various labels with <lbl></lbl>	
	94	Providing rendering information with the @rend attribute	18

ISO 24613-5:2022(E)

	ection implementation	
	ying LBX serialization	
	, ing 22/1 oct iui12uctoii	
0_		
- 1×		
0,		
9		
	~	
	0	
	0,,	
	6	
	46	
		0
		O'

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO 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 of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 37, Language and terminology, Subcommittee SC 4, Language resource management.

This first edition of ISO 24613-5, together with ISO 24613-1:2019, ISO 24613-2:2020, ISO 24613-3:2021 and ISO 24613-4:2021, cancels and replaces ISO 24613:2008, which has been technically revised.

The main change compared to the previous edition is as follows:

entire revision of the content and its subdivisions into several parts.

A list of all parts in the ISO 24613 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.

This document is a previous general ded by tills

Language resource management — Lexical markup framework (LMF) —

Part 5:

Lexical base exchange (LBX) serialization

1 Scope

This document describes the serialization of the lexical markup framework (LMF) model defined as an extensible markup language (XML) model derived from the language base exchange (LBX) schema and compliant with the W3C XML schema. This serialization covers the classes, data categories, and mechanisms of ISO 24613-1 (core model), ISO 24613-2 (machine-readable dictionary (MRD) model), and ISO 24613-3 (etymological extension).

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 15924, Information and documentation — Codes for the representation of names of scripts

ISO 24613-1, Language resource management — Lexical markup framework (LMF) — Part 1: Core model

ISO 24613-2, Language resource management — Lexical markup framework (LMF) — Part 2: Machine-readable dictionary (MRD) model

ISO 24613-3, Language resource management — Lexical markup framework (LMF) — Part 3: Etymological extension

IETF BCP 47. Tags for Identifying Languages. PHILLIPS, A., DAVIS, M. (eds.), September 2009. Best Current Practice. Available from: https://tools.ietf.org/html/bcp47

W3C. Extensible Markup Language (XML) 1.1 (Second Edition). W3C Recommendation 16 August 2006, edited in place 29 September 2006. Available from: https://www.w3.org/TR/2006/REC-xml11 -20060816/

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 24613-1 and ISO 24613-3 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

4 General requirements

This document aims at providing constructs for each LMF class from ISO 24613-1 (core model), ISO 24613-2 (MRD extension), and ISO 24613-3 (etymological extension). It requires compliance