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NEN-ISO 24615-2

(en)

Language resource management - Syntactic annotation framework (SynAF) - Part 2: XML serialization (Tiger vocabulary) (ISO 24615-2:2018, IDT)

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**Language resource management —
Syntactic annotation framework
(SynAF) —**

**Part 2:
XML serialization (Tiger vocabulary)**

*Gestion de ressources linguistiques — Cadre d'annotation syntaxique
(SynAF) —*

Partie 2: Sérialisation XML (vocabulaire Tiger)

Preview



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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).

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For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 37, *Terminology and other language and content resources*, Subcommittee SC 4, *Language resource management*.

A list of all parts in the ISO 24615 series can be found on the ISO website.

Introduction

The need for standardization of syntactic annotation was recognized and addressed in detail with the publication of ISO 24615-1:2014. As a result of the work on ISO 24615-1:2014, it was anticipated that such a reference model for syntactic annotation should be associated with a concrete XML serialization in order to meet the specific needs of such applications as syntactic parsers or syntactic treebanks, where representations have to be exchanged and reused. Furthermore, such a serialization should be independent from the theoretical orientation and specific details of any specific annotation scheme.

This document answers this need on the basis of the seminal work carried out on the TigerXML format^[3]. This starting point was chosen as a reference because it is widely used as a de facto standard for unrelated XML treebanks, with the advantages in terms of interoperability offered by its XML-based representations, as opposed to other frequently used formats, in particular, the Penn Treebank bracketing format^[5] or the CoNLL format for dependency structures (see Reference^[4]).

The document is designed to complement ISO 24615-1:2014 and to coordinate closely with ISO 24610, ISO 24611, ISO 24612 and ISO 12620.

This document therefore extends ISO 24615-1:2014 with an XML model based upon the Tiger XML vocabulary for the interchange of syntactically annotated data which is both standardized as well as language- and theory-independent. The proposed format directly instantiates all features of the meta-model defined in ISO 24615-1 and defines concrete serialized interfaces to the complementary ISO 24611 and ISO 12620, which provides the background for the DatCatInfo data category registry.

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Language resource management — Syntactic annotation framework (SynAF) —

Part 2: XML serialization (Tiger vocabulary)

1 Scope

This document describes an XML-conformant serialization of the ISO 24615-1 meta-model, with the objective of supporting interoperability across language resources or language processing components in the domain of syntactic annotations. As an extension of ISO 24615-1, this document is also coordinated with ISO 24612.

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 12620, *Terminology and other language and content resources — Data category specifications*

ISO 24610 (all parts), *Language resource management — Feature structures*

ISO 24611, *Language resource management — Morpho-syntactic annotation framework (MAF)*

ISO 24612, *Language resource management — Linguistic annotation framework (LAF)*

ISO 24615-1, *Language resource management — Syntactic annotation framework (SynAF) — Part 1: Syntactic model*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12620, ISO 24610 (all parts), ISO 24611, ISO 24612 and ISO 24615-1 and the following apply.

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

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

3.1

domain

class of elements to which a certain set of *labels* (3.2) can be assigned

Note 1 to entry: Domains can refer generally to the set of all edges, terminal nodes or non-terminal nodes.

3.2

label

unit of annotation consisting of the name of a feature and a value, which together can be applied to appropriate model elements and add arbitrary feature-value annotations to such elements

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