RDF Mapping of Metadata

This section defines, how OpenDocument metadata is mapped to RDF[RDF-PRIMER]. The notation of triples of the form (*subject*, *predicate, object*) was adopted from [RDF-PRIMER].
The subject "" refers to the current document and ??? refers to an anonymous node. For details, please refer to "blank node identifiers" as defined in [RDF-PRIMER].

Pre-Defined Metadata

The following table shows how the dublin core[DCMI] elements from section 3.1 are mapped to RDF triples.

Pre-Defined Metadata	Subject	Predicate	Object
`<dc:date>`*value*`</dc:date>`	""	dc:date	*value*
`<dc:language>`*value*`</dc:language>`	""	dc:language	*value*
`<dc:creator>`*value*`</dc:creator>`	""	dc:creator	*value*
`<dc:description>`*value*`</dc:description>`	""	dc:description	*value*
`<dc:language>`*value*`</dc:language>`	""	dc:language	*value*
`<dc:subject>`*value*`</dc:subject>`	""	dc:subject	*value*
`<dc:title>`*value*`</dc:title>`	""	dc:title	*value*

The OpenDocument meta elements from section 3.1 are mapped to RDF triples accoding to the following table:

Pre-Defined Metadata	Subject	Predicate	Object
`<meta:creation-date>`*value*`</meta:creation-date>`	""	meta:creation-date	*value*
`<meta:editing-cycles>`*value*`</meta:editing-cycles>`	""	meta:editing-cycles	*value*
`<meta:editing-duration>`*value*`</meta:editing-duration>`	""	meta:editing-duration	*value*
`<meta:generator>`*value*`</meta:generator>`	""	meta:generator	*value*
`<meta:initial-creator>`*value*`</meta:initial-creator>`	""	meta:initial-creator	*value*
`<meta:keyword>`*value*`</meta:keyword>`	""	meta:keyword	*value*
`<meta:print-date>`*value*`</meta:print-date>`	""	meta:print-date	*value*
`<meta:printed-by>`*value*`</meta:printed-by>`	""	meta: printed-by	*value*

The following metadata require the introduction of an intermediate anonymous mode represented by the identifier ???: <meta:auto-reload>, <meta:document-statistic>, <meta:hyperlink-behaviour>, <meta:template>, <meta:user-defined>.
The mapping is given in the tables below:

Pre-Defined Metadata	Subject	Predicate	Object

`<meta:document-statistic`
` meta:object-count="value1"`
` meta:page-count="value2"`
` meta:paragraph-count="value3"`
`/>`
	""	meta:creation-date	???

	???	meta:object-count	value1
	???	meta:page-count	value2
	???	meta:paragraph-count	value3

Pre-Defined Metadata	Subject	Predicate	Object

`<meta:auto-reload`
` meta:delay="value1"`
` xlink:actuate="value2"`
` xlink:href="value3"`
` xlink:show="value4"`
` link:type="value5"`
`/>`
	""	meta:auto-reload	???

	???	meta:delay	value1
	???	xlink:actuate	value2
	???	xlink:href	value3
	???	xlink:show	value4
	???	xlink:type	value5

Pre-Defined Metadata	Subject	Predicate	Object

`<meta:hyperlink-behaviour`
` office:target-frame-name="value1"`
` xlink:show="value2"`
`/>`
	""	meta:hyperlink-behaviour	???

	???	office:target-frame-name	value1
	???	xlink:show	value2

Pre-Defined Metadata	Subject	Predicate	Object

`<meta:template`
` meta:date="value1"`
` xlink:actuate="value2"`
` xlink:href="value3"`
` xlink:show="value4"`
` link:type="value5"`
`/>`
	""	meta:template	???

	???	meta:date	value1
	???	xlink:actuate	value2
	???	xlink:href	value3
	???	xlink:show	value4
	???	xlink:type	value5

User-Defined Metadata

User-Defined metadata as specified in section 3.2. is mapped into the following triples:

Pre-Defined Metadata	Subject	Predicate	Object

`<meta:user-defined`
` meta:name="`*value1*`"`
` meta:value-type="`*value2*`">`
value3`</meta:user-defined>`
	""	meta:user-defined	???

	???	meta:name	*value1*
	???	meta:value-type	*value2*
	???	meta:value	*value3*

Sample Metadata

This is the RDF representation of the metadata example presented in section 2.2.2:

Subject	Predicate	Object
""	dc:title	"Title of the document"
""	dc:description	"Description/Comment for the document"
""	meta:initial-creator	"User Name"
""	meta:creation-date	"1999-10-18T12:34:56"
""	dc:creator	"User Name"
""	dc:date	"1999-10-19T15:16:17"
""	meta:printed-by	"User Name"
""	meta:print-date	"1999-10-20T16:17:18"
""	dc:subject	"Description of the document"
""	meta:editing-duration	"PT5H10M10S"
""	meta:keyword	"First keyword"
""	meta:keyword	"Second keyword"
""	meta:keyword	"Third keyword"
""	meta:template	*???$_1$*
???$_1$	xlink:href	"file:///c|/office52/share/template/german/finance/budget.vor"
???$_1$	xlink:type	"simple"
???$_1$	xlink:title	"Template name"

Subject	Predicate	Object
???₁	meta:date	"1999-10-15T10:11:12"
""	meta:auto-reload	*???₂*
???₂	xlink:type	"simple"
???₂	meta:delay	"P60S"
???₂	xlink:href	"file:///..."
???₂	dc:language	"de-DE"
""	meta:user-defined	*???₃*
???₃	meta:name	"Field 1"
???₃	meta:value-type	"string"
???₃	meta:value	"Value 1"
""	meta:user-defined	*???₄*
???₄	meta:name	"Field 2"
???₄	meta:value-type	"float"
???₄	meta:value	"1.234"

Bibliography

[RDF-PRIMER]   Graham Klyne, Jeremy J. Carroll, *Resource Description Framework (RDF): Concepts and Abstract Syntax*, http://www.w3.org/TR/rdf-concepts/, W3C, 2004.
[DCMI]   -, *Dublin Core Metadata Element Set, Version 1.1: Reference Description*, http://www.dublincore.org/documents/dces/, Dublin Core Metadata Initiative, 2003.