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 _:name are *blank node identifiers*, which 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	*value*

Pre-Defined Metadata	Subject	Predicate	Object
`</meta:printed-by>`			

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	_:statistic

	_:statistic	meta:object-count	value1
	_:statistic	meta:page-count	value2
	_:statistic	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	_:auto-reload

	_:auto-reload	meta:delay	value1
	_:auto-reload	xlink:actuate	value2
	_:auto-reload	xlink:href	value3
	_:auto-reload	xlink:show	value4
	_:auto-reload	xlink:type	value5

Pre-Defined Metadata	Subject	Predicate	Object

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

	_:link	office:target-frame-name	value1
	_:link	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	_:template

	_:template	meta:date	value1
	_:template	xlink:actuate	value2

Pre-Defined Metadata	Subject	Predicate	Object
`/>`	_:template	xlink:href	*value3*
	_:template	xlink:show	*value4*
	_:template	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	_:ud

	_:ud	meta:name	*value1*
	_:ud	meta:value	*value3^^value2*

The triple (_:ud, meta:value, *value3^^value2*) contains a *typed literal*, according to [RDF-PRIMER]. This means, that the data typed of the literal *value3* is set to *value2*.

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"

Subject	Predicate	Object
""	meta:keyword	"Third keyword"
""	meta:template	_:tp1
_:tp1	xlink:href	"file:///c|/office52/share/template/german/finance/budget.vor"
_:tp1	xlink:type	"simple"
_:tp1	xlink:title	"Template name"
_:tp1	meta:date	"1999-10-15T10:11:12"
""	meta:auto-reload	_:ar1
_:ar1	xlink:type	"simple"
_:ar1	meta:delay	"P60S"
_:ar1	xlink:href	"file:///..."
_:ar1	dc:language	"de-DE"
""	meta:user-defined	_:ud1
_:ud1	meta:name	"Field 1"
_:ud1	meta:value	"Value 1"^^"string"
""	meta:user-defined	_:ud2
_:ud2	meta:name	"Field 2"
_:ud2	meta:value	"1.234"^^"float"

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.