OpenDocument 1.2 File Format Change Proposal

Metadata Model, 6Jun2007

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1 Metadata Model

Metadata in OpenDocument format is expressed using the model of the W3C Resource Description Framework [RDF-CONCEPTS].

Metadata may be contained either in separate files within the package (metadata files), or it may be embedded in content of the document (in content metadata).

1.1 Metadata Files

An OpenDocument package may contain an arbitrary number of metadata files. The content of the metadata files **shall** conform to the [RDF-XML] specification. Applications that read and write documents **should** preserve all metadata files. Metadata files **should** not be modified unless the content of the metadata file is changed.

The OpenDocument format does not restrict RDF/XML elements or attributes for metadata files except as defined for the OpenDocument format. Support for RDF/XML elements or attributes may vary from application to application.

In addition to the metadata RDF/XML files, metadata may also be specified in content using the in content metadata (see section 1.2).

1.1.1 Declaration of Metadata Files in the Metadata Manifest

Metadata files **shall** be listed in a separate metadata manifest.

The metadata manifest file **shall** be stored at "/". The metadata manifest file **shall** be named "manifest.rdf".

The metadata manifest file is based on RDF/XML and fulfills two basic functions:

1. It enumerates metadata files and their relationships to other files in the OpenDocument package.
2. It associates OpenDocument elements of the document to IRIs in the metadata files.

Metadata Manifest

The metadata manifest file describes the metadata files of the OpenDocument package in RDF/XML. Its semantics are specified in the OWL Web Ontology Language (see [OWL]).

Prefix for the normative OWL document:

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
    OASIS Open Document  1.2,
     9 May 2007 OWL Manifest Description

    © 2002-2007 OASIS Open
    © 1999-2007 Sun Microsystems, Inc.
-->

<rdf:RDF xmlns="http://www.w3.org/2000/01/rdf-schema#"
    xmlns:dc="http://purl.org/dc/elements/1.1/"
    xmlns:odf="http://docs.oasis-open.org/opendocument/meta/package#"

    xmlns:owl="http://www.w3.org/2002/07/owl#"
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
```

Metadata Package

The <odf:Package> in the metadata manifest represents the OpenDocument package itself. The package (i.e. the document) is identified by the IRI of the rdf:about attribute on the <odf:Package>.

```
<owl:Ontology rdf:about="http://docs.oasis-open.org/opendocument/meta/package#">
    <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
    <dc:title xml:lang="en">Open Document Format Metadata Manifest
Ontology</dc:title>
    <label xml:lang="en">ODF Metadata Manifest</label>
</owl:Ontology>

<owl:Class rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#Package">
    <label xml:lang="en">ODF Package</label>
</owl:Class>
```

Metadata Files

A metadata file in an OpenDocument package is represented by an element of class <odf:File> or by one of its subclasses <odf:ContentFile>, <odf:StylesFile> or <odf:MetadataFile>. The relationship between a metadata file and its package is expressed using the property <odf:hasPart>.

An rdf:about attribute defines the <odf:File> or one of its subclasses by an IRI. In case of a metadata RDF/XML file this IRI represents a named RDF graph.

Note: One or more <rdf:type> property specify the metadata type of a metadata file.

```
<owl:Class rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#File">
    <label xml:lang="en">ODF File</label>
</owl:Class>

<owl:ObjectProperty rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#hasPart">
    <domain rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#Package"/>
    <range rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#File"/>
    <label xml:lang="en">contains</label>
    <comment xml:lang="en">Related to dcterms:hasPart of the Dublin Core
Metadata Initiative</comment>
</owl:ObjectProperty>
```

OpenDocument Content File

The <odf:ContentFile> class represents the content.xml file.

```
<owl:Class rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#ContentFile">
    <label xml:lang="en">The OpenDocument Content File</label>
    <comment xml:lang="en">The unique content.xml from the root path of the
package</comment>
    <subClassOf rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#File"/>
</owl:Class>
```

OpenDocument Styles File

The <odf:StylesFile> class represents the styles.xml file.

```
<owl:Class rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#StylesFile">
    <label xml:lang="en">The OpenDocument Styles File</label>
    <comment xml:lang="en">The unique styles.xml from the root path of the
package</comment>
    <subClassOf rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#File"/>
</owl:Class>
```

OpenDocument Metadata File

The <odf:MetadataFile> class represents a metadata file.

```
<owl:Class rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#MetadataFile">
    <label xml:lang="en">An OpenDocument Metadata File</label>
    <comment xml:lang="en">Used for any metadata file in the package</comment>
    <subClassOf rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#File"/>
</owl:Class>
```

File Path

The odf:path property describes the location of a file within the package defined in Chapter 17.[2do: Exchange chapter number by a relative link after integration to main spec]

```
<owl:DatatypeProperty rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#path">
    <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
    <domain rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#File"/>
    <range rdf:resource="http://www.w3.org/2000/01/rdf-schema#Literal"/>
    <label xml:lang="en">the ODF file path</label>
    <comment xml:lang="en">The relative path to the file within the package
relative to the package root.</comment>
</owl:DatatypeProperty>
```

File MIME Media Type

The <odf:mimeType> property is used to specify the MIME media type [RFC4288] of an <odf:File> or one of its subclasses.

```
<owl:DatatypeProperty rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#mimeType">
    <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
    <domain rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#File"/>
    <range rdf:resource="http://www.w3.org/TR/xmlschema-2/#string"/>
    <label xml:lang="en">the MIME type</label>
    <comment xml:lang="en">A string representing the MIME media type of a file
(see RFC4288).</comment>
</owl:DatatypeProperty>
```

OpenDocument Elements

The <odf:Element> class represents an XML element of the OpenDocument format.

It attaches metadata to an OpenDocument element in two ways:

1. By referencing the OpenDocument element in the package by the `odf:path` and `odf:idref` predicates.
2. By referencing the OpenDocument element by the IRI of it's `rdf:about` attribute. This IRI represents the OpenDocument element in the RDF/XML metadata files.

An `<odf:Element>` class represents an OpenDocument element found in an content.xml or styles.xml file. The relationship between a content.xml or styles.xml file and the `<odf:Element>` node is expressed using the property `<odf:hasPart>`.

Note: One or more `<rdf:type>` property specify the metadata type of an `<odf:Element>`.

The IRI of an `<odf:Element>` class is used within a RDF/XML metadata file to refer to an OpenDocument element.

For every IRI representing an OpenDocument element an RDF statement can be made about the element content. In this RDF statement the element IRI is the RDF subject, the property of `odf:content` is the RDF predicate and the content literal of the OpenDocument element is the RDF object.

In the case of bookmarks the content literal is between `<text:bookmark-start/>` and `<text:bookmark-end/>`.

```
<owl:Class rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#Element">
     <label xml:lang="en">OpenDocument Element</label>
</owl:Class>

<owl:ObjectProperty rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#hasPart">
    <domain rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#ContentFile"/>
    <range rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#Element"/>
    <label xml:lang="en">contains</label>
    <comment xml:lang="en">Related to dcterms:hasPart of the Dublin Core
Metadata Initiative</comment>
</owl:ObjectProperty>

<owl:ObjectProperty rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#hasPart">
    <domain rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#StylesFile"/>
    <range rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#Element"/>
    <label xml:lang="en">contains</label>
    <comment xml:lang="en">Related to dcterms:hasPart of the Dublin Core
Metadata Initiative</comment>
</owl:ObjectProperty>

<owl:ObjectProperty rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#belongsTo">
    <domain rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#Element"/>
    <range rdf:resource="http://www.w3.org/TR/xmlschema-2/#anyURI"/>
    <label xml:lang="en">belongsTo</label>
    <comment xml:lang="en">Relates an element to a named RDF Graph of a metadata
file</comment>
</owl:ObjectProperty>
```

References to the OpenDocument Element ID

The `odf:idref` property references the `xml:id` of an XML element.

```
<owl:DatatypeProperty rdf:about="http://docs.oasis-
open.org/opendocument/meta/package#idref">
    <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
    <domain rdf:resource="http://docs.oasis-
open.org/opendocument/meta/package#Element"/>
    <range rdf:resource="http://www.w3.org/2001/XMLSchema#NCName"/>
    <label xml:lang="en">refers to the xml:id</label>
    <comment xml:lang="en">The value of the xml:id attribute of the related
OpenDocument element.</comment>
</owl:DatatypeProperty>
</rdf:RDF>
```

1.2 In Content Metadata

In content metadata can be used to treat the literal content from the content.xml and styles.xml files as an RDF object.

1.2.1 Elements capable of In Content Metadata

In content metadata can be used on the following OpenDocument elements:

- Bookmark Start - `<text:bookmark-start>`. See section 2do:reference.
- Heading - `<text:h>`. See section 2do:reference.
- Metadata Text - `<text:meta>`. See section 2do:reference.
- Paragraph - `<text:p>`. See section 2do:reference.
- Table Cell - `<table:table-cell>`. See section 2do:reference.

1.2.2 Declaration of In Content Metadata

The following attributes are used for in content metadata:

- m:about : The IRI of the RDF subject
- m:property : The IRI of the RDF predicate
- m:data-type: Data type of m:data-value
- m:data-value: The RDF object, if it appears. Otherwise, the literal content of the OpenDocument element is the RDF object.

```
<define name="common-meta-attlist" combine="interleave">
    <attribute name="m:about">
        <data type="anyURI"/>
    </attribute>
    <attribute name="m:property">
        <data type="anyURI"/>
    </attribute>
    <optional>
        <ref name="common-meta-literal-attlist"/>
    </optional>
</define>
<define name="common-meta-literal-attlist" combine="interleave">
    <attribute name="m:data-type">
        <data type="anyURI"/>
    </attribute>
    <attribute name="m:data-value">
        <ref name="string"/>
    </attribute>
```

```
</define>
```

Content as RDF Object

When the attribute pair `m:about` and `m:property` appear without `m:data-value`, the RDF object is the literal content of the OpenDocument element.

In the case of bookmarks the content literal is between `<text:bookmark-start/>` and `<text:bookmark-end/>`.

Data-Value as RDF Object

When the attribute `m:data-value` appear with `m:about` and `m:property`, `m:data-value` is the RDF object.

The literal content of the OpenDocument will be become a label. It is the RDF object of an implicit `rdfs:label` predicate about the RDF subject given by `m:about`.

The `m:data-type` value provides the data type of the RDF object.

1.3 Content based on Metadata

If content is created based on metadata - possibly from a different application - the content is inserted as part of a `<text:meta-field>` element.

This `<text:meta-field>` element may contain any paragraph content, even another `<text:meta-field>` element.

The generated content of a `<text:meta-field>` element **shall** be preserved upon each “save” operation to facilitate use of a document with an application that does not support generation of content from metadata.

```
<define name="paragraph-content" combine="choice">
    <element name="text:meta-field">
        <ref name="text-meta-field-attlist">
        <zeroOrMore>
            <ref name="paragraph-content"/>
        </zeroOrMore>
    </element>
</define>
```

The element `<text:meta-field>` has a mandatory attribute `xml:id` for the attachment of metadata.

```
<define name="text-meta-field-attlist" combine="interleave">
    <ref name="xml-id">
</define>
```

1.4 Context of the File Format Change

The following sections of the OASIS Open Office 1.1 File Format should be extended:

1.4.1 Unique Identifier for OpenDocument Elements

[Editor's Note:
This section have to be separated in the main spec to the various chapter defining the elements as the RelaxNG will be generated from the specification]

The `xml:id` attribute is standardized by the W3C [XML-ID] and gives an element an unique identification in its XML file. It is designed to work as an anchor to create references upon its element.

```
<define name="xml-id" combine="interleave">
    <optional>
        <attribute name="xml:id">
            <data type="ID"/>
        </attribute>
    </optional>
</define>
```

The attribute `xml:id` may occur on the following OpenDocument elements:

Alphabetical Index (text:alphabetical-index)

```
<define name="common-section-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Bibliography (text:bibliography)

```
<define name="common-section-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Bookmark (text:bookmark)

```
<define name="text-bookmark-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

BookmarkStart (text:bookmark-start)

```
<define name="text-bookmark-start-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Caption (draw:caption)

```
<define name="draw-caption-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Chart (chart:chart)

```
<define name="chart-chart-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Chart Data Point (chart:data-point)

```
<define name="chart-data-point-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Chart Plotting Area (chart:plot-area)

```
<define name="chart-plot-area-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Chart Series (chart:series)

```
<define name="chart-series-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Circle (draw:circle)

```
<define name="draw-circle-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Connector (draw:connector)

```
<define name=”draw-connector-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Control (draw:control)

```
<define name="draw-control-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Custom Shape (draw:custom-shape)

```
<define name="draw-custom-shape-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Drawing Page (draw:page)

```
<define name="draw-page-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Ellipse (draw:ellipse)

```
<define name="draw-ellipse-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Frame (draw:frame)

```
<define name="draw-frame-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Grouping (draw:g)

```
<define name="draw-g-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Heading (text:h)

```
<define name="heading-attrs" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Hyperlink (draw:a)

```
<define name="draw-a-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Illustration Index (text:illustration-index)

```
<define name="common-section-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Image (draw:image)

```
<define name="draw-image-attlist" combine="interleave">
```

```
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Index of Objects (text:object-index)

```
<define name="common-section-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Index of Tables (text:table-index)

```
<define name="common-section-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Index Title (text:index-title)

```
<define name="common-section-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Line (draw:line)

```
<define name="draw-line-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

List Block (text:list)

```
<define name="text-list-attr" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

List Header (text:list-header)

```
<define name="text-list-header-attr" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

List Item (text:list)

```
<define name="text-list-item-attr" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
```

```
</define>
```

Measure (draw:measure)

```
<define name="draw-measure-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Metadata Text (text:meta)

```
<define name="text-meta-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Numbered Paragraphs (text:numbered-paragraph)

```
<define name="text-numbered-paragraph-attr" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Page Thumbnail (draw:page-thumbnail)

```
<define name="draw-page-thumbnail-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Paragraph (text:p)

```
<define name="paragraph-attrs" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Path (draw:path)

```
<define name="draw-path-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Polygon (draw:polygon)

```
<define name="draw-polygon-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Polyline (draw:polyline)

```
<define name="draw-polyline-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Rectangle (draw:rect)

```
<define name="draw-rect-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Regular Polygon (draw:regular-polyon)

```
<define name="draw-regular-polygon-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Scene (dr3d:scene)

```
<define name="dr3d-scene-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Section (text:section)

```
<define name="common-section-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Sound (presentation:sound)

```
<define name="presentation-sound-attlist " combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Table (table:table)

```
<define name="table-table-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Table Cell (table:table-cell)

```
<define name="table-table-cell-attlist" combine="interleave">
```

```
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Table Column (table:table-column)

```
<define name="table-table-column-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Table of Content (text:table-of-content)

```
<define name="common-section-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

Table Row (table:table-row)

```
<define name="table-table-row-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

User Defined Index (text:user-index)

```
<define name="common-section-attlist" combine="interleave">
    <optional>
        <ref name="xml-id">
    </optional>
</define>
```

All implementations **must** preserve any `xml:id` attribute and its value when present on any of the elements listed in 1.4.3..

1.4.2 Elements capable of In Content Metadata

[Editor's Note:
This section have to be separated in the main spec to the various chapter defining the elements as the RelaxNG will be generated from the specification]

In content metadata can be used to treat the literal content from the content.xml and styles.xml files as an RDF object.

In content metadata can be used on the following OpenDocument elements:

Bookmark Start

```
<define name="text-bookmark-start-attlist" combine="interleave">
    <optional>
        <ref name="common-meta-attlist">
    <optional>
</define>
```

Heading

```
<define name="heading-attrs" combine="interleave">
    <optional>
        <ref name="common-meta-attlist">
    <optional>
</define>
```

Metadata Text

```
<define name="paragraph-content" combine="choice">
    <element name="text:meta">
        <ref name="text-meta-attlist"/>
        <zeroOrMore>
            <ref name="paragraph-content"/>
        </zeroOrMore>
    </element>
</define>
<define name="text-meta-attlist" combine="interleave">
    <optional>
        <ref name="common-meta-attlist">
    </optional>
</define>
```

Paragraph

```
<define name="paragraph-attrs" combine="interleave">
    <optional>
        <ref name="common-meta-attlist">
    </optional>
</define>
```

Table Cell

```
<define name="table-table-cell-attlist" combine="interleave">
    <optional>
        <ref name="common-meta-attlist">
    </optional>
</define>
```

1.4.3 Adding new Attribute Lists to existing Elements

This section describes changes that must be applied to the [OO] schema in order to integrate the proposed file format change.

draw:page

New “draw-path-attlist” to be able to add xml:id

```
<define name="draw-path">
    <element name="draw:path">
        <ref name="draw-path-attlist"/>
        <ref name="common-draw-path-data-attlist"/>
        <ref name="common-draw-position-attlist"/>
        <ref name="common-draw-size-attlist"/>
        <ref name="common-draw-viewbox-attlist"/>
        <ref name="common-draw-shape-with-text-and-styles-attlist"/>
        <ref name="common-draw-caption-id-attlist"/>
        <optional>
            <ref name="svg-title"/>
        </optional>
        <optional>
            <ref name="svg-desc"/>
        </optional>
        <optional>
            <ref name="office-event-listeners"/>
        </optional>
        <zeroOrMore>
            <ref name="draw-glue-point"/>
        </zeroOrMore>
        <ref name="draw-text"/>
    </element>
</define>
```

draw-polygon

New “draw-polygon-attlist” to be able to add xml:id.

```
<define name="draw-polygon">
    <element name="draw:polygon">
        <ref name="draw-polygon-attlist"/>
        <ref name="common-draw-points-attlist"/>
        <ref name="common-draw-position-attlist"/>
        <ref name="common-draw-size-attlist"/>
        <ref name="common-draw-viewbox-attlist"/>
        <ref name="common-draw-shape-with-text-and-styles-attlist"/>
        <ref name="common-draw-caption-id-attlist"/>
        <optional>
            <ref name="svg-title"/>
        </optional>
        <optional>
            <ref name="svg-desc"/>
        </optional>
        <optional>
            <ref name="office-event-listeners"/>
        </optional>
        <zeroOrMore>
            <ref name="draw-glue-point"/>
        </zeroOrMore>
        <ref name="draw-text"/>
    </element>
</define>
```

draw-polyline

New “draw-polyline-attlist” to be able to add xml:id.

```
<define name="draw-polyline">
    <element name="draw:polyline">
        <ref name="common-draw-points-attlist"/>
        <ref name="common-draw-position-attlist"/>
        <ref name="common-draw-size-attlist"/>
        <ref name="common-draw-viewbox-attlist"/>
        <ref name="common-draw-shape-with-text-and-styles-attlist"/>
        <ref name="common-draw-caption-id-attlist"/>
        <optional>
            <ref name="svg-title"/>
        </optional>
        <optional>
            <ref name="svg-desc"/>
        </optional>
        <optional>
            <ref name="office-event-listeners"/>
        </optional>
        <zeroOrMore>
            <ref name="draw-glue-point"/>
        </zeroOrMore>
        <ref name="draw-text"/>
    </element>
</define>
```

text-bookmark, text-bookmark-start and text-bookmark-end

The attribute list of the text:bookmark elements is redesigned. The attribute definition has been extracted.

```
<!-- required changes overwrite definitions in the
     OASIS Open Document 1.1 schema -->
<define name="paragraph-content" combine="choice">
    <choice>
        <ref name="text-bookmark"/>
        <ref name="text-bookmark-start"/>
        <ref name="text-bookmark-end"/>
    </choice>
</define>
<define name="text-bookmark">
    <ref name="text-bookmark-attlist"/>
</define>
<define name="text-bookmark-start">
    <ref name="text-bookmark-start-attlist"/>
</define>
<define name="text-bookmark-end">
    <ref name="text-bookmark-end-attlist"/>
</define>
<define name="text-bookmark-attlist" combine="interleave">
    <attribute name="text:name">
        <ref name="string"/>
    </attribute>
</define>
<define name="text-bookmark-start-attlist" combine="interleave">
    <attribute name="text:name">
        <ref name="string"/>
    </attribute>
</define>
<define name="text-bookmark-end-attlist" combine="interleave">
    <attribute name="text:name">
        <ref name="string"/>
    </attribute>
</define>
```

text-list-header (4.3.3)

New “text-list-header-attr” to be able to add xml:id.

```
<define name="text-list-header">
    <element name="text:list-header">
        <ref name="text-list-header-attr"/>
        <ref name="text-list-item-content"/>
    </element>
</define>
```

1.4.4 Rewording first part of Chapter “Document Metadata”

[Editor's Note:
The wording of the original section in the main spec is no longer valid as further metadata have been added]

Metadata is general information about a document. Metadata elements of the <office:meta> element, usually located at start of the document, may be omitted or occur multiple times. It is application-specific how to update multiple instances of the same elements.

1.4.5 Adding new Namespaces

Expand the list of namespaces in chapter “1.3 Namespaces” with prefixes “odf:” and “m:”.

Table 1 - XML Namespaces defined by the Open Document schema

Prefix	***Description***	***Namespace***
meta	Elements and attributes that describe meta information.	urn:oasis:names:tc:openoffice:xmlns:meta:1.0
odf	RDF node property and node elements for OpenDocument entities	http://docs.oasis-open.org/opendocument/meta/package#
m	Elements and attributes that describe meta information added since version 1.2	http://docs.oasis-open.org/opendocument/meta#

Relax-NG Schema Intermediate

Intermediate for the normative Relax-NG schema:

```
    </include>
```

1.5 [Topic Description]

[This is a description of the topic itself. It is only required for new features where the topic itself is not described in the OASIS Open Document 1.1 Committee Draft.]

1.5.1 [Element Description]

[The <office:new-feature> element ...]

```
<!-- these definitions are merged into the OASIS Open Document 1.1 Schema -->
<define name="office-new-feature">
    <element name="office:new-feature">
        <ref name="office-new-feature-attlist"/>
        <!-- element content -->
    </element>
</define>
```

[Attribute Description]

[The office:new-attr attribute specifies ...]

```
<define name="table-table-attlist" combine="interleave">
    <optional>
        <attribute name="table:name">
            <ref name="string"/>
        </attribute>
    </optional>
</define>
```

1.6 Relax-NG Schema Suffix

Suffix for the normative Relax-NG schema:

```
</grammar>
```

AppendixA.References

[**OO**] Michael Brauer, Daniel Vogelheim, *Open Office Specification 1.0*, http://www.oasis-open.org/committees/download.php/6032/office-spec-1.0-cd-1.sxw, OASIS, 2004.

[**OWL**] Deborah L. McGuinness, Frank van Harmelen, *OWL Web Ontology Language Overview*, http://www.w3.org/TR/2004/REC-owl-features-20040210/, W3C, 2004.

[**RDF-CONCEPTS**] Graham Klyne, Jeremy J. Carroll, Brian McBride, *Resource Description Framework (RDF): Concepts and Abstract Syntax*, http://www.w3.org/TR/rdf-concepts/, W3C, 2004.

[**RDF-XML**] Dave Beckett, Brian McBride, *RDF/XML Syntax Specification*, http://www.w3.org/TR/rdf-syntax-grammar/, W3C, 2004.

[**RFC4288**] N. Freed, J. Klensin, *Media Type Specifications and Registration Procedures*, http://www.ietf.org/rfc/rfc4288.txt, IETF, 2005.

[**XML-ID**] Jonathan Marsh, Daniel Veillard, Norman Walsh, *xml:id*, http://www.w3.org/TR/xml-id, W3C1.0, 2003.

AppendixB.Alphabetical Index