

Information technology — Open Document Format for Office Applications (OpenDocument) v1.0

ICS 35.240.30

Foreword

This British Standard is the UK implementation of ISO/IEC 26300:2006+A1:2012, incorporating corrigenda December 2010, December 2011 and August 2014. It supersedes BS ISO/IEC 26300:2006, which will remain current until OASIS standard OpenDocument Format (ODF) v1.2 has been submitted and approved for publication as an International Standard.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. For example, text altered by ISO/IEC corrigendum December 2011 is indicated in the text by AC₂.

ISO/IEC corrigendum December 2010 is appended in National Annex NA.

ISO/IEC amendment 1 is appended in National Annex NB.

ISO/IEC corrigendum August 2014 is appended in National Annex NC.

The UK participation in its preparation was entrusted to Technical Committee IST/41, Document description and processing language.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2007

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ISBN 978 0 580 87888 6

Amendments/corrigenda issued since publication

Date	Comments
30 April 2011	Addition of National Annex NA, implementing ISO/IEC corrigendum December 2010
31 January 2012	Implementation of ISO/IEC corrigendum December 2011
31 August 2012	Implementation of ISO/IEC amendment 1:2012
31 October 2014	Implementation of ISO/IEC corrigendum August 2014



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INTERNATIONAL STANDARD

**ISO/IEC
26300**

First edition
2006-12-01

Information technology — Open Document Format for Office Applications (OpenDocument) v1.0

*Technologies de l'information — Format de document ouvert pour
applications de bureau (OpenDocument) v1.0*



Reference number
ISO/IEC 26300:2006(E)

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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ISO/IEC 26300 was prepared by the OASIS OpenDocument Technical Committee [as OASIS Open Document Format for Office Applications (OpenDocument) v1.0 (second edition)] and was adopted, under the PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by the national bodies of ISO and IEC. The content of ISO/IEC 26300 and OASIS OpenDocument v1.0 2nd ed. is identical.



Open Document Format for Office Applications (OpenDocument) v1.0 (Second Edition)

Committee Specification¹, 19 Jul 2006

Document identifier:

OpenDocument-v1.0ed2-cs1.odt

Location:

This Version: <http://www.oasis-open.org/committees/office>

Previous Version: <http://docs.oasis-open.org/office/v1.0>

Editors:

Patrick Durusau, Individual
Michael Brauer, Sun Microsystems, Inc.

Abstract:

This is the specification of the Open Document Format for Office Applications (OpenDocument) format, an open, XML-based file format for office applications, based on OpenOffice.org XML [OOo].

Status:

This document was last revised or approved by the OASIS Open Document Format for Office Applications (OpenDocument) Technical Committee on the above date. The level of approval is also listed above. Check the current location noted above for possible later revisions of this document. This document is updated periodically on no particular schedule.

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For information on whether any patents have been disclosed that may be essential to implementing this specification, and any offers of patent licensing terms, please refer to the Intellectual Property Rights section of the Technical Committee web page

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National Annex NA (normative) ISO/IEC corrigendum December 2010721

National Annex NB (Normative) ISO/IEC amendment 1732

National Annex NC (normative) ISO/IEC corrigendum August 2014839

1 Introduction

1.1 Introduction

This document defines an XML schema for office applications and its semantics. The schema is suitable for office documents, including text documents, spreadsheets, charts and graphical documents like drawings or presentations, but is not restricted to these kinds of documents.

The schema provides for high-level information suitable for editing documents. It defines suitable XML structures for office documents and is friendly to transformations using XSLT or similar XML-based tools.

Chapter 1 contains the introduction to the OpenDocument format. The structure of documents that conform to the OpenDocument specification is explained in chapter 2. Chapter 3 described the meta information that can be contained in such documents. Chapters 4 and 5 describe their text and paragraph content. Text Fields are described in chapter 6, text indices in chapter 7.

Chapter 8 describes the table content of a document in OpenDocument format, chapter 9 its graphical content, chapter 10 its chart content, and chapter 11 its form content. Content that is common to all documents is described in chapter 12. The integration of SMIL animation markup into the OpenDocument schema is described in chapter 13. Chapter 14 explains style information content, chapter 15 specifies formatting properties that are can be used within styles. The data types used by the OpenDocument schema are described in chapter 16.

The OpenDocument format makes use of a package concept. These packages are described in chapter 17.

1.2 Notation

Within this specification, the key words "**shall**", "**shall not**", "**should**", "**should not**" and "**may**" are to be interpreted as described in Annex H of [ISO/IEC Directives] if they appear in bold letters.

1.3 Namespaces

Table 1 lists the namespaces that are defined by the OpenDocument format and their default prefixes. For more information about XML namespaces, please refer to the *Namespaces in XML* specification [xml-names].

Table 1: XML Namespaces defined by the OpenDocument schema

Prefix	Description	Namespace
office	For all common pieces of information that are not contained in another, more specific namespace.	urn:oasis:names:tc:opendocument:xmlns:office:1.0
meta	For elements and attributes that describe meta information.	urn:oasis:names:tc:opendocument:xmlns:meta:1.0
config	For elements and attributes that describe application specific settings.	urn:oasis:names:tc:opendocument:xmlns:config:1.0

Prefix	Description	Namespace
text	For elements and attributes that may occur within text documents and text parts of other document types, such as the contents of a spreadsheet cell.	urn:oasis:names:tc:opendocument:xmlns:text:1.0
table	For elements and attributes that may occur within spreadsheets or within table definitions of a text document.	urn:oasis:names:tc:opendocument:xmlns:table:1.0
 draw 	For elements and attributes that describe graphic content.	urn:oasis:names:tc:opendocument:xmlns:drawing:1.0
presentation	For elements and attributes that describe presentation content.	urn:oasis:names:tc:opendocument:xmlns:presentation:1.0
dr3d	For elements and attributes that describe 3D graphic content.	urn:oasis:names:tc:opendocument:xmlns:dr3d:1.0
anim	For elements and attributes that describe animation content.	urn:oasis:names:tc:opendocument:xmlns:animation:1.0
chart	For elements and attributes that describe chart content.	urn:oasis:names:tc:opendocument:xmlns:chart:1.0
form	For elements and attributes that describe forms and controls.	urn:oasis:names:tc:opendocument:xmlns:form:1.0
script	For elements and attributes that represent scripts or events.	urn:oasis:names:tc:opendocument:xmlns:script:1.0
style	For elements and attributes that describe the style and inheritance model used by the OpenDocument format as well as some common formatting attributes.	urn:oasis:names:tc:opendocument:xmlns:style:1.0
number	For elements and attributes that describe data style information.	urn:oasis:names:tc:opendocument:xmlns:data style:1.0
manifest	For elements and attribute contained in the package manifest.	urn:oasis:names:tc:opendocument:xmlns:manifest:1.0

Table 2 lists the namespaces that are defined by the OpenDocument format, but contain elements and attributes whose semantics are compatible to elements and attributes from other specifications.

Table 2: XML Namespaces defined by the OpenDocument schema that include elements and attributes that are compatible to elements and attributes of other standards.

Prefix	Description	Namespace
fo	For attributes that are compatible to attributes defined in [XSL].	urn:oasis:names:tc:opendocument:xmlns:xsl-fo-compatible:1.0
svg	For elements and attributes that are compatible to elements or attributes defined in [SVG].	urn:oasis:names:tc:opendocument:xmlns:svg-compatible:1.0

Prefix	Description	Namespace
smil	For attributes that are compatible to attributes defined in [SMIL20].	urn:oasis:names:tc:opendocument:xmlns:smil-compatible:1.0

Table 3 lists the namespaces that are imported into the OpenDocument format and their default prefixes.

Table 3: XML Namespaces used by the OpenDocument schema

Prefix	Description	Namespace
dc	The Dublin Core Namespace (see [DCMI]).	http://purl.org/dc/elements/1.1/
xlink	The XLink namespace (see [XLink]).	http://www.w3.org/1999/xlink
math	MathML Namespace (see [MathML]).	http://www.w3.org/1998/Math/MathML
xforms	The XForms namespace (see [XForms]).	http://www.w3.org/2002/xforms

1.4 Relax-NG Schema

The normative XML Schema for the OpenDocument format is embedded within this specification. It can be obtained from the specification document by concatenating all schema fragments contained in chapters 1 to 16. All schema fragments have a gray background color and line numbers.

The schema language used within this specification is Relax-NG (see [RNG]). The attribute default value feature specified in [RNG-Compat] is used to provide attribute default values.

The schema provided in this specification permits arbitrary content within meta information elements and formatting properties elements as described in section 1.5. Appendix A contains a schema that restricts the content within these elements to the attributes and elements defined in this specification.

Prefix for the normative Relax-NG schema:

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<?xml version="1.0" encoding="UTF-8"?>
<!--
  OASIS OpenDocument v1.0 (Second Edition)
  Committee Specification1, 19 Jul 2006
  Relax-NG Schema

  $Id$

  © 2002-2005 OASIS Open
  © 1999-2005 Sun Microsystems, Inc.
-->

<grammar
  xmlns="http://relaxng.org/ns/structure/1.0"
  xmlns:a="http://relaxng.org/ns/compatibility/annotations/1.0"

  datatypeLibrary="http://www.w3.org/2001/XMLSchema-datatypes"

  xmlns:office="urn:oasis:names:tc:opendocument:xmlns:office:1.0"
  xmlns:meta="urn:oasis:names:tc:opendocument:xmlns:meta:1.0"
  xmlns:config="urn:oasis:names:tc:opendocument:xmlns:config:1.0"

```

```

22  xmlns:text="urn:oasis:names:tc:opendocument:xmlns:text:1.0"
23  xmlns:table="urn:oasis:names:tc:opendocument:xmlns:table:1.0"
24  xmlns:draw="urn:oasis:names:tc:opendocument:xmlns:drawing:1.0"
25  xmlns:presentation="urn:oasis:names:tc:opendocument:xmlns:presentation:1.0"
26  xmlns:dr3d="urn:oasis:names:tc:opendocument:xmlns:dr3d:1.0"
27  xmlns:chart="urn:oasis:names:tc:opendocument:xmlns:chart:1.0"
28  xmlns:form="urn:oasis:names:tc:opendocument:xmlns:form:1.0"
29  xmlns:script="urn:oasis:names:tc:opendocument:xmlns:script:1.0"
30  xmlns:style="urn:oasis:names:tc:opendocument:xmlns:style:1.0"
31  xmlns:number="urn:oasis:names:tc:opendocument:xmlns:datatypes:1.0"
32  xmlns:anim="urn:oasis:names:tc:opendocument:xmlns:animation:1.0"
33
34  xmlns:dc="http://purl.org/dc/elements/1.1/"
35  xmlns:xlink="http://www.w3.org/1999/xlink"
36  xmlns:math="http://www.w3.org/1998/Math/MathML"
37  xmlns:xforms="http://www.w3.org/2002/xforms"
38
39  xmlns:fo="urn:oasis:names:tc:opendocument:xmlns:xsl-fo-compatible:1.0"
40  xmlns:svg="urn:oasis:names:tc:opendocument:xmlns:svg-compatible:1.0"
41  xmlns:smil="urn:oasis:names:tc:opendocument:xmlns:smil-compatible:1.0"
42  >

```

1.5 Document Processing and Conformance

Documents that conform to the OpenDocument specification **may** contain elements and attributes not specified within the OpenDocument schema. Such elements and attributes must not be part of a namespace that is defined within this specification and are called foreign elements and attributes.

Conforming applications either **shall** read documents that are valid against the OpenDocument schema if all foreign elements and attributes are removed before validation takes place, or **shall** write documents that are valid against the OpenDocument schema if all foreign elements and attributes are removed before validation takes place.

Conforming applications that read and write documents **may** preserve foreign elements and attributes.

In addition to this, conforming applications should preserve meta information and the content of styles. This means:

- The various `<style:*-properties>` elements (see section 15) **may** have arbitrary attributes attached and **may** have arbitrary element content. All attributes attached to these elements and elements contained within these elements **should** be preserved (see section 15.1.3);
- elements contained within the `<office:meta>` element **may** have arbitrary element content and **should** be preserved (see section 2.2.1).

Foreign elements **may** have an `office:process-content` attribute attached that has the value `true` or `false`. If the attribute's value is `true`, or if the attribute does not exist, the element's content **should** be processed by conforming applications. Otherwise conforming applications **should not** process the element's content, but **may** only preserve its content. If the element's content should be processed, the document itself **shall** be valid against the OpenDocument schema if the unknown element is replaced with its content only.

Conforming applications **shall** read documents containing processing instructions and **should** preserve them.

There are no rules regarding the elements and attributes that actually have to be supported by conforming applications, except that applications should not use foreign elements and attributes for features by the OpenDocument schema. See also appendix D.

```
43 <define name="office-process-content">
44   <optional>
45     <attribute name="office:process-content" a:defaultValue="true">
46       <ref name="boolean"/>
47     </attribute>
48   </optional>
49 </define>
```

AC₂ 1.6 White-Space Processing

ODF processing of whitespace characters is in conformance with the provisions of [XML 1.0].

In addition, ODF processors shall ignore all element children ([RNG] section 5, Data Model) of ODF-defined elements that are strings consisting entirely of whitespace characters and which do not satisfy a pattern of the ODF schema definition for the element.

Any special treatment of additional occurrences of whitespace characters depends on the specific definitions of individual ODF elements, attributes, and their datatypes. See, in particular, section 5.1.1. **AC₂**

1.7 MIME Types and File Name Extensions

Appendix C contains a list of MIME types and file name extensions to be used for office documents that conform to this specification and that are contained in a package (see section 2.1). This MIME types and extensions either have been registered following the procedures described in [RFC2048], or a registration is in progress.

Office documents that conform to this specification but are not contained in a package **should** use the MIME type `text/xml`.

Only MIME types and extensions that have been registered according to [RFC2048] **should** be used for office documents that conform to this specification. The MIME types and extensions listed in appendix C **should** be used where appropriate.

2 Document Structure

This chapter introduces the structure of the OpenDocument format. The chapter contains the following sections:

- Document Roots
- Document Metadata
- Body Element and Document Types
- Application Settings
- Scripts
- Font Face Declarations
- Styles
- Page Styles and Layout

In the OpenDocument format, each structural component is represented by an **element**, with associated **attributes**. The structure of a document in OpenDocument format applies to all document types. There is no difference between a text document, a spreadsheet or a drawing, apart from the content. Also, all document types may contain different styles. Document content that is common to all document types can be exchanged from one type of document to another.

2.1 Document Roots

A **document root element** is the primary element of a document in OpenDocument format. It contains the entire document. All types of documents, for example, text documents, spreadsheets, and drawing documents use the same types of document root elements.

The OpenDocument format supports the following two ways of document representation:

- As a single XML document.
- As a collection of several subdocuments within a package (see section 17), each of which stores part of the complete document. Each subdocument has a different document root and stores a particular aspect of the XML document. For example, one subdocument contains the style information and another subdocument contains the content of the document. All types of documents, for example, text and spreadsheet documents, use the same document and subdocuments definitions.

There are four types of subdocuments, each with different root elements. Additionally, the single XML document has its own root element, for a total of five different supported root elements. The root elements are summarized in the following table:

<i>Root Element</i>	<i>Subdocument Content</i>	<i>Subdoc. Name in Package</i>
<office:document>	Complete office document in a single XML document.	n/a
<office:document-content>	Document content and automatic styles used in the content.	content.xml

Root Element	Subdocument Content	Subdoc. Name in Package
<code><office:document-styles></code>	Styles used in the document content and automatic styles used in the styles themselves.	styles.xml
<code><office:document-meta></code>	Document meta information, such as the author or the time of the last save action.	meta.xml
<code><office:document-settings></code>	Application-specific settings, such as the window size or printer information.	settings.xml

The definitions of the root elements described in the table above are analogous to the definition of `<office:document>`, except that the child element specification is suitably restricted.

```

50 <start>
51   <choice>
52     <ref name="office-document"/>
53     <ref name="office-document-content"/>
54     <ref name="office-document-styles"/>
55     <ref name="office-document-meta"/>
56     <ref name="office-document-settings"/>
57   </choice>
58 </start>

```

2.1.1 Document Root Element Content Models

The content models of the five root elements is summarized in the following table. Note that `<office:document>` may contain all supported top-level elements. None of the four subdocument root elements contain the complete data, but four combined do.

Root Element	meta data	app. sett.	script	font decls	style	auto style	mast style	body
<code><office:document></code>	✓	✓	✓	✓	✓	✓	✓	✓
<code><office:document-content></code>			✓	✓		✓		✓
<code><office:document-styles></code>				✓	✓	✓	✓	
<code><office:document-meta></code>	✓							
<code><office:document-settings></code>		✓						

The `<office:document>` root contains a complete document:

```

59 <define name="office-document">
60   <element name="office:document">
61     <ref name="office-document-attrs"/>
62     <ref name="office-document-common-attrs"/>
63     <ref name="office-meta"/>
64     <ref name="office-settings"/>
65     <ref name="office-scripts"/>
66     <ref name="office-font-face-decls"/>
67     <ref name="office-styles"/>
68     <ref name="office-automatic-styles"/>
69     <ref name="office-master-styles"/>

```

```

70         <ref name="office-body"/>
71     </element>
72 </define>

```

The <office:document-content> root contains only the document content, along with the automatic styles needed for the document content:

```

73 <define name="office-document-content">
74     <element name="office:document-content">
75         <ref name="office-document-common-attrs"/>
76         <ref name="office-scripts"/>
77         <ref name="office-font-face-decls"/>
78         <ref name="office-automatic-styles"/>
79         <ref name="office-body"/>
80     </element>
81 </define>

```

The <office:document-styles> root contains all named styles of a document, along with the automatic styles needed for the named styles:

```

82 <define name="office-document-styles">
83     <element name="office:document-styles">
84         <ref name="office-document-common-attrs"/>
85         <ref name="office-font-face-decls"/>
86         <ref name="office-styles"/>
87         <ref name="office-automatic-styles"/>
88         <ref name="office-master-styles"/>
89     </element>
90 </define>

```

The <office:document-meta> root contains the meta information about a document.

```

91 <define name="office-document-meta">
92     <element name="office:document-meta">
93         <ref name="office-document-common-attrs"/>
94         <ref name="office-meta"/>
95     </element>
96 </define>

```

The <office:document-settings> root contains application specific settings to be applied when processing this document.

```

97 <define name="office-document-settings">
98     <element name="office:document-settings">
99         <ref name="office-document-common-attrs"/>
100         <ref name="office-settings"/>
101     </element>
102 </define>

```

2.1.2 Document Root Attributes

Version

All root elements take an office:version attribute, which indicates which version of this specification it complies with. The version number is in the format revision.version.
~~AC2~~ Text deleted ~~AC2~~

```

103 <define name="office-document-common-attrs" combine="interleave">
104     <optional>
105         <attribute name="office:version">

```

```

106         <ref name="string"/>
107     </attribute>
108 </optional>
109 </define>

```

MIME Type

The `<office:document>` element takes an `office:mimetype` attribute, which indicates the type of document (text, spreadsheet etc.). This attribute is especially important for flat XML files, where this is the only way the type of document can be detected (in a package, the MIME type is also present in a separate file, see section 17.4). Its values are the MIME types that are used for the packaged variant of office documents (see section 1.7).

```

110 <define name="office-document-attrs" combine="interleave">
111     <attribute name="office:mimetype">
112         <ref name="string"/>
113     </attribute>
114 </define>

```

2.2 Document Metadata

Metadata is general information about a document. In the OpenDocument format, all of the metadata elements are contained in an `<office:meta>` element, usually located at start of the document. Metadata elements may be omitted or occur multiple times. It is application-specific how to update multiple instances of the same elements.

```

115 <define name="office-meta">
116     <optional>
117         <element name="office:meta">
118             <ref name="office-meta-content"/>
119         </element>
120     </optional>
121 </define>
122
123 <define name="office-meta-content">
124     <ref name="anyElements"/>
125 </define>
126
127 <define name="office-meta-content-strict">
128     <zeroOrMore>
129         <ref name="office-meta-data"/>
130     </zeroOrMore>
131 </define>

```

2.2.1 Pre-Defined vs. Custom Metadata

In the OpenDocument schema the metadata is comprised of pre-defined metadata elements, user defined metadata, as well as custom metadata elements. The pre-defined metadata elements have defined semantics. They **should** be processed and updated by editing applications. They can be referenced from within the document through the use of suitable text fields.

User-defined metadata is a more generic mechanism which specifies a triplet of name, type, and value. Supporting applications can present these value to the user, making use of the supplied data type. The user-defined metadata can be referenced from within the document through the use of suitable text fields.

Custom metadata are arbitrary elements inside `<office:meta>`. Since their semantics is not defined in this specification, conforming applications in general cannot process or display this data. Applications **should** preserve this data when editing the document.

2.2.2 Sample Metadata

Example: Sample metadata of a document in OpenDocument format

```
<office:meta>
  <dc:title>Title of the document</dc:title>
  <dc:description>Description/Comment for the document</dc:description>
  <meta:initial-creator>User Name</meta:initial-creator>
  <meta:creation-date>1999-10-18T12:34:56</meta:creation-date>
  <dc:creator>User Name</dc:creator>
  <dc:date>1999-10-19T15:16:17</dc:date>
  <meta:printed-by>User Name</meta:printed-by>
  <meta:print-date>1999-10-20T16:17:18</meta:print-date>
  <dc:subject>Description of the document</dc:subject>
  <meta:editing-duration>PT5H10M10S</meta:editing-duration>
  <meta:keyword>First keyword</meta:keyword>
  <meta:keyword>Second keyword</meta:keyword>
  <meta:keyword>Third keyword</meta:keyword>
  <meta:template xlink:type="simple"
    xlink:href="file:///c:/
office52/share/template/german/finance/budget.vor"
    xlink:title="Template name"
    meta:date="1999-10-15T10:11:12" />
  <meta:auto-reload
    xlink:type="simple"
    xlink:href="file:///..."
    meta:delay="P60S" />
  <dc:language>de-DE</dc:language>
  <meta:user-defined meta:name="Field 1"
    meta:value-type="string">Value 1</meta:user-defined>
  <meta:user-defined meta:name="Field 2"
    meta:value-type="float">1.234</meta:user-defined>
</office:meta>
```

2.3 Body Element and Document Types

The document body contains an element to indicate which type of content this document contains. Currently supported document types are:

- text documents
- drawing documents
- presentation documents
- spreadsheet documents
- chart documents
- image documents

All document types share the same content elements, but different document types place different restrictions on which elements may occur, and in what combinations. The document content is typically framed by a prelude and epilogue, which contain additional information for a specific type of document, like form data or variable declarations.

132

```
<define name="office-body">
```

```

133     <element name="office:body">
134         <ref name="office-body-content"/>
135     </element>
136 </define>

```

2.3.1 Text Documents

The content of text documents mainly consists of a sequence containing any number of paragraphs, tables, indices, text frames, text sections, and graphical elements. Additionally, a text document may contain forms, change tracking information and variable declarations. Each of these is defined in the document prelude, and may be referenced from the document content.

```

137 <define name="office-body-content" combine="choice">
138     <element name="office:text">
139         <ref name="office-text-attlist"/>
140         <ref name="office-text-content-prelude"/>
141         <zeroOrMore>
142             <ref name="office-text-content-main"/>
143         </zeroOrMore>
144         <ref name="office-text-content-epilogue"/>
145     </element>
146 </define>

```

Text Document Content Model

The text document prelude contains the document's form data, change tracking information, and variable declarations. To allow office applications to implement functionality that usually is available in spreadsheets for text documents, it may also contain elements that implement enhanced table features. See also section 2.3.4.

```

147 <define name="office-text-content-prelude">
148     <ref name="office-forms"/>
149     <ref name="text-tracked-changes"/>
150     <ref name="text-decls"/>
151     <ref name="table-decls"/>
152 </define>

```

The main document content contains any sequence of text content elements, which includes paragraphs (and headings), text sections (and indices), tables, and graphical shapes. As an alternative, a text document may contain of a single page sequence.

It is not required that a text document contains a paragraph. A text document may consist of a sequence frames only.

```

153 <define name="office-text-content-main">
154     <choice>
155         <zeroOrMore>
156             <ref name="text-content"/>
157         </zeroOrMore>
158         <group>
159             <ref name="text-page-sequence"/>
160             <zeroOrMore>
161                 <choice>
162                     <ref name="draw-a"/>
163                     <ref name="shape"/>
164                 </choice>
165             </zeroOrMore>
166         </group>
167     </choice>
168 </define>

```

```
170 <define name="text-content">
171   <choice>
172     <ref name="text-h"/>
173     <ref name="text-p"/>
174     <ref name="text-list"/>
175     <ref name="text-numbered-paragraph"/>
176     <ref name="table-table"/>
177     <ref name="draw-a"/>
178     <ref name="text-section"/>
179     <ref name="text-table-of-content"/>
180     <ref name="text-illustration-index"/>
181     <ref name="text-table-index"/>
182     <ref name="text-object-index"/>
183     <ref name="text-user-index"/>
184     <ref name="text-alphabetical-index"/>
185     <ref name="text-bibliography"/>
186     <ref name="shape"/>
187     <ref name="change-marks"/>
188   </choice>
189 </define>
```

There are no text documents specific epilogue elements, but the epilogue may contain elements that implement enhanced table features. See also section 2.3.4.

```
190 <define name="office-text-content-epilogue">
191   <ref name="table-functions"/>
192 </define>
```

Global Text Documents

There is a common use case for large documents to be edited in separate entities, such that there is a 'global' document, containing several linked constituent subdocuments. This can be implemented by using linked text sections (see section 4.4). To facilitate an editing application adapting the user interface to better support the notion of 'global' document with constituent parts (as opposed to a document with arbitrary linked content), the `text:global` flag can be used. If set to `true`, it informs applications that linked sections in this document have part-of semantics. The actual XML representation of the sections does not change.

```
193 <define name="office-text-attlist" combine="interleave">
194   <optional>
195     <attribute name="text:global" a:defaultValue="false">
196       <ref name="boolean"/>
197     </attribute>
198   </optional>
199 </define>
```

2.3.2 Drawing Documents

The content of drawing document consists of a sequence of draw pages.

```
200 <define name="office-body-content" combine="choice">
201   <element name="office:drawing">
202     <ref name="office-drawing-attlist"/>
203     <ref name="office-drawing-content-prelude"/>
204     <ref name="office-drawing-content-main"/>
205     <ref name="office-drawing-content-epilogue"/>
206   </element>
207 </define>
208
209 <define name="office-drawing-attlist">
210   <empty/>
```

211 </define>

Drawing Document Content Model

The drawing document prelude may contain text declarations only. To allow office applications to implement functionality that usually is available in spreadsheets for drawing documents, it may also contain elements that implement enhanced table features. See also section 2.3.4.

212 <define name="office-drawing-content-prelude">
213 <ref name="text-decls"/>
214 <ref name="table-decls"/>
215 </define>

The main document content contains a sequence of draw pages.

216 <define name="office-drawing-content-main">
217 <zeroOrMore>
218 <ref name="draw-page"/>
219 </zeroOrMore>
220 </define>

There are no drawing documents specific epilogue elements, but the epilogue may contain elements that implement enhanced table features. See also section 2.3.4.

221 <define name="office-drawing-content-epilogue">
222 <ref name="table-functions"/>
223 </define>

2.3.3 Presentation Documents

The content of presentation document consists of a sequence of draw pages.

224 <define name="office-body-content" combine="choice">
225 <element name="office:presentation">
226 <ref name="office-presentation-attlist"/>
227 <ref name="office-presentation-content-prelude"/>
228 <ref name="office-presentation-content-main"/>
229 <ref name="office-presentation-content-epilogue"/>
230 </element>
231 </define>
232 <define name="office-presentation-attlist">
233 <empty/>
234 </define>
235

Presentation Document Content Model

The presentation document prelude equals the one of a drawing document, but may contain some additional declarations. See also section 2.3.2.

236 <define name="office-presentation-content-prelude">
237 <ref name="text-decls"/>
238 <ref name="table-decls"/>
239 <ref name="presentation-decls"/>
240 </define>

The main document content contains a sequence of draw pages.

241 <define name="office-presentation-content-main">
242 <zeroOrMore>
243 <ref name="draw-page"/>

244	<code></zeroOrMore></code>
245	<code></define></code>
<p>The epilogue of presentation documents may contain presentation settings. Additionally, it may contain elements that implement enhanced table features. See also section 2.3.4.</p>	
246	<code><define name="office-presentation-content-epilogue"></code>
247	<code> <ref name="presentation-settings"/></code>
248	<code> <ref name="table-functions"/></code>
249	<code></define></code>

2.3.4 Spreadsheet Documents

The content of spreadsheet documents mainly consists of a sequence of tables. Additionally, a spreadsheet document may contain forms, change tracking information and various kinds of declarations that simplify the usage of spreadsheet tables and their analysis. Each of these are contained in either the document prelude, or the document epilogue.

250	<code><define name="office-body-content" combine="choice"></code>
251	<code> <element name="office:spreadsheet"></code>
252	<code> <ref name="office-spreadsheet-attlist"/></code>
253	<code> <ref name="office-spreadsheet-content-prelude"/></code>
254	<code> <ref name="office-spreadsheet-content-main"/></code>
255	<code> <ref name="office-spreadsheet-content-epilogue"/></code>
256	<code> </element></code>
257	<code></define></code>

Spreadsheet Document Content Model

The spreadsheet document prelude contains the document's form data, change tracking information, calculation setting for formulas, validation rules for cell content and declarations for label ranges.

258	<code><define name="office-spreadsheet-content-prelude"></code>
259	<code> <optional></code>
260	<code> <ref name="table-tracked-changes"/></code>
261	<code> </optional></code>
262	<code> <ref name="text-decls"/></code>
263	<code> <ref name="table-decls"/></code>
264	<code></define></code>
265	<code><define name="table-decls"></code>
266	<code> <optional></code>
267	<code> <ref name="table-calculation-settings"/></code>
268	<code> </optional></code>
269	<code> <optional></code>
270	<code> <ref name="table-content-validations"/></code>
271	<code> </optional></code>
272	<code> <optional></code>
273	<code> <ref name="table-label-ranges"/></code>
274	<code> </optional></code>
275	<code></define></code>
276	<code></define></code>

The main document is a list of tables.

277	<code><define name="office-spreadsheet-content-main"></code>
278	<code> <zeroOrMore></code>
279	<code> <ref name="table-table"/></code>
280	<code> </zeroOrMore></code>
281	<code></define></code>