INTERNATIONAL STANDARD

ISO/IEC 26300

First edition
2006-12-01

AMENDMENT 1
2012-03-15

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

AMENDMENT 1: Open Document Format for Office Applications (OpenDocument) v1.1

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

AMENDEMENT 1: Format de document ouvert pour applications de bureau (OpenDocument) v1.1

Reference number
ISO/IEC 26300:2006/Amd.1:2012(E)

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Published in Switzerland

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO/IEC 26300:2006 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 34, *Document description and processing languages*.

This Amendment should be read in conjunction with ISO/IEC 26300:2006 and the associated Technical Corrigenda 1 and 2. The current edition of ISO/IEC 26300 should be understood by first applying the change specified in the Technical Corrigenda, then applying the changes specified in this Amendment.

Notation conventions

The title of each change is the complete reference to the section or sub-section being modified. In all cases (except for an amendment inserting two new Appendices) the title begins with the section or sub-section number, the section or sub-section name, and the page number. In most cases the location of the amendment is more precisely indicated by a paragraph number or other indicator. Paragraph numbers are determined by counting the number of paragraphs from the beginning of the section or sub-section in question, ignoring lists, tables and examples.

In the case of amendments to the normative Relax-NG schema, the lines of the schema that are amended are indicated in italics below the heading. Schema line numbers refer to the *amended* schema. Other guidance on the intended application of an amendment may be given in italics below the heading.

A change can contain any one or more of the following kinds of edits:

Addition of text: New text is displayed in blue and is underlined, as demonstrated here.

Deletion of text: ~~Deleted text is displayed in red and is struck-through, as demonstrated here.~~

An ellipsis '…' is occasionally used to indicate deliberate omission of fragments of the original text that are unchanged by this Amendment and would unreasonably extend the text of this Amendment.

Front matter, p. 1

Open Document Format for Office Applications (OpenDocument) v1.1~~0~~ ~~(Second Edition)~~

~~Committee Specification1, 19 Jul 2006~~OASIS Standard, 1 Feb 2007

~~Document identifier:~~
OpenDocument-v1.1ed2-.odt

~~Location:~~
~~This Version: http://www.oasis-open.org/committees/office~~
~~Previous Version: http://docs.oasis-open.org/office/v1.0~~

Specification URIs

This Version:
http://docs.oasis-open.org/office/v1.1/OS/OpenDocument-v1.1.odt
http://docs.oasis-open.org/office/v1.1/OS/OpenDocument-v1.1.pdf
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Technical Committee:
OASIS Open Document Format for Office Applications (OpenDocument) TC

Chair:
Michael Brauer, Sun Microsystems, Inc.

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

Related Work:
This specification supersedes OASIS OpenDocument v1.0.

Declared XML Namespaces:
A list of XML namespaces declared by this specification is available in section 1.3.

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 membership of OASIS~~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.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at

www.oasis-open.org/committees/office.

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

(www.oasis-open.org/committees/office/ipr.php.

The non-normative errata page for this specification is located at www.oasisopen.org/committees/office.

§ 1.4, "Relax-NG Schema", schema fragment, p. 32

{The following text amends lines 3-4 and 9-10 of the normative Relax-NG schema, as reproduced in this section.}

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
    OASIS OpenDocument v1.10 (Second Edition)
    OASIS Standard, 1 Feb 2007Committee Specification 1, 19 Jul 2006
    Relax-NG Schema

    $Id$

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

§ 1.5, "Document Processing and Conformance", paragraph 7, p. 34

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 defined in~~by~~ the OpenDocument schema. See also appendix D.

§ 2.1.1, "Document Root Element Content Models", paragraph 1, p. 37

{The following text corrects an editorial error in ISO/IEC 26300:2006/Cor 1, in which part of the text of the sentence inserted at the end of the paragraph is missing.}

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. All four subdocument root elements together contain the same information as an `<office:document>` element that contains the same subdocument root elements.

§ 2.1.1, table following paragraph 1, p. 37

{The following text amends the heading of the second column of the table.}

meta-
data

§ 2.3.1, “Text Documents”, sub-section “Text Document Content Model”, schema fragment, p. 42

{The following text inserts a new line (line 179 of the amended schema) in the definition of pattern “text-content” in the normative Relax-NG schema, as reproduced in this section.}

```
<define name="text-content">
    <choice>
        <ref name="text-h"/>
        <ref name="text-p"/>
        <ref name="text-list"/>
        <ref name="text-numbered-paragraph"/>
        <ref name="table-table"/>
        <ref name="draw-a"/>
        <ref name="text-section"/>
        <ref name="text-soft-page-break"/>
        <ref name="text-table-of-content"/>
        <ref name="text-illustration-index"/>
        <ref name="text-table-index"/>
        <ref name="text-object-index"/>
        <ref name="text-user-index"/>
        <ref name="text-alphabetical-index"/>
        <ref name="text-bibliography"/>
        <ref name="shape"/>
        <ref name="change-marks"/>
    </choice>
</define>
```

§ 2.3.1, “Text Documents”, following sub-section “Global Text Documents”, p. 42

{The following text inserts a new sub-section, including reproduction of a new pattern definition “office-text-attlist” inserted into the normative Relax-NG schema (lines 201-207 of the amended schema).}

Use Soft Page Breaks

The `text:use-soft-page-breaks` attribute specifies whether the document contains soft page breaks.

A soft page break is a page break that has been included by a page oriented processor at a position where the document itself does not include a page break (e.g. by using the `fo:break-before` and `fo:break-after` formatting properties described in section 15.5.2).

Soft page breaks are specified by the `<text:soft-page-break>` elements described in sections 4.7 and 5.1.1:Soft Page breaks.

The use of the `<text:soft-page-break>` elements is always optional. An application generating the format **may** include the element if it has computed a paginated layout. A consuming application **may** handle the element while computing the layout, but it **shall not** depend on its existence. Soft page breaks are only supported within text documents.

A generating application that stores soft page breaks **shall** indicate this by setting the `text:use-page-breaks` attribute to `true`. A generating application that does not store soft page breaks **shall** indicate that by omitting this attribute, or by setting it to `false`.

An application that does not support pagination and soft page-breaks, that modifies an OpenDocument file, which includes soft page-breaks, **shall** at least set the `text:use-page-breaks` attribute to `false` (or remove it). It **should** also remove the `<text:soft-page-break>` elements from the document but is not required to do so.

An application that computes a paginated layout of a document **should** provide a facility to turn on export of soft page breaks for the purposes of consistent page breaks and for proper conversion to digital talking book formats (such as [DAISY]).

For `<text:soft-page-break>` elements that appear within table rows, the maximum number of `<text:soft-page-break>` elements that appear within the single table cells determines the number of page breaks that appear within the table row. The `<text:soft-page-break>` elements contained in each cell determine the positions where these page breaks appear within the cell content.

Similarly, `<text:soft-page-break>` elements that appear within text boxes and other content displayed outside the text flow, do not start a new page, but only indicate where the text-box's content breaks between two pages.

```
201 <define name="office-text-attlist" combine="interleave">
202     <optional>
203         <attribute name="text:use-soft-page-breaks" a:defaultValue="false">
204             <ref name="boolean"/>
205         </attribute>
206     </optional>
207 </define>
```

§ 2.5, “Scripts”, paragraph 2, p. 50

Scripts do not imply a scripting language or an object model. A script can for instance operate on the Document Object Model (DOM) composed from the XML representation of a document in OpenDocument format (see [DOM2]), ~~operate on the Document Object Model (DOM) of a document in OpenDocument format~~ or on an application specific API.

§ 3, “Meta Data Elements”, section title, p. 56

{The section title is revised as follows.}

3 Metad ~~D~~ata Elements

§ 3.1.18, “Document Statistics”, schema fragment, pp. 62–63

{The following text moves five lines of the definition of the pattern “office-meta-data” to a new position (lines 771-775 of the amended schema) in the normative Relax-NG schema, as reproduced in this section.}

```
744 <define name="office-meta-data" combine="choice">
745     <element name="meta:document-statistic">
            ...
766         <optional>
767             <attribute name="meta:ole-object-count">
768                 <ref name="nonNegativeInteger"/>
769             </attribute>
770         </optional>
771         <optional>
772             <attribute name="meta:object-count">
773                 <ref name="nonNegativeInteger"/>
774             </attribute>
775         </optional>
```



```
776         <optional>
777             <attribute name="meta:paragraph-count">
778                 <ref name="nonNegativeInteger"/>
779             </attribute>
780         </optional>
            ...
816         <optional>
817             <attribute name="meta:cell-count">
818                 <ref name="nonNegativeInteger"/>
819             </attribute>
820         </optional>
            <optional>
                <attribute name="meta:object-count">
                    <ref name="nonNegativeInteger"/>
                </attribute>
            </optional>
821     </element>
822 </define>
```

§ 4.3.2, “List Item”, paragraph 1, p. 71

List items contain the textual content of a list. A `<text:list-item>` element can contain paragraphs, headings, lists or soft page breaks. A list item cannot contain ~~or lists. A list item cannot contain headings or~~ tables.

§ 4.3.2, “List Item”, pp. 71-72

{The following text inserts a new line in the definition of the pattern “text-list-item-content” (line 994 of the amended schema) in the normative Relax-NG schema, as reproduced in this section.}

```
979 <define name="text-list-item">
980     <element name="text:list-item">
981         <ref name="text-list-item-attr"/>
982         <ref name="text-list-item-content"/>
983     </element>
984 </define>
985 <define name="text-list-item-content">
986     <optional>
987         <ref name="text-number"/>
988     </optional>
989     <zeroOrMore>
990         <choice>
991             <ref name="text-p"/>
992             <ref name="text-h"/>
993             <ref name="text-list"/>
994             <ref name="text-soft-page-break"/>
995         </choice>
996     </zeroOrMore>
997 </define>
```

§ 4.3.2, “List Item”, sub-section “Formatted number”, example, p. 72

```
<text:list text:style-name="List 1">
    <text:list-item>
    <text:p>This is the first list item</text:p>
    <text:p>This is a continuation of the first list item.</text:p>
    </text:list-item>
    <text:list-item>
    <text:p>This is the second list item.
            It contains a sub list.</text:p>
```

```
    <text:list>
        <text:list-item><text:p>This is a sub list item.</text:p>
        </text:list-item>
        <text:list-item><text:p>This is a sub list item.</text:p>
        </text:list-item>
        <text:list-item><text:p>This is a sub list item.</text:p>
        </text:list-item>
    </text:list>
    </text:list-item>
    <text:list-item>
    <text:p>This is the third list item</text:p>
    </text:list-item>
</text:list>
```

§ 4.4.3, “DDE Source”, following paragraph 1, p. 77

{The following text inserts a new paragraph following existing paragraph 1 and preceding the schema fragment.}

See section 12.6 for the use of DDE connections.

§ 4.6.4, “Deletion”, second bulleted list, p. 80

- If the change mark is inside a paragraph, insert the text content of the <text:deletion> element as if the beginning <text:p> and final </text:p> tags were missing.
- If the change mark is inside a header, proceed as above, except adapt the end tags to matchinserted tags to math their new counterparts.
- Otherwise, simply copy the text content of the <text:deletion> element in place of the change mark.

§ 4.6.4, “Deletion”, example, pp. 80-81

Example: Given the following change:

...

This becomes:

```
<text:p>abcdef</text:p>
<text:p>Hello</text:p><text:h>Hello</text:h>
<text:p>World!</text:p><text:h>World!</text:h>
<text:p>ghijkl</text:p>
```

If, in the first two cases, the deletion contains complete paragraphs, then additional empty paragraphs must be put into the <text:deletion> element to achieve the desired result.

...

would be represented as:

```
<text:changed-region text:id="example">
    <text:deletion>
        <office:change-info>...</office:change-info>
        <text:p/>
        <text:h>Hello</text:h><text:p>Hello</text:p>
        <text:h>World!</text:h><text:p>World!</text:p>
        <text:p/>
    </text:deletion>
</text:changed-region>
```


New section following § 4.6 “Change Tracking”, p. 82

{The following text inserts a new sub-section, including reproduction of a new pattern definition “text-soft-page-break” (lines 1199-1203 of the amended schema) inserted into the normative Relax-NG schema.}

4.7 Soft Page Break

The <text:soft-page-break> element represents a soft page break.

See section 2.3.1:Use Soft Page Breaks for details regarding soft page breaks.

```
1199 <define name="text-soft-page-break">
1200     <element name="text:soft-page-break">
1201         <empty/>
1202     </element>
1203 </define>
```

§ 5.1.1, “White-space Characters”, paragraphs 1-3, p. 84

{The following text amends paragraphs 1 and 3 and inserts a new paragraph following existing paragraph 3.}

If the paragraph element or any of its child elements contains white-space characters, they are collapsed. Leading white-space characters at the paragraph start as well as trailing white-space characters at the paragraph end are ignored. In detail, the following conversions take place, ~~in other words they are processed in the same way that [HTML4] processes them. The following [UNICODE] characters are normalized to a SPACE character~~:

The following [UNICODE] characters are normalized to a SPACE character:

- HORIZONTAL TABULATION (0x0009)
- CARRIAGE RETURN (0x000D)
- LINE FEED (0x000A)
- SPACE (0x0020)

In addition, these characters are ignored if the preceding character is a white-space character. The preceding character can be contained in the same element, in the parent element, or in the preceding sibling element, as long as it is contained within the same paragraph element and the element in which it is contained processes white-space characters as described above. White-space characters at the start or end of the paragraph are ignored, regardless whether they are contained in the paragraph element itself, or in a child element in which white-space characters are collapsed as described above.

These white-space processing rules shall enable authors to use white-space characters to improve the readability of the XML source of an OpenDocument document in the same way as they can use them in HTML.

§ 5.1.1, “White-space Characters”, following sub-section “Line Breaks”, p. 86

{The following text inserts a new sub-section, including reproduction of a new pattern definition “paragraph-content” (lines 1266-1268 of the amended schema) inserted into the normative Relax-NG schema.}

Soft Page Break

The <text:soft-page-break> element represents a soft page break within a heading or paragraph.

See section 2.3.1:Use Soft Page Breaks for details regarding soft page breaks.

```
<define name="paragraph-content" combine="choice">
    <ref name="text-soft-page-break"/>
</define>
```

§ 5.1.4, “Hyperlinks”, paragraph 3, p. 87

The attributes that may be associated with the <text:a> element are:

- Name
- Title
- Link location
- Target frame
- Text styles

§ 5.1.4, “Hyperlinks”, following sub-section “Name”, p. 87

{The following text inserts a new sub-section, including reproduction of a new pattern definition 'text-a-attlist' (lines 1304-1310 of the amended schema) inserted into the normative Relax-NG schema.}

Title

The office:title attribute specifies a short accessible description for hint text.

See appendix E for guidelines how to use this attribute.

```
<define name="text-a-attlist" combine="interleave">
    <optional>
        <attribute name="office:title">
            <ref name="string"/>
        </attribute>
    </optional>
</define>
```

§ 6.4.14, “Document Modification Time”, paragraph 2, p. 120

This element displays the information from the <dc~~meta~~:date> element. The name was chosen to avoid confusion with <text:date> fields.

§ 6.4.15, “Document Modification Date”, paragraph 2, p. 121

This element displays the information from the <dc~~meta~~:date> element. The name was chosen to avoid confusion with <text:date> fields.

§ 6.6.9, “DDE Connection Fields”, following paragraph 2, p. 137

{The following text inserts a new paragraph following paragraph 2.}

See section 12.6 for the use of DDE connections.

§ 6.7.6, “Formula”, paragraph 2, p. 143

The formula should start with a namespace prefix that indicates the syntax and semantic used within the formula.

§ 8.1, “Basic Table Model”, paragraph 3, p. 178

{The following text creates a new paragraph by inserting a paragraph break in the existing paragraph.}

Table rows may be empty, and different rows might contain a different number of table cells. This is not an error, but applications might resolve this in different ways. Spreadsheet applications typically operate on large tables that have a fixed application dependent row and column number, but may have an unused area. Only the used area of the table is saved in files. When loading a table with empty or incomplete rows into a spreadsheet application, empty rows typically introduce a default row (just as in an empty sheet), and incomplete rows are filled with empty cells (just like in an empty sheet).

All other applications typically have fixed size tables. Incomplete rows are basically rendered as if they had the necessary number of empty cells, and the same applies to empty rows. Empty cells typically occupy the space of an empty paragraph.

§ 8.1.1, “Table Element”, schema fragment preceding sub-section “Table Name”, p. 180

{The following text inserts three new lines in the definition of the pattern “table-rows” (lines 3579-3581 of the amended schema) into the normative Relax-NG schema as reproduced in this section.}

```
3575 <define name="table-rows">
3576     <choice>
3577         <ref name="table-table-rows"/>
3578         <oneOrMore>
3579             <optional>
3580                 <ref name="text-soft-page-break"/>
3581             </optional>
3582             <ref name="table-table-row"/>
3583         </oneOrMore>
3584     </choice>
3585 </define>
```

§ 8.1.1, “Table Element”, following sub-section “Print Ranges”, p. 181

{The following text inserts a new sub-section.}

Soft Page Breaks

The `<text:soft-page-break>` element represents a soft page break between two table rows. It may appear in front of `<table:table-row>` elements.

See section 2.3.1:Use Soft Page Breaks for details regarding soft page breaks.

§ 8.1.2, “Table Row”, sub-section “Default Cell Style”, paragraph 1, p. 182

The `table:default-cell-style-name` attribute specifies a default cell style. Cells contained in the row that don't have a `table:style-name` attribute use this~~without an individual cell style use these~~ default cell style.

§ 8.1.2, “Table Row”, sub-section “Default Cell Style”, following paragraph 1, p. 182

{The following text inserts a new paragraph.}

The attribute is applied to cells that are defined by a `<table:table-cell>` element. It is typically not applied to table cells that spreadsheet application may display in addition to those defined in the document.

§ 8.1.3, “Table Cell”, paragraph 2, p. 184

The `<table:table-cell>` element is very similar to the table cell elements of [XSL] and [HTML4], and the rules regarding cells that span several columns or rows that exist in HTML and XSL apply to the OpenDocument specification as well. This means that there are no `<table:table-cell>` elements in the row/column grid for positions that are covered by a merged cell, that is, that are covered by a cell that spans several columns or rows. The `<table:covered-table-cell>` element exists to be able to specify cells for such positions . It has to appear wherever a position in the row/column grid is covered by a cell that spans several rows or columns. Its position in the grid is calculated by a assuming a column and row span of 1 for all cells regardless whether they are specified by a `<table:table-cell>` or a `<table:covered-table-cell>` element. The `<table:covered-table-cell>` is especially used by spreadsheet applications, where it is a common use case that a covered cell contains content.

§ 8.1.3, “Table Cell”, sub-section “Cell Content Validation”, paragraph 1, p. 185

The `table:content-validation-name` attribute specifies if a cell contains a validity check. The value of this attribute is the name of a `<table:~~cell-~~content-validation>` element. If the attribute is not present, the cell may have arbitrary content.

§ 8.1.3, “Table Cell”, sub-section “Cell Content Validation”, paragraph 2, p. 186

See section 8.5.3 for more information on cell content validation and the `<table:~~cell-~~content-validation>` element.

§ 8.2.1, “Column Description”, sub-section “Default Cell Style”, paragraph 1, p. 190

The `table:default-cell-style-name` attribute specifies the default cell style. Cells that don't have a `table:style-name` attribute~~without a style~~ use this style when there is no default cell style specified for the cell's row as well.

§ 8.2.1, “Column Description”, sub-section “Default Cell Style”, following paragraph 1, p. 190

{The following text inserts a new paragraph.}

The attribute is applied to cells that are defined by a <table:table-cell> element. It is typically not applied to table cells that spreadsheet application may display in addition to those defined in the document.

§ 8.2.2, “Header Columns”, preceding paragraph 1, p. 190

{The following text inserts a new paragraph at the start of the section.}

For accessibility purposes, header information is needed. Therefore, any columns designated as headers by the author must be tagged as such by encapsulating them within a <table:table-header-columns> element. Using style information only to designate header columns is insufficient.

§ 8.2.2, “Header Columns”, paragraph 1, p. 190

If a table does not fit on a single page, ~~a set of adjacent table columns can be automatically repeated on every page. To do so, their columns descriptions have to be included in a <table:table-header-columns> element. Descriptions of columns that shall not be repeated on every page can be included into a <table:table-columns> element, but don't have to.~~ table columns that are included in a <table:table-header-columns> element are automatically repeated on every page. A table must not contain more than one <table:table-header-columns> element, and a <table:table-columns> must not follow another <table:table-columns> element~~.~~ ~~T~~, with the only exception ~~are~~of tables that contain grouped columns (see 8.2.3). Such tables may contain more than one <table:table-header-columns> element, provided that they are contained in different column groups and the columns contained in the elements are adjacent.

§ 8.2.4, “Header Rows”, preceding paragraph 1, p. 191

{The following text inserts a new paragraph at the start of the section.}

For accessibility purposes, header information is needed. Therefore, any rows designated as headers by the author must be tagged as such by encapsulating them within a <table:table-header-rows> element. Using style information only to designate header rows is insufficient.

§ 8.2.4, “Header Rows”, paragraph 1, p. 191

If a table does not fit on a single page, ~~a set of adjacent table rows can be automatically repeated on every page. To do so, their row elements have to be included in a <table:table-headerrows> element. Rows that shall not be repeated on every page can be included into a <table:table-rows> element, but don't have to. A table must not contain more than one <table:table-header-rows> element, and a <table:table-rows> must not follow another <table:table-rows> element. The only exception are tables~~table rows that are included in a <table:table-header-rows> element are automatically repeated on every page. A table must not contain more than one <table:table-header-rows> element. The one exception to this is a table that contains grouped rows (see 8.2.5). Such a table~~s~~ may contain more than one <table:table-header-rows> element, provided that they are contained in different row groups and the rows contained in the elements are adjacent.

§ 8.2.4, “Header Rows”, schema fragment, p. 192

{The following text inserts three new lines in each of the definitions of the patterns “table-table-header-rows” and “table-table-rows” (lines 3831-3833 and 3842-3844 of the amended schema) into the normative Relax-NG schema as reproduced in this section.}

```
<define name="table-table-header-rows">
    <element name="table:table-header-rows">
        <oneOrMore>
            <optional>
                <ref name="text-soft-page-break"/>
            </optional>
            <ref name="table-table-row"/>
        </oneOrMore>
    </element>
</define>

<define name="table-table-rows">
    <element name="table:table-rows">
        <oneOrMore>
            <optional>
                <ref name="text-soft-page-break"/>
            </optional>
            <ref name="table-table-row"/>
        </oneOrMore>
    </element>
</define>
```

§ 8.2.6, “Subtables”, Samples 1 and 2, p. 193

In the OpenDocument schema, this table can be represented in either of the ways detailed in Sample 1 and Sample 2.

A1	*B1*	*C1*
A2	.B2.A1~~1.1~~	.B2.B1~~2.1~~
	.B2.A2~~2.1~~	

Sample 1

Using cells that span several rows, the table is specified as follows:

```
<style:style style:name="Table 1" style:family="table">
    <style:table-properties style:width="12cm"
                            fo:background-color="light-grey"/>
</style:style>
...
...
<table:table table:name="Table 1" table:style-name="Table 1">
    ...
    <table:table-rows>
        <table:table-row>
            <table:table-cell table:number-rows-spanned="2"
                table:style-name="Cell1">
                <text:p text:style="Table Body">
                    A2
                </text:p>
            </table:table-cell>
            <table:table-cell>
                <text:p text:style="Table Body">
                    .B2.A1~~1.1~~
                </text:p>
            </table:table-cell>
            <table:table-cell>
                <text:p text:style="Table Body">
                    .B2.B1~~2.1~~
```



```
                </text:p>
            </table:table-cell>
        </table:table-row>
        <table:table-row>
            <table:covered-table-cell/>
            <table:table-cell table:number-columns-spanned="2">
                <text:p text:style="Table Body">
                .B2.A2~~1.2~~
            </text:p>
            </table:table-cell>
            <table:covered-table-cell/>
        </table:table-row>
    </table:table-rows>
</table:table>
```

Sample 2

Using sub tables, the table is specified as follows:

```
<style:style style:name="Table 1" style:family="table">
    <style:table-properties fo:width="12cm" fo:background-color="light-grey"/>
</style:style>
...

<table:table table:name="Table 1" table:style-name="Table 1">
    ...
    <table:table-rows>
        <table:table-row>
            <table:table-cell table:style-name="Cell1">
                <text:p text:style="Table Body">
                    A2
                </text:p>
            </table:table-cell>
            <table:table-cell table:number-columns-spanned="2">
                <table:table is-subtable="true">
                    <table:table-columns>
                        <table:table-column table:style-name="Col2"/>
                        <table:table-column table:style-name="Col3"/>
                    </table:table-columns>
                    <table:rows>
                        <table:row>
                            <table:table-cell>
                                <text:p text:style="Table Body">
                                    .B2.A1~~1.1~~
                                </text:p>
                            </table:table-cell>
                            <table:table-cell>
                                <text:p text:style="Table Body">
                                    .B2.B1~~2.1~~
                                </text:p>
                            </table:table-cell>
                        </table:table-row>
                        <table:table-row>
                            <table:table-cell
                                table:number-columns-spanned="2">
                                <text:p text:style="Table Body">
                                    .B2.A2~~1.2~~
                                </text:p>
                            </table:table-cell>
                            <table:covered-table-cell/>
                        </table:table-row>
                    </table:table-rows>
                </table:table>
            </table:table-cell>
            <table:covered-table-cell/>
        </table:table-row>
    </table:table-rows>
</table:table>
```

§ 8.3.1, “Referencing Table Cells”, paragraph 5, p. 196

For example, to reference the cell in column 1 and row 1 in a subtable that is called `Subtable`, and that is in column 34 and row 16 of the table `SampleTable`, the address is `SampleTable.AH16.A1`.

If the name of the table contains blanks, dots (.) or apostrophes ('), the name must~~should~~ be quoted with apostrophes ('). Any apostrophes in the name must be escaped by doubling (''').

§ 8.3.1, “Referencing Table Cells”, following paragraph 5, p. 196

{The following text inserts a new paragraph.}

E.g. `'Tom''s Table'.A1` for the cell A1 in the table named Tom's Table.

§ 8.3.1, “Referencing Table Cells”, sub-section “Absolute and relative cell addressing”, schema fragment, p. 197

{The following text amends one line of the definition of the pattern “cellAddress” (line 3871 of the amended schema) into the normative Relax-NG schema as reproduced in this section.}

```
<define name="cellAddress">
    <data type="string">
        <param name="pattern">($?([^\. ']+|'([^']|'')+'))?\.$?[A-Z]+$?[0-
9]+</param>
    </data>
</define>
```

§ 8.3.1, “Referencing Table Cells”, sub-section “Cell Range Address”, schema fragment, p. 197

{The following text amends one line of the definition of the pattern “cellRangeAddress” (line 3877 of the amended schema) into the normative Relax-NG schema as reproduced in this section.}

```
<define name="cellRangeAddress">
    <data type="string">
        <param name="pattern">($?([^\. ']+|'([^']|'')+'))?\.$?[A-Z]+$?[0-9]+(:
($?([^\. ']+|'([^']|'')+'))?\.$?[A-Z]+$?[0-9]+)?</param>
    </data>
</define>
```

§ 8.5.2, “Calculation Settings”, sub-section “Null Date”, schema fragment, p. 209

{The following text amends one line of the definition of the pattern “table-null-date” (line 4185 of the amended schema) into the normative Relax-NG schema as reproduced in this section.}

```
<define name="table-null-date">
    <element name="table:null-date">
        <optional>
            <attribute name="table:value-type" a:defaultValue="date">
                <ref name="valueType"/>
            </attribute>
        </optional>
        <optional>
```



```
            <attribute name="table:date-value~~-type~~"
                       a:defaultValue="1899-12-30">
                <ref name="date"/>
            </attribute>
        </optional>
        <empty/>
    </element>
</define>
```

§ 8.10, “DDE Links”, following paragraph 1, p. 254

{The following text inserts a new paragraph.}

See section 12.6 for the use of DDE connections.

§ 9.1.3, “Layer”, schema fragment, p. 269

{The following text replaces one line with six new lines in the definition of the pattern “draw-layer” (lines 5858-5863 of the amended schema) into the normative Relax-NG schema as reproduced in this section.}

```
<define name="draw-layer">
    <element name="draw:layer">
        <ref name="draw-layer-attlist"/>
        ~~<empty/>~~
        <optional>
            <ref name="svg-title"/>
        </optional>
        <optional>
            <ref name="svg-desc"/>
        </optional>
    </element>
</define>
```

§ 9.1.3, “Layer”, following schema fragment, p. 269

{The following text inserts a new paragraph.}

The <draw:layer> element may contain the following elements:

- Title (short accessible name). Use the <svg:title> child element as described in section 9.2.20.
- Long description (in support of accessibility). Use the <svg:desc> child element as described in section 9.2.20.

§ 9.1.4, “Drawing Pages”, sub-section “ID”, schema fragment, p. 272

{The following text amends one line (line 5958 of the amended schema) in the definition of pattern “draw-page-attlist” in the normative Relax-NG schema, as reproduced in this section.}

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

§ 9.1.4, “Drawing Pages”, following sub-section “ID”, p. 272

{The following text inserts a new sub-section, including reproduction of a new pattern definition “draw-page-attlist” (lines 5965-5971 of the amended schema) inserted into the normative Relax-NG schema.}

Navigation Order

The `draw:nav-order` attribute defines a logical navigation sequence for the graphical elements included in the page. Its value is a sequence of unique IDREFs. If this optional attribute is present, it must include all graphic elements not contained within a `<draw:g>` element. This attribute should reflect the intentional ordering of graphics as set by the document author.

```
5965 <define name="draw-page-attlist" combine="interleave">
5966     <optional>
5967         <attribute name="draw:nav-order">
5968             <ref name="IDREFS"/>
5969         </attribute>
5970     </optional>
5971 </define>
```

§ 9.2.1, “Rectangle”, schema fragment, p. 274

{The following text inserts seven new lines in the definition of the pattern “draw-rect” (lines 5999-6005 of the amended schema) in the Relax-NG normative schema}

```
5993 <define name="draw-rect">
5994     <element name="draw:rect">
5995         <ref name="draw-rect-attlist"/>
5996         <ref name="common-draw-position-attlist"/>
5997         <ref name="common-draw-size-attlist"/>
5998         <ref name="common-draw-shape-with-text-and-styles-attlist"/>
5999         <ref name="common-draw-caption-id-attlist"/>
6000         <optional>
6001             <ref name="svg-title"/>
6002         </optional>
6003         <optional>
6004             <ref name="svg-desc"/>
6005         </optional>
6006         <optional>
6007             <ref name="office-event-listeners"/>
6008         </optional>
6009         <zeroOrMore>
6010             <ref name="draw-glue-point"/>
6011         </zeroOrMore>
6012         <ref name="draw-text"/>
6013     </element>
6014 </define>
```

§ 9.2.1, “Rectangle”, paragraph 2, p. 274

The attributes that may be associated with the `<draw:rect>` element are:

- Position, Size, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15.
- Text anchor, table background, draw end position – see section 9.2.16.
- Round corners

§ 9.2.1, “Rectangle”, following paragraph 2, p. 274

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:rect>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.2, “Line”, schema fragment, pp. 274–275

{The following text inserts seven new lines in the definition of the pattern “draw-line” (lines 6026-6032 of the amended schema) in the Relax-NG normative schema}

```
<define name="draw-line">
    <element name="draw:line">
        <ref name="draw-line-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>
```

§ 9.2.2, “Line”, paragraph 2, p. 275

The attributes that may be associated with the `<draw:line>` element are:

- Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15.
- Text anchor, table background, draw end position– see section 9.2.16.
- Start point
- End point

§ 9.2.2, “Line”, following paragraph 2, p. 275

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:line>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.3, “Polyline”, schema fragment, p. 275

{The following text inserts seven new lines in the definition of the pattern “draw-polyline” (lines 6065-6071 of the amended schema) in the Relax-NG normative schema}

```
<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>
```

§ 9.2.3, “Polyline”, paragraph 2, p. 276

The attributes that may be associated with the `<draw:polyline>` element are:

- Position, Size, View box, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16
- Points

§ 9.2.3, “Polyline”, following paragraph 2, p. 276

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:polyline>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.3, “Points”, paragraph 1, p. 276

The ~~svg~~draw:points attribute stores a sequence of points, which are connected by straight lines. Each point consists of two coordinates. The coordinates are separated by a comma and the points are separated by white spaces.

§ 9.2.4, “Polygon”, schema fragment, p. 276

{The following text inserts seven new lines in the definition of the pattern “draw-polygon” (lines 6093-6099 of the amended schema) in the Relax-NG normative schema}

```
<define name="draw-polygon">
    <element name="draw:polygon">
        <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>
```

§ 9.2.4, “Polygon”, paragraph 2, p. 276

The attributes that may be associated with the `<draw:polygon>` element are:

- Position, Size, View box, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16
- Points – see section 9.2.3

§ 9.2.4, “Polygon”, following paragraph 2, p. 276

{The following text inserts a new paragraph.}

The elements that may be contained in the <draw:polygon> element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.5, “Regular Polygon”, schema fragment, pp. 276–277

{The following text inserts seven new lines in the definition of the pattern “draw-regular-polygon” (lines 6115-6121 of the amended schema) in the Relax-NG normative schema}

```
<define name="draw-regular-polygon">
    <element name="draw:regular-polygon">
        <ref name="draw-regular-polygon-attlist"/>
        <ref name="common-draw-position-attlist"/>
        <ref name="common-draw-size-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>
```

§ 9.2.5, “Regular Polygon”, paragraph 2, p. 277

The attributes that may be associated with the <draw:regular-polygon> element are:

- Position, Size, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16
- Concave
- Corners
- Sharpness

§ 9.2.5, “Regular Polygon”, following paragraph 2, p. 277

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:regular-polygon>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.6, “Path”, schema fragment, p. 278

{The following text inserts seven new lines in the definition of the pattern “draw-path” (lines 6161-6167 of the amended schema) in the Relax-NG normative schema}

```
6154 <define name="draw-path">
6155     <element name="draw:path">
6156         <ref name="common-draw-path-data-attlist"/>
6157         <ref name="common-draw-position-attlist"/>
6158         <ref name="common-draw-size-attlist"/>
6159         <ref name="common-draw-viewbox-attlist"/>
6160         <ref name="common-draw-shape-with-text-and-styles-attlist"/>
6161         <ref name="common-draw-caption-id-attlist"/>
6162         <optional>
6163             <ref name="svg-title"/>
6164         </optional>
6165         <optional>
6166             <ref name="svg-desc"/>
6167         </optional>
6168         <optional>
6169             <ref name="office-event-listeners"/>
6170         </optional>
6171         <zeroOrMore>
6172             <ref name="draw-glue-point"/>
6173         </zeroOrMore>
6174         <ref name="draw-text"/>
6175     </element>
6176 </define>
```

§ 9.2.6, “Path”, paragraph 2, p. 278

The attributes that may be associated with the `<draw:path>` element are:

- Position, Size, View box, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16
- Path data

§ 9.2.6, “Path”, following paragraph 2, p. 278

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:path>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.7, “Circle”, schema fragment, p. 279

{The following text inserts seven new lines in the definition of the pattern “draw-circle” (lines 6189-6195 of the amended schema) in the Relax-NG normative schema}

```
<define name="draw-circle">
    <element name="draw:circle">
        <ref name="draw-circle-attlist"/>
        <ref name="common-draw-circle-ellipse-attlist"/>
        <ref name="common-draw-position-attlist"/>
        <ref name="common-draw-size-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>
```

§ 9.2.7, “Circle”, paragraph 2, p. 279

The attributes that may be associated with the `<draw:circle>` element are:

- Position, Size, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16
- Center point
- Radius
- Kind
- Start angle
- End angle

§ 9.2.7, “Circle”, following paragraph 2, p. 279

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:circle>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.8, “Ellipse”, schema fragment, p. 281

{The following text inserts seven new lines in the definition of the pattern “draw-ellipse” (lines 6255-6261 of the amended schema) in the Relax-NG normative schema}

```
<define name="draw-ellipse">
    <element name="draw:ellipse">
        <ref name="common-draw-circle-ellipse-attlist"/>
        <ref name="draw-ellipse-attlist"/>
        <ref name="common-draw-position-attlist"/>
        <ref name="common-draw-size-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>
```

§ 9.2.8, “Ellipse”, paragraph 2, p. 281

The attributes that may be associated with the `<draw:ellipse>` element are:

- Position, Size, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16
- Center point, Kind, Start angle, End angle – see section 9.2.7
- Radius

§ 9.2.8, “Ellipse”, following paragraph 2, p. 281

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:ellipse>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.9, “Connector”, schema fragment, p. 282

{The following text inserts seven new lines in the definition of the pattern “draw-connector” (lines 6285-6291 of the amended schema) in the Relax-NG normative schema}

```
<define name="draw-connector">
    <element name="draw:connector">
        <ref name="draw-connector-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>
```

§ 9.2.9, “Connector”, paragraph 2, p. 282

The attributes that may be associated with the `<draw:connector>` element are:

- Style, Layer, Z-Index, ID and Caption ID – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16
- Type
- Start position
- Start shape
- Start glue point
- End position

- End shape
- End glue point
- Line skew

§ 9.2.9, “Connector”, following paragraph 2, p. 282

{The following text inserts a new paragraph.}

The elements that may be contained in the <draw:connector> element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.10, “Caption”, schema fragment, p. 285

{The following text inserts seven new lines in the definition of the pattern “draw-caption” (lines 6382-6388 of the amended schema) in the Relax-NG normative schema}

```
<define name="draw-caption">
    <element name="draw:caption">
        <ref name="draw-caption-attlist"/>
        <ref name="common-draw-position-attlist"/>
        <ref name="common-draw-size-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>
```

§ 9.2.10, “Caption”, paragraph 2, p. 285

The attributes that may be associated with the <draw:caption> element are:

- Position, Size, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16

- Caption point
- Round corners

§ 9.2.10, “Caption”, following paragraph 2, p. 285

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:caption>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.11, “Measure”, schema fragment, p. 286

{The following text inserts seven new lines in the definition of the pattern “draw-measure” (lines 6419-6425 of the amended schema) in the Relax-NG normative schema}

```
<define name="draw-measure">
    <element name="draw:measure">
        <ref name="draw-measure-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>
```

§ 9.2.11, “Measure”, paragraph 2, p. 286

The attributes that may be associated with the `<draw:measure>` element are:

- Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16
- Start position
- End position

§ 9.2.11, “Measure”, following paragraph 2, p. 286

{The following text inserts a new paragraph.}

The elements that may be contained in the <draw:measure> element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.

§ 9.2.12, “Control”, schema fragment, p. 287

{The following text inserts seven new lines in the definition of the pattern “draw-control” (lines 6457-6463 of the amended schema) in the Relax-NG normative schema}

```
<define name="draw-control">
    <element name="draw:control">
        <ref name="draw-control-attlist"/>
        <ref name="common-draw-position-attlist"/>
        <ref name="common-draw-size-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>
        <zeroOrMore>
            <ref name="draw-glue-point"/>
        </zeroOrMore>
    </element>
</define>
```

§ 9.2.12, “Control”, paragraph 2, p. 287

The attributes that may be associated with the <draw:control> element are:

- Position, Size, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15.
- Text anchor, table background, draw end position – see section 9.2.16
- Control

§ 9.2.12, “Control”, following paragraph 2, p. 287

{The following text inserts a new paragraph.}

The elements that may be contained in the <draw:control> element are:

- Title (short accessible name) – see section 9.2.20.

- Long description (in support of accessibility) – see section 9.2.20.
- Glue points – see section 9.2.19.

§ 9.2.13, “Page Thumbnail”, schema fragment, p. 287

{The following text inserts seven new lines in the definition of the pattern “draw-page-thumbnail” (lines 6481-6487 of the amended schema) in the Relax-NG normative schema}

```
<define name="draw-page-thumbnail">
    <element name="draw:page-thumbnail">
        <ref name="draw-page-thumbnail-attlist"/>
        <ref name="common-draw-position-attlist"/>
        <ref name="common-draw-size-attlist"/>
        <ref name="presentation-shape-attlist"/>
        <ref name="common-draw-shape-with-styles-attlist"/>
        <ref name="common-draw-caption-id-attlist"/>
        <optional>
            <ref name="svg-title"/>
        </optional>
        <optional>
            <ref name="svg-desc"/>
        </optional>
        <empty/>
    </element>
</define>
```

§ 9.2.13, “Page Thumbnail”, paragraph 2, p. 288

The attributes that may be associated with the `<draw:page-thumbnail>` element are:

- Position, Size, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15.
- Text anchor, table background, draw end position – see section 9.2.16
- Presentation class – see section 9.6.1:Class
- Page number

§ 9.2.13, “Page Thumbnail”, following paragraph 2, p. 288

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:page-thumbnail>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.

§ 9.2.14, “Grouping”, schema fragment, p. 288

{The following text inserts seven new lines in the definition of the pattern “draw-g” (lines 6505-6511 of the amended schema) in the Relax-NG normative schema}


```
<define name="draw-g">
    <element name="draw:g">
        <ref name="draw-g-attlist"/>
        <ref name="common-draw-z-index-attlist"/>
        <ref name="common-draw-name-attlist"/>
        <ref name="common-draw-id-attlist"/>
        <ref name="common-draw-style-name-attlist"/>
        <ref name="common-text-spreadsheet-shape-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>
        <zeroOrMore>
            <ref name="shape"/>
        </zeroOrMore>
    </element>
</define>
```

§ 9.2.14, “Grouping”, paragraph 2, p. 288

The attributes that may be associated with the `<draw:g>` element are:

- Style, Z-Index, ID and Caption ID – see section 9.2.15.
- Text anchor, table background, draw end position – see section 9.2.16
- Position

§ 9.2.14, “Grouping”, following paragraph 2, p. 288

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:g>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Drawing shapes.

§ 9.2.15, “Common Drawing Shape Attributes”, following sub-section “Name”, p. 289

{The following text inserts a new sub-section “Caption-ID”, including reproduction of a new pattern definition “common-draw-caption-id-attlist” (lines 6537-6543 of the amended schema) inserted into the normative Relax-NG schema.}

Caption-ID

The `draw:caption-id` attribute establishes a relationship between a drawing objects and its caption. It takes a value of type IDREF. The value for `draw:caption-id` attribute is the target ID assigned to the `<draw:text-box>` (see section 9.3.1) used to represent the corresponding caption.

When a caption is assigned by a user agent, an id must be assigned to the element containing the text used to caption a drawing element. The drawing element being captioned must then be assigned the `draw:caption-id` attribute with an IDREF equivalent to the id `<draw:text-box>` containing the captioning text, thus establishing a relationship between the captioned text and the object captioned as needed for accessibility. Removing the caption should result in removing the `draw:caption-id` attribute of the object that was being captioned.

If the user agent supports a platform which provides a `draw:caption-id` relationship in its accessibility API, this relationship for captions should be used to fulfill the relationship.

See appendix E for guidelines how to use this attribute.

```
6537 <define name="common-draw-caption-id-attlist" combine="interleave">
6538     <optional>
6539         <attribute name="draw:caption-id">
6540             <ref name="IDREF"/>
6541         </attribute>
6542     </optional>
6543 </define>
```

§ 9.2.19, “Glue points”, sub-section “Align”, schema fragment, pp. 296–297

{The following text inserts two lines (lines 6736 and 6749 of the amended schema) into the normative Relax-NG schema, as reproduced in this section.}

```
6735 <define name="draw-glue-point-attlist" combine="interleave">
6736     <optional>
6737         <attribute name="draw:align">
6738             <choice>
6739                 <value>top-left</value>
6740                 <value>top</value>
6741                 <value>top-right</value>
6742                 <value>left</value>
6743                 <value>center</value>
6744                 <value>right</value>
6745                 <value>bottom-left</value>
6746                 <value>bottom-right</value>
6747             </choice>
6748         </attribute>
6749     </optional>
6750 </define>
```


§ 9.2 “Drawing Shapes”, new sub-section following § 9.2.19 “Glue Points”, p. 297

{The following text inserts a new sub-section, including reproduction of new pattern definitions “svg-title” and “svg-desc” (lines 6764-6773 of the amended schema) inserted into the normative Relax-NG schema.}

9.2.20 Title and Description

The <svg:title> and <svg:desc> elements specify text-only description strings for graphical objects as specified in § 5.4 of [SVG].

The <svg:title> element is used as a short accessible name.

```
6764 <define name="svg-title">
6765    <element name="svg:title">
6766       <text/>
6767    </element>
6768 </define>
```

The <svg:desc> element is used for the long description in support of accessibility.

```
6769 <define name="svg-desc">
6770    <element name="svg:desc">
6771       <text/>
6772    </element>
6773 </define>
```

See appendix E for guidelines how to use these elements.

The <svg:title> and <svg:desc> elements can be used with the following drawing shape elements:

- <draw:rect>
- <draw:line>
- <draw:polyline>
- <draw:polygon>
- <draw:regular-polygon>
- <draw:path>
- <draw:circle>
- <draw:ellipse>
- <draw:g>
- <draw:page-thumbnail>
- <draw:frame>
- <draw:measure>
- <draw:caption>
- <draw:connector>
- <draw:control>
- <dr3d:scene>

- <draw:custom-shape>

It is further supported by layers (see section 9.1.3) and client side image maps (see section 9.3.10).

§ 9.2.20, “Event Listeners”, paragraph 1, p. 297

{NOTE - This section is re-numbered § 9.2.21 as a consequence of the previous amendment.}

Drawing shapes may have event listeners attached. The event listeners that are attached to, for example, a text box or an image, are represented by an event listener element as described in section 12.4. This element is contained within the drawing object element, for example, the <draw:text-box> element or the <draw:image> element.

§ 9.3, “Frames”, schema fragment, p. 298

{The following text inserts four new lines in the definition of the pattern “draw-frame” (lines 6785 and 6808-6810 of the amended schema) into the normative Relax-NG schema, as reproduced in this section.}

```
6774 <define name="draw-frame">
6775     <element name="draw:frame">
6776         <ref name="common-draw-shape-with-text-and-styles-attlist"/>
6777         <ref name="common-draw-position-attlist"/>
6778         <ref name="common-draw-rel-size-attlist"/>
6779         <ref name="common-draw-caption-id-attlist"/>
6780         <ref name="presentation-shape-attlist"/>
6781         <ref name="draw-frame-attlist"/>
6782         <zeroOrMore>
6783             <choice>
6784                 <ref name="draw-text-box"/>
6785                 <ref name="draw-image"/>
6786                 <ref name="draw-object"/>
6787                 <ref name="draw-object-ole"/>
6788                 <ref name="draw-applet"/>
6789                 <ref name="draw-floating-frame"/>
6790                 <ref name="draw-plugin"/>
6791             </choice>
6792         </zeroOrMore>
6793         <optional>
6794             <ref name="office-event-listeners"/>
6795         </optional>
6796         <zeroOrMore>
6797             <ref name="draw-glue-point"/>
6798         </zeroOrMore>
6799         <optional>
6800             <ref name="draw-image-map"/>
6801         </optional>
6802         <optional>
6803             <ref name="svg-title"/>
6804         </optional>
6805         <optional>
6806             <ref name="svg-desc"/>
6807         </optional>
6808         <optional>
6809             <choice>
6810                 <ref name="draw-contour-polygon"/>
6811                 <ref name="draw-contour-path"/>
6812             </choice>
6813         </optional>
6814     </element>
6815 </define>
```


§ 9.3, “Frames”, paragraph 5, pp. 298–299

The attributes that may be associated with the `<draw:frame>` element are:

- Position, Size (relative sizes, see below), Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16
- Presentation class – see section 9.6.1:Class
- Copy frames

§ 9.3, “Frames”, paragraph 6, p. 299

The following elements may be contained in the image element:

- Event Listeners – see section 12.4.
- Glue Points – see section 9.2.19.
- Image Map – see section 9.3.10.
- Title (short accessible name)~~Alternative text~~ – see section ~~9.3.0~~9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Contour – see section 9.3.8.

§ 9.3.1, “Text Box”, following sub-section “Maximum Height and Width”, p. 302

{The following text inserts a new sub-section, including reproduction of a new pattern definition “draw-text-box-attlist” (lines 6913-6917 of the amended schema) inserted into the normative Relax-NG schema.}

ID

A text box may have an ID. This ID can be used to reference the text box from other elements.

```
6902 <define name="draw-text-box-attlist" combine="interleave">
6903     <optional>
6904         <ref name="text-id"/>
6905     </optional>
6906 </define>
```

§ 9.3.3, “Objects”, paragraph 1, p. 303

A document in OpenDocument format can contain two types of objects, as follows:

- Objects that have an OpenDocument or other XML representation. Objects that have an OpenDocument representation~~representation. These objects~~ are:
  - Formulas (represented as [MathML])
  - ...

§ 9.3.3, “Objects”, sub-section “Class Id”, paragraph 1, p. 305

~~T~~If the embedded object is an OLE object, the `draw:class-id` attribute optionally contains the OLE class id of the object (see also [OLE]).

§ 9.3.8, “Contour”, paragraph 4, p. 310

For the `svg:width` and `svg:height` attributes of the `<draw:contour-polygon>` and `<draw:contour-path>` elements, applications should support pixel lengths (i.e., 20px) in addition to traditional lengths like 2cm~~In contrast to any other element the `svg:width` and `svg:height` attributes may have a pixel length (i.e., 20px) as value (as well as traditional lengths like 2cm)~~.

§ 9.3.9, “Alternative Text”, p. 310, sub-section deleted

{The entire sub-section is deleted.}

§ 9.3.10, “Hyperlinks”, paragraph 3, pp. 310–311

{NOTE - This section is re-numbered § 9.3.9 as a consequence of the deletion of the existing § 9.3.9.}

The attributes that may be associated with the `<draw:a>` element are:

- Link location
- Link target frame
- Name
- Title
- Server side image map

§ 9.3.10, “Hyperlinks”, following sub-section “Name”, p. 312

{NOTE - This section is re-numbered § 9.3.9 as a consequence of the deletion of the existing § 9.3.9.}

{The following text inserts a new sub-section, including the definition of the new pattern “draw-a-attlist” (lines 7146-7152 of the amended schema) in the normative Relax-NG schema.}

Title

The `office:title` attribute specifies a short accessible description for hint text.

See appendix E for guidelines how to use this attribute.

```
7135  <define name="draw-a-attlist" combine="interleave">
7136      <optional>
7137          <attribute name="office:title">
7138              <ref name="string"/>
7139          </attribute>
7140      </optional>
7141  </define>
```


§ 9.3.11, “Client Side Image Maps”, sub-section “Rectangular Image Map Areas”, paragraph 1, p. 313

{NOTE - This section is re-numbered § 9.3.10 as a consequence of the deletion of the existing § 9.3.9.}

The `<draw:area-rectangle>` element describes a rectangular image map area by an x, y position (`svg:x` and `svg:y` attributes) as well as a width and the height (`svg:width` and `svg:height` attributes). These attributes are required. In addition to this, the attributes described in ~~the~~ section 9.3.10:Common Image Map Attributes and Elements ~~section below~~ are optionally supported.

§ 9.3.11, “Client Side Image Maps”, sub-section “Rectangular Image Map Areas”, schema fragment, p. 313

{NOTE - This section is re-numbered § 9.3.10 as a consequence of the deletion of the existing § 9.3.9.}

{The following text inserts three lines into the definition of pattern “draw-area-rectangle” (lines 7175-7177 of the amended schema) in the normative Relax-NG schema, as reproduced in this section.}

```
7160 <define name="draw-area-rectangle">
7161     <element name="draw:area-rectangle">
7162         <ref name="common-draw-area-attlist"/>
7163         <attribute name="svg:x">
7164             <ref name="coordinate"/>
7165         </attribute>
7166         <attribute name="svg:y">
7167             <ref name="coordinate"/>
7168         </attribute>
7169         <attribute name="svg:width">
7170             <ref name="length"/>
7171         </attribute>
7172         <attribute name="svg:height">
7173             <ref name="length"/>
7174         </attribute>
7175         <optional>
7176             <ref name="svg-title"/>
7177         </optional>
7178         <optional>
7179             <ref name="svg-desc"/>
7180         </optional>
7181         <optional>
7182             <ref name="office-event-listeners"/>
7183         </optional>
7184     </element>
7185 </define>
```

§ 9.3.11, “Client Side Image Maps”, sub-section “Circular Image Map Areas”, paragraph 3, p. 313

{NOTE - This section is re-numbered § 9.3.10 as a consequence of the deletion of the existing § 9.3.9.}

The attributes described in section 9.3.10:Common Image Map Attributes and Elements ~~the *Common Image Map Attributes and Elements* section~~ are optional.

§ 9.3.11, “Client Side Image Maps”, sub-section “Circular Image Map Areas”, schema fragment, pp. 313–314

{NOTE - This section is re-numbered § 9.3.10 as a consequence of the deletion of the existing § 9.3.9.}

{The following text inserts three lines into the definition of pattern "draw-area-circle" (lines 7198-7200 of the amended schema) in the normative Relax-NG schema, as reproduced in this section.}

```
<define name="draw-area-circle">
    <element name="draw:area-circle">
        <ref name="common-draw-area-attlist"/>
        <attribute name="svg:cx">
            <ref name="coordinate"/>
        </attribute>
        <attribute name="svg:cy">
            <ref name="coordinate"/>
        </attribute>
        <attribute name="svg:r">
            <ref name="length"/>
        </attribute>
        <optional>
            <ref name="svg-title"/>
        </optional>
        <optional>
            <ref name="svg-desc"/>
        </optional>
        <optional>
            <ref name="office-event-listeners"/>
        </optional>
    </element>
</define>
```

§ 9.3.11, "Client Side Image Maps", sub-section "Polygonal Image Map Areas", paragraph 3, p. 314

{NOTE - This section is re-numbered § 9.3.10 as a consequence of the deletion of the existing § 9.3.9.}

The attributes above are required.The attributes described in section 9.3.10:Common Image Map Attributes and Elements~~the *Common Image Map Attributes and Elements* section~~ are optional.

§ 9.3.11, "Client Side Image Maps", sub-section "Polygonal Image Map Areas", schema fragment, pp. 314–315

{NOTE - This section is re-numbered § 9.3.10 as a consequence of the deletion of the existing § 9.3.9.}

{The following text inserts three lines into the definition of pattern "draw-area-polygon" (lines 7226-7228 of the amended schema) in the normative Relax-NG schema, as reproduced in this section.}

```
<define name="draw-area-polygon">
    <element name="draw:area-polygon">
        <ref name="common-draw-area-attlist"/>
        <attribute name="svg:x">
            <ref name="coordinate"/>
        </attribute>
        <attribute name="svg:y">
            <ref name="coordinate"/>
        </attribute>
        <attribute name="svg:width">
            <ref name="length"/>
        </attribute>
        <attribute name="svg:height">
            <ref name="length"/>
        </attribute>
        <ref name="common-draw-viewbox-attlist"/>
        <ref name="common-draw-points-attlist"/>
        <optional>
            <ref name="svg-title"/>
```



```
        </optional>
        <optional>
            <ref name="svg-desc"/>
        </optional>
        <optional>
            <ref name="office-event-listeners"/>
        </optional>
    </element>
</define>
```

§ 9.3.11, “Client Side Image Maps”, sub-section “Common Image Map Attributes and Elements”, list following paragraph 1, p. 315

{NOTE - This section is re-numbered § 9.3.10 as a consequence of the deletion of the existing § 9.3.9.}

- Link, including a IRI and link target frame.
- Name.
- Inactive flag.
- Title (short accessible name). Use the `<svg:title>` child element as described in section 9.2.20.
- Long d~~D~~escription (in support of accessibility). Use the `<svg:desc>` child element as described in section ~~9.3.9~~9.2.20.
- Events associated with the area. Use the `<office:event-listeners>` child element as described in section 12.4.

§ 9.4.1, “Scene”, schema fragment, p. 316

{The following text inserts seven new lines in the definition of the pattern “dr3d-scene” (lines 7291-7297 of the amended schema) in the Relax-NG normative schema}

```
<define name="dr3d-scene">
    <element name="dr3d:scene">
        <ref name="dr3d-scene-attlist"/>
        <ref name="common-draw-position-attlist"/>
        <ref name="common-draw-size-attlist"/>
        <ref name="common-draw-style-name-attlist"/>
        <ref name="common-draw-z-index-attlist"/>
        <ref name="common-draw-id-attlist"/>
        <ref name="common-draw-layer-name-attlist"/>
        <ref name="common-text-spreadsheet-shape-attlist"/>
        <ref name="common-dr3d-transform-attlist"/>
        <ref name="common-draw-caption-id-attlist"/>
        <optional>
            <ref name="svg-title"/>
        </optional>
        <optional>
            <ref name="svg-desc"/>
        </optional>
        <zeroOrMore>
            <ref name="dr3d-light"/>
        </zeroOrMore>
        <zeroOrMore>
            <ref name="shapes3d"/>
        </zeroOrMore>
    </element>
</define>
```

§ 9.4.1, “Scene”, paragraph 2, p. 317

The attributes that may be associated with the `<dr3d:scene>` element are:

- Position, Size, Style, Layer, Z-Index, ID and Caption ID – see section 9.2.15
- Text anchor, table background, draw end position – see section 9.2.16
- Camera vectors
- Projection
- Distance
- Focal length
- Shadow slant
- Shade mode
- Ambient color
- Lighting mode

§ 9.4.1, “Scene”, following paragraph 2, p. 317

{The following text inserts a new paragraph.}

The elements that may be contained in the `<dr3d:scene>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Light – see section 9.4.2.
- Scene – see section 9.4.1.
- Extrude – see section 9.4.5.
- Sphere – see section 9.4.4.
- Rotate – see section 9.4.6.
- Cube – see section 9.4.3.

§ 9.5, “Custom Shape”, schema fragment, p. 323

{The following text inserts seven new lines in the definition of the pattern “draw-custom-shape” (lines 7505-7511 of the amended schema) in the Relax-NG normative schema}

```
7499 <define name="draw-custom-shape">
7500     <element name="draw:custom-shape">
7501         <ref name="draw-custom-shape-attlist"/>
7502         <ref name="common-draw-position-attlist"/>
7503         <ref name="common-draw-size-attlist"/>
7504         <ref name="common-draw-shape-with-text-and-styles-attlist"/>
```



```
7505        <ref name="common-draw-caption-id-attlist"/>
7506        <optional>
7507            <ref name="svg-title"/>
7508        </optional>
7509        <optional>
7510            <ref name="svg-desc"/>
7511        </optional>
7512        <optional>
7513            <ref name="office-event-listeners"/>
7514        </optional>
7515        <zeroOrMore>
7516            <ref name="draw-glue-point"/>
7517        </zeroOrMore>
7518        <ref name="draw-text"/>
7519        <optional>
7520            <ref name="draw-enhanced-geometry"/>
7521        </optional>
7522    </element>
7523</define>
```

§ 9.5, “Custom Shape”, paragraph 2, p. 323

The attributes that may be associated with the `<draw:custom shape>` element are:

- Position, Size, Style, Layer, Z-Index, ID, Caption ID and Transformation – see section 9.2.15.
- Text anchor, table background, draw end position – see section 9.2.16.
- Draw engine
- Draw data

§ 9.5, “Custom Shape”, following paragraph 2, p. 323

{The following text inserts a new paragraph.}

The elements that may be contained in the `<draw:custom-shape>` element are:

- Title (short accessible name) – see section 9.2.20.
- Long description (in support of accessibility) – see section 9.2.20.
- Event listeners – see section 9.2.21.
- Glue points – see section 9.2.19.
- Text – see section 9.2.17.
- Enhanced geometry – see section 9.5.1.

§ 9.5.3, “Enhanced Geometry - Path Attributes”, sub-section “Enhanced Path”, paragraph 4, p. 333

A parameter can also have one of the following enhancements:

- A “?” is used to mark the beginning of a formula name. The result of the element's `draw:formula`

attribute is used as parameter value in this case.

- If “$” is preceding a integer value, the value is ~~a~~ indexing a `draw:modifiers` attribute. The corresponding modifier value is used as parameter value then.

§ 9.5.5, “Enhanced Geometry – Equation”, sub-section “Formula”, EBNF syntax production, p. 339

```
number_digit = '0'|'1'|'2'|'3'|'4'|'5'|'6'|'7'|'8'|'9'

number = number number_digit | number_digit

identifier = 'pi'|'left'|'top'|'right'|'bottom'|'xstretch'|'ystretch'|
             'hasstroke'|'hasfill'|'width'|'height'|'logwidth'|'logheight'

unary_function = 'abs'|'sqrt'|'sin'|'cos'|'tan'|'atan'|'atan2'
binary_function = 'min'|'max'
ternary_function = 'if'

function_reference = '?' 'a-z,A-Z,0-9' ' '
modifier_reference = '$' '0-9' ' '

basic_expression =
    number |
    identifier |
    function_reference |
    modifier_reference |
    unary_function '(' additive_expression ')' |
    binary_function '(' additive_expression ',' additive_expression ')' |
    ternary_function '(' additive_expression ',' additive_expression ',
                     ' additive_expression ')' | '(' additive_expression ')'

unary_expression = '-' basic_expression

multiplicative_expression =
                         basic_expression |
                         multiplicative_expression '*' basic_expression |
                         multiplicative_expression '/' basic_expression

additive_expression =
                    multiplicative_expression |
                    additive_expression '+' multiplicative_expression |
                    additive_expression '-' multiplicative_expression
```

§ 9.11.5, “Presentation Settings”, following sub-section “Stay On Top”, p. 369

{The following text inserts a new sub-section, including reproduction of a new pattern definition “presentation-settings-attlist” (lines 8608-8615 of the amended schema) inserted into the normative Relax-NG schema.}

Show End-Of-Presentation Slide

The attribute `presentation:show-end-of-presentation-slide` defines whether the presentation application should show an additional slide at the end of the presentation, telling the user that the presentation is finished.

This slides content itself is not defined within the document, but is generated by the application automatically.

```
8608 <define name="presentation-settings-attlist" combine="interleave">
8609     <optional>
```



```
8610        <attribute name="presentation:show-end-of-presentation-slide"
8611                   a:defaultValue="true">
8612            <ref name="boolean"/>
8613        </attribute>
8614    </optional>
8615</define>
```

§ 11.6, “Events”, p. 434

{The following text amends the title of this section.}

11.6 Event Listeners

§ 11.6, “Events”, paragraphs 1 and 2, p. 434

Forms and form controls may have event listeners attached. The event listeners that are attached to, for example, a list box or button, are represented by an event listener element as described in section 12.4. This element is contained within the form or form control element, for example, the `<form:listbox>` element or the `<form:button>`~~HTML defines a list of standard events for controls. These events are represented by attributes, which are associated with the control elements. In the office application XML file format, these events and any additional events defined by the application components are stored as elements in an `<office:eventlisteners>`~~ element.

Section 12.4.1 contains guidelines for event names that may be used within forms and form controls. In addition to those, the following events may be used for forms and form controls~~For a single event element, the `script:event-name` attribute specifies the type of event and other attributes specify the language and the event handler~~.

§ 11.6.1, “Events with an Equivalent HTML Event Type”, pp. 434–435, sub-section deleted

{The entire section is deleted. See related insertion in § 12.4.1, sub-section “Event Name”.}

§ 11.6.2, “Events Types”, section heading and paragraph 1, p. 435, sub-section text merged into § 11.6

{The heading and paragraph 1 are deleted. The table becomes a continuation of § 11.6 “Events” following paragraph 2.}

§ 11.6.2, “Events Types”, table, row 10, p. 436

`form:startre~~a~~load`	**Forms.**	Occurs when the form is about to refresh a data source connection.

§ 12.4.1, “Event Listener”, sub-section “Event Name”, paragraph 1, p. 445

The `script:event-name` attribute specifies the name of the event. Since the available events, their names and their meanings are application and script language dependent, the name should be preceded by a namespace prefix, so that the corresponding namespace together with the event name can be used to identify the semantic of the event. ~~For events that are specified in the DOM event model, it is recommended to use the event names described in § 1.4.2 of [DOMEvents]. The corresponding namespace is "http://www.w3.org/2001/xml-events".~~

§ 12.4.1, “Event Listener”, sub-section “Event Name”, following paragraph 1, p. 445

{The following text is inserted, including a new section § 12.4.2 heading and paragraph before the schema fragment.}

{NOTE – The table inserted below as part of this change is largely the table deleted along with the whole of § 11.6.1 (see above). However, two rows of the original table are intentionally omitted from the insertion, being the rows for event names `dom:keydown` *and* `dom:keyup`*.}*

Where appropriate, it is recommended to use the event names described in [DOMEvents2]. The corresponding namespace is "http://www.w3.org/2001/xml-events".

Note: Event names defined in [DOMEvents2] are not namespaced. If used in OpenDocument, they should be preceded by a namespace prefix as described above. [DOMEvents3], which is a work in progress, specifies namespaced event names. After completion of this specification, it is recommended to use event names as specified in [DOMEvents3].

The following table describes events defined in [DOMEvents2] that are typically supported by office application and have an equivalent event in HTML. The namespace that should be used for these events is “http://www.w3.org/2001/xml-events”. The namespace prefix used in this specification is “dom”.

Value of script:event-name Attribute	***Equivalent HTML Event***	***Description of Event***
`dom:change`	`onchange`	Occurs when a control is no longer focused and the value of the control was modified since it was given focus.
`dom:DOMFocusIn`	`onfocus`	Occurs when a control is given focus using the mouse or the TAB key.
`dom:DOMFocusOut`	`onblur`	Occurs when a control is no longer focused as a result of moving the mouse or by tabbing navigation. It may be used with the same elements as form:on-focus.
`dom:mouseover`	`onmouseover`	Occurs when the mouse pointer is moved over the control.
`dom:mousemove`	`onmousemove`	Occurs when the mouse pointer is moved onto a control.
`dom:mousedown`	`onmousedown`	Occurs when a mouse button is pressed on a control.
`dom:mouseup`	`onmouseup`	Occurs when a mouse button is released on a control.
`dom:mouseout`	`onmouseout`	Occurs when the mouse pointer is moved away from

Value of script:event-name Attribute	Equivalent HTML Event	Description of Event
		a control.
dom:reset	onreset	Occurs when a form is reset.
dom:submit	onsubmit	Occurs when a form is submitted.

12.4.2 Event Types

In addition to the HTML event types, the XML file format for office applications allows additional events to be handled at run time.

§ 12.6, "DDE Connections", following paragraph 2, p. 447

{The following text inserts a new paragraph.}

DDE only is available on some operating systems. In order to create portable documents, authors are advised to use this feature in their documents with great care.

§ 13.1.1, "Animate", schema fragment, p. 451

{The following text amends one line and deletes the preceding line of the definition of the pattern "animation-element" (line 10576 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
10569 <define name="animation-element" combine="choice">
10570     <element name="anim:animate">
10571         <ref name="common-anim-target-attlist"/>
10572         <ref name="common-anim-named-target-attlist"/>
10573         <ref name="common-anim-values-attlist"/>
10574         <ref name="common-anim-spline-mode-attlist"/>
10575         <ref name="common-spline-anim-value-attlist"/>
          ~~<ref name="common-repeat-timing-attlist"/>~~
10576         <ref name="common-fill-timing-attlist"/>
10577         <ref name="common-anim-add-accum-attlist"/>
10578     </element>
10579 </define>
```

§ 13.1.2, "Set", schema fragment, p. 451

{The following text amends one line of the definition of the pattern "animation-element" (line 10585 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
10580 <define name="animation-element" combine="choice">
10581     <element name="anim:set">
10582         <ref name="common-anim-target-attlist"/>
10583         <ref name="common-anim-named-target-attlist"/>
10584         <ref name="common-anim-set-values-attlist"/>
10585         <ref name="common-fill-timing-attlist"/>
10586         <ref name="common-anim-add-accum-attlist"/>
10587     </element>
10588 </define>
```

§ 13.1.3, “Animate Motion”, schema fragment, pp. 451–452

{The following text amends one line of the definition of the pattern “animation-element” (line 10596 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
10589 <define name="animation-element" combine="choice">
10590     <element name="anim:animateMotion">
10591         <ref name="anim-animate-motion-attlist"/>
10592         <ref name="common-anim-target-attlist"/>
10593         <ref name="common-anim-named-target-attlist"/>
10594         <ref name="common-anim-add-accum-attlist"/>
10595         <ref name="common-anim-values-attlist"/>
10596         <ref name="common-fill-timing-attlist"/>
10597         <ref name="common-spline-anim-value-attlist"/>
10598     </element>
10599 </define>
```

§ 13.1.4, “Animate Color”, schema fragment, pp. 452–453

{The following text amends one line of the definition of the pattern “animation-element” (line 10635 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
10626 <define name="animation-element" combine="choice">
10627     <element name="anim:animateColor">
10628         <ref name="common-anim-target-attlist"/>
10629         <ref name="common-anim-named-target-attlist"/>
10630         <ref name="common-anim-add-accum-attlist"/>
10631         <ref name="common-anim-values-attlist"/>
10632         <ref name="common-anim-spline-mode-attlist"/>
10633         <ref name="common-spline-anim-value-attlist"/>
10634         <ref name="anim-animate-color-attlist"/>
10635         <ref name="common-fill-timing-attlist"/>
10636     </element>
10637 </define>
```

§ 13.1.5, “Animate Transform”, schema fragment, p. 453

{The following text amends one line of the definition of the pattern “animation-element” (line 10666 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
10659 <define name="animation-element" combine="choice">
10660     <element name="anim:animateTransform">
10661         <ref name="common-anim-target-attlist"/>
10662         <ref name="common-anim-named-target-attlist"/>
10663         <ref name="common-anim-add-accum-attlist"/>
10664         <ref name="common-anim-values-attlist"/>
10665         <ref name="anim-animate-transform-attlist"/>
10666         <ref name="common-fill-timing-attlist"/>
10667     </element>
10668 </define>
```

§ 13.1.6, “Transition Filter”, schema fragment, p. 454

{The following text amends one line of the definition of the pattern “animation-element” (line 10687 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
10680 <define name="animation-element" combine="choice">
10681     <element name="anim:transitionFilter">
10682         <ref name="common-anim-target-attlist"/>
10683         <ref name="common-anim-add-accum-attlist"/>
```



```
        <ref name="common-anim-values-attlist"/>
        <ref name="common-anim-spline-mode-attlist "/>
        <ref name="anim-transition-filter-attlist"/>
        <ref name="common-fill-timing-attlist"/>
    </element>
</define>
```

§ 13.4.1, “Animation Timing Attributes”, sub-section “Repeating Elements”, schema fragment, p. 460

{The following text inserts five lines into the definition of the pattern “common-repeat-timing-attlist” (lines 10877, 10878, 10880, 10882 and 10883 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
<define name="common-repeat-timing-attlist" combine="interleave">
    <optional>
        <attribute name="smil:repeatDur">
            <ref name="string"/>
        </attribute>
    </optional>
    <optional>
        <attribute name="smil:repeatCount">
            <choice>
                <ref name="nonNegativeInteger"/>
                <value>indefinite</value>
            </choice>
        </attribute>
    </optional>
</define>
```

§ 13.4.3, “Sequential Animations”, schema fragment, p. 463

{The following text inserts three lines into the definition of the pattern “animation-element” (lines 10990-10992 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
<define name="animation-element" combine="choice">
    <element name="anim:seq">
        <ref name="common-anim-attlist"/>
        <ref name="common-endsync-timing-attlist"/>
        <ref name="common-timing-attlist"/>
        <zeroOrMore>
            <ref name="animation-element"/>
        </zeroOrMore>
    </element>
</define>
```

§ 13.4.4, “Iterative Animations”, schema fragment, pp. 463–464

{The following text amends one line of the definition of the pattern “animation-element” (line 10998 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
<define name="animation-element" combine="choice">
    <element name="anim:iterate">
        <ref name="common-anim-attlist"/>
        <ref name="anim-iterate-attlist"/>
        <ref name="common-timing-attlist"/>
        <ref name="common-endsync-timing-attlist"/>
        <zeroOrMore>
            <ref name="animation-element"/>
```

```
        </zeroOrMore>
    </element>
</define>
```

§ 13.4.4, “Iterative Animations”, sub-section “The Target Element”, paragraph 1, p. 464

The [SMIL20] `smil:targetElement` and `anim:sub-item` attributes specify~~ies~~ the target element to whose children the effects should be applied. See section 9.8.2 for details about the attribute's usage in presentation documents.

§ 13.4.4, “Iterative Animations”, sub-section “The Target Element”, schema fragment, p. 464

{The following text amends one line, deletes five lines and inserts a replacement line of the definition of the pattern “anim-iterate-attlist” (lines 11006-11007 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
<define name="anim-iterate-attlist" combine="interleave">
    <ref name="common-anim-target-attlist"/>
    <optional>
        <attribute name="smil:targetElement">
            <ref name="IDREF"/>
        </attribute>
    </optional>
</define>
```

§ 13.4.4, “Iterative Animations”, sub-section “The Iterate Type”, schema fragment, p. 464

{The following text amends one line of the definition of the pattern “anim-iterate-attlist” (line 11009 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

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

§ 13.4.4, “Iterative Animations”, sub-section “The Iterate Interval”, schema fragment, p. 464

{The following text amends one line of the definition of the pattern “anim-iterate-attlist” (line 11016 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
<define name="anim-iterate-attlist" combine="interleave">
    <optional>
        <attribute name="anim:iterate-interval">
            <ref name="duration"/>
        </attribute>
    </optional>
</define>
```


§ 14.4.1, “Headers and Footers”, schema-fragment, p. 478

{The following text inserts one line into the definition of the pattern “header-footer-content” (line 11303 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
<define name="header-footer-content">
    <choice>
        <group>
            <ref name="text-tracked-changes"/>
            <ref name="text-decls"/>
            <zeroOrMore>
                <choice>
                    <ref name="text-h"/>
                    <ref name="text-p"/>
                    <ref name="text-list"/>
                    <ref name="table-table"/>
                    <ref name="text-section"/>
                    <ref name="text-table-of-content"/>
                    <ref name="text-illustration-index"/>
                    <ref name="text-table-index"/>
                    <ref name="text-object-index"/>
                    <ref name="text-user-index"/>
                    <ref name="text-alphabetical-index"/>
                    <ref name="text-bibliography"/>
                    <ref name="text-index-title"/>
                    <ref name="change-marks"/>
                </choice>
            </zeroOrMore>
        </group>
        <group>
            <optional>
                <ref name="style-region-left"/>
            </optional>
            <optional>
                <ref name="style-region-center"/>
            </optional>
            <optional>
                <ref name="style-region-right"/>
            </optional>
        </group>
    </choice>
</define>
```

§ 14.4.2, “Presentation Notes”, schema fragment, p. 479

{The following text inserts one line into the definition of the pattern “presentation-notes” (line 11369 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
<define name="presentation-notes">
    <element name="presentation:notes">
        <ref name="common-presentation-header-footer-attlist"/>
        <ref name="presentation-notes-attlist"/>
        <ref name="office-forms"/>
        <zeroOrMore>
            <ref name="shape"/>
        </zeroOrMore>
    </element>
</define>
```

§ 14.5.1, “Row and Column Styles”, paragraph 1, p. 482

The elements <table:first-row> and <table:last-row> specify the cell styles that shall be applied to the first and last row of a table. They have a text~~table~~:style-name attribute that references these styles.

§ 14.5.1, “Row and Column Styles”, following paragraph 1, p. 482

{The following text inserts a new paragraph.}

The optional text:paragraph-style-name attribute specifies the paragraph style which should be applied to the empty paragraphs created in the corresponding cells.

§ 14.5.1, “Row and Column Styles”, schema fragment, p. 483

{The following text inserts five lines into the definition of the pattern “common-table-template-attlist” (lines 11519-11523 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
11515 <define name="common-table-template-attlist" combine="interleave">
11516     <attribute name="text:style-name">
11517         <ref name="styleNameRef"/>
11518     </attribute>
11519     <optional>
11520         <attribute name="text:paragraph-style-name">
11521             <ref name="styleNameRef"/>
11522         </attribute>
11523     </optional>
11524 </define>
```

§ 14.6.1, “CSS2/SVG Font Descriptors”, schema fragment, p. 487

{The following text amends one line of the definition of the pattern “svg-font-face-name” (line 11737 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
11734 <define name="svg-font-face-name">
11735     <element name="svg:font-face-name">
11736         <optional>
11737             <attribute name="svg:name"/>
11738         </optional>
11739         <empty/>
11740     </element>
11741 </define>
```

§ 14.9.1, “Line Numbering Configuration”, sub-section “Position”, schema fragment, p. 516

{The following text amends one line of the definition of the pattern “text-linenumbering-configuration-attlist” (line 12506 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
12501 <define name="text-linenumbering-configuration-attlist" combine="interleave">
12502     <optional>
12503         <attribute name="text:number-position" a:defaultValue="left">
12504             <choice>
12505                 <value>left</value>
12506                 <value>right~~h~~</value>
```



```
                <value>inner</value>
                <value>outer</value>
            </choice>
        </attribute>
    </optional>
</define>
```

§ 14.10.3, “Bullet Level Style”, sub-section “Bullet Character”, paragraph 2, p. 527

{The following text replaces a list with a table.}

Typical bullet characters are:

UNICODE Character Code	***Typical Shape***	***UNICODE Character Name***	***Reference***
U+2022	•	BULLET	http://www.unicode.org/charts/PDF/U2000.pdf
U+25CF	●	BLACK CIRCLE	http://www.unicode.org/charts/PDF/U25A0.pdf
U+2714	✓	HEAVY CHECK MARK	http://www.unicode.org/charts/PDF/U2700.pdf
U+2717	✗	BALLOT X	
U+2794	➔	HEAVY WIDE-HEADED RIGHTWARDS ARROW	
U+27A2	➢	THREE-D TOP-LIGHTED RIGHTWARDS ARROWHEAD	

~~• U+2022~~

~~● U+25CF~~

~~➔ U+2794~~

~~➢ U+27A2~~

~~✗ U+2717~~

~~✓ U+2714~~

§ 14.10.3, “Bullet Level Style”, sub-section “Prefix and Suffix”, paragraph 1, p. 527

The attributes `style:num-~~format~~prefix` and `style:num-~~format~~suffix` specified in section 12.2 can be used to add characters before or behind the bullet character.

§ 14.11, “Outline Style”, paragraph 1, p. 529

The outline style is a list style that is applied to all headings within a text document where the ~~the~~ heading's paragraph style does not define a list style to use itself.

§ 14.12.4, “Table Cell Styles”, paragraph 1, p. 532

Table cell styles are `<style:style>` elements that have the family `table-cell`. They can be used within all kind of applications to specify formatting properties for table cells. They support the table properties as described in section 15.11 as well as the paragraph and text properties as described in sections 15.5 and 15.4.

§ 14.15.1, “Presentation Placeholder”, paragraph 2, p. 547

The element has the following attributes:

- `object`: Specifies the kind of object the element is a placeholder for. The value equals the one of the presentation:class attribute for presentation shapes. See section 9.6.
- `svg:x`, `svg:y`, `svg:width`, `svg:height`: position and size attributes as specified in section 9.2.15, with the exception that the attributes may take percentage values in addition to coordinates and lengths~~percentage values are allowed for placeholders~~.

§ 15.3.8, “Dynamic Spacing”, schema fragment, p. 562

{The following text changes the name of the pattern “style-header-footer-attlist” (line 13831 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
13831 <define name="style-header-footer-properties-attlist" combine="interleave">
13832     <optional>
13833         <attribute name="style:dynamic-spacing">
13834             <ref name="boolean"/>
13835         </attribute>
13836     </optional>
13837 </define>
```

§ 15.4.18, “Font Character Set”, schema fragment, p. 570

{The following text inserts ten lines into the definition of the pattern “style-text-properties-attlist” (lines 14073-14082 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
14067 <define name="style-text-properties-attlist" combine="interleave">
14068     <optional>
14069         <attribute name="style:font-charset">
14070             <ref name="textEncoding"/>
14071         </attribute>
14072     </optional>
14073     <optional>
14074         <attribute name="style:font-charset-asian">
14075             <ref name="textEncoding"/>
14076         </attribute>
14077     </optional>
14078     <optional>
14079         <attribute name="style:font-charset-complex">
14080             <ref name="textEncoding"/>
14081         </attribute>
14082     </optional>
14083 </define>
```


§ 15.4.19, “Font Size”, paragraph 2, p. 570

The value of these propert~~y~~ies is either an absolute length or a percentage as described in §7.8.4 of [XSL]. In contrast to XSL, percentage values can be used within common styles only and relates to the font height of the parent style rather than to the font height of the attributes neighborhood. Absolute font heights such as `medium`, `large`, `x-large`, and so on, and relative font heights such as `smaller`, and `larger` are not supported

§ 15.5.17, “Left and Right Margins”, paragraph 1, p. 591

Use the `fo:margin-left` and `fo:margin-right` properties to specify the left and right margins for a paragraph. See § 7.10.3 and § 7.10.4 of [XSL] for details. The attributes' values are lengths. If the attribute is contained in a common style, the attributes' values may be also percentages~~value `auto` is not supported. Percentage values are only supported in common styles~~. They here relate to the corresponding margin of the parent style.

§ 15.5.18, “Text Indent”, paragraph 1, p. 592

Use the `fo:text-indent` property to specify a positive or negative indent for the first line of a paragraph. See § 7.15.11 of [XSL] for details. The attribute's value is a length. If the attribute is contained in a common style, the attribute's value may be also a percentage. It here relates~~Percentage values are only supported in common styles. They here relate~~ to the corresponding margin of the parent style.

§ 15.5.20, “Top and Bottom Margins”, paragraph 1, p. 592

Use the `fo:margin-top` and `fo:margin-bottom` properties to specify the top and bottom margins for paragraphs. See § 7.10.1 and § 7.10.2 of [XSL] for details. The attributes' values are lengths. If the attributes are contained in a common style, the attributes' values may be also percentages~~value `auto` is not supported. Percentage values are only supported in common styles~~. They here relate to the corresponding margin of the parent style.

§ 15.5.35, “Vertical Alignment”, paragraph 2, p. 601

The following graphic illustrates the effect of the vertical alignment property when it is set to baseline, top, bottom, and middle~~center~~ respectively.

§ 15.5.35, “Vertical Alignment”, schema fragment, pp. 601–602

{The following text inserts one line into the definition of the pattern “style-paragraph-properties-attlist” (line 15124 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
15124 <define name="style-paragraph-properties-attlist" combine="interleave">
15125     <optional>
15126         <attribute name="style:vertical-align" a:defaultValue="auto">
15127             <choice>
15128                 <value>top</value>
15129                 <value>middle</value>
15130                 <value>bottom</value>
15131                 <value>auto</value>
15132                 <value>baseline</value>
15133             </choice>
15134         </attribute>
15135     </optional>
15136 </define>
```

§ 15.5.39, “Page Number”, following paragraph 1, p. 603

{The following text inserts a new paragraph.}

The attribute value can be an integer value or the value `auto`. An integer value specifies the page number of the new page directly. The value `auto` specifies that the page gets the page number of the previous page, incremented by one.

§ 15.5.39, “Page Number”, schema fragment, p. 603

{The following text inserts three lines into the definition of the pattern “common-page-number-attlist” (lines 15178,15180 and 15181 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
15175 <define name="common-page-number-attlist">
15176     <optional>
15177         <attribute name="style:page-number">
15178             <choice>
15179                 <ref name="positiveInteger"/>
15180                 <value>auto</value>
15181             </choice>
15182         </attribute>
15183     </optional>
15184 </define>
```

§ 15.10, “Table Row Formatting Properties”, paragraph 1, p. 615

The properties described in this section can be contained within table row styles (see section 14.12.3) They are contained in a `<style:table-row-properties>` ~~column styles (see section 14.12.3) They are contained in a `<style:table-column-properties>`~~ element.

§ 15.10.4, “Break Before and Break After”, paragraph 1, p. 616

The `fo:break-before` and `fo:break-after` properties insert a page or row~~column~~ break before or after a table row~~column~~. See section 15.5.22 for a full explanation of these properties.

§ 15.24.2, “Kind”, schema fragment, pp. 652–653

{The following text amends one line in the definition of the pattern “style-graphic-properties-attlist” (line 16643 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
16638 <define name="style-graphic-properties-attlist" combine="interleave">
16639     <optional>
16640         <attribute name="dr3d:texture-kind">
16641             <choice>
16642                 <value>luminance</value>
16643                 <value>intensity</value>
16644                 <value>color</value>
16645             </choice>
16646         </attribute>
16647     </optional>
16648 </define>
```


New section following § 15.27.31, “Wrap Influence on Position”, p. 667

{The following text inserts a new section, including reproduction of a schema fragment (lines 17021-17023 of the amended schema) inserted into the normative Relax-NG schema.}

15.27.32 Writing Mode

The `style:writing-mode` attribute specifies the writing mode for a text-box. See section 15.5.36 for details.

```
17021 <define name="style-graphic-properties-attlist" combine="interleave">
17022     <ref name="common-writing-mode-attlist"/>
17023 </define>
```

§ 15.28.6, “Draw Aspect”, paragraph 1, p. 669

For embedded OLE objects, t~~T~~he `draw:ole-draw-aspect` attribute specifies the draw aspect that is used to display embedded ~~OLE~~ objects (see [OLE]). The draw aspect controls whether the object is displayed as a normal sub document, or whether the object is for instance displayed as an icon only. Within the [OLE] API, the draw aspect is an unsigned integer value that the host application passes to the object when it requests its presentation.

§ 15.31.3, “Scaling”, schema fragment, p. 675

{The following text amends one line in the definition of the pattern “style-chart-properties-attlist” (line 17317 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
17295 <define name="style-chart-properties-attlist" combine="interleave">
          ...
17316     <optional>
17317         <attribute name="chart:interval-minor-divisor">
18318             <ref name="positiveInteger"/>
19319         </attribute>
17320     </optional>
17321 </define>
```

§ 15.36.7, “Fade Color”, schema fragment, pp. 686–687

{The following text deletes four lines and inserts one new line in the definition of the pattern “style-drawing-page-properties-attlist” (line 17606 of the amended schema) in the normative Relax-NG schema as reproduced in this section.}

```
17603 <define name="style-drawing-page-properties-attlist" combine="interleave">
17604     <optional>
17605         <attribute name="smil:fadeColor">
17606             <ref name="color"/>
                  <choice>
                      <value>forward</value>
                      <value>reverse</value>
                  </choice>
17607         </attribute>
17608     </optional>
17609 </define>
```

§ 16.1, “Data Types”, list following paragraph 1, p. 690

{The following text inserts an additional sub-item at the end of the list.}

- IDREFS

§ 16.1, “Data Types”, schema fragment, p. 691

{The following text inserts the definition of a pattern 'IDREFS' (lines 17729-17731 of the amended schema) into the normative Relax-NG schema reproduced in this section.}

```
17729 <define name="IDREFS">
17730     <data type="IDREFS"/>
17731 </define>
```

§ 16.1, “Data Types”, sub-list “custom data types”, p. 691

{The following text amends the specification of sub-list item “language” within this sub-list.}

- custom data types (usually specializations of W3C Schema data types)
  - …
  - language

    A language is a the same as ~~a W3C schema language data type, except that the values a described by [RFC3066] rather than [RFC1766]~~an [xmlschema-2] language data type.
  - ...

§ 16.1, “Data Types”, sub-list “custom data types”, p. 691

{The following text amends the second sentence of the specification of sub-list item “length” within this sub-list, and inserts a new paragraph.}

{NOTE – The first sentence of this sub-list item is represented by an ellipsis and is not changed by this Amendment. This is to avoid confusion with a change made to this sentence by ISO/IEC 26300:2006/Cor 1.}

... Supported units are “cm”, “mm”, “in”, “pt” and “pc”. Applications **shall** support all these units. Applications **may** also support “px” (pixel). Where the description of an attribute explicitly states that pixel lengths are supported, applications **should** support them. ~~Valid lengths would be “2.54cm” or “1inch”. A number without unit is not a valid length, e.g., “3.2”. The support of pixel values is optional.~~

Examples for valid lengths are “2.54cm” and “1in”.

- …

§ 16.1, “Data Types”, schema fragment, p. 693

{The following text amends the definition of the pattern 'language' (lines 17750-17752 of the amended schema) into the normative Relax-NG schema reproduced in this section.}

```
17750 <define name="language">
17751     <data type="language"/>
      ~~    <data type=”token”>~~
```



```
        <param name="pattern">[A-Za-z]{1,8}(-[A-Za-z0-9]{1,8})*</param>
    </data>
</define>
```

§ 16.1, "Data Types", schema fragment, p. 694

{The following text amends the definition of the pattern 'positiveLength' (lines 17780-17785 of the amended schema) into the normative Relax-NG schema reproduced in this section.}

```
<define name="positiveLength">
    <data type="string">
        <param name="pattern">([0-9]*[1-9][0-9]*(\.[0-9]*)?|0+\.[0-9]*[1-9][0-9]*|\.[0-9]*[1-9][0-9]*)((cm)|(mm)|(in)|(pt)|(pc)|(px))</param>
        <!-- A zero value is not allowed here -->
        <param name="pattern">([0-9]+(\.[0-9]*)?|\.[0-9]+)((cm)|(mm)|(in)|(pt)|(pc)|(px))</param>
    </data>
</define>
```

§ 17.5, "Usage of IRIs Within Packages", paragraph 2, p. 699

The following restrictions exist for IRIs that are used within a package:

- only sub files within the same package and files outside the package can be referenced.
- IRIs that reference a sub file of a package **shall** be relative, and they **shall not** contain paths that are not within the package. This especially means that sub files of a package **shall not** be referenced by an absolute IRI.
- sub file of a package can not be referenced from outside the package, for instance from the file system or another package.

§ 17.7.1, "Relax-NG Schema", schema fragment, p. 700

{The following text amends the prefix (lines 3, 9 and 10 of the amended schema) into the normative Relax-NG schema reproduced in this section.}

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
    OASIS OpenDocument v1.10 (Second Edition)
    OASIS Standard, 1 Feb 2007Committee Specification1, 19 Jul 2006
    Relax-NG Manifest Schema

    $Id$

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

Appendix A, "Strict Relax NG Schema", schema fragment, p. 706

{The following text amends the prefix (lines 3, 9 and 10 of the amended schema) in the normative Relax-NG schema reproduced in this section.}

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
    OASIS OpenDocument v1.10 (Second Edition)
    OASIS Standard, 1 Feb 2007Committee Specification1, 19 Jul 2006
    Strict Relax-NG Schema

    $Id$

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

Appendix A, “Strict Relax NG Schema”, schema fragment, p. 706

{The following text amends line 14 of the amended schema, in the normative Relax-NG schema reproduced in this section.}

```
<grammar xmlns="http://relaxng.org/ns/structure/1.0">
    <include href="OpenDocument-schema-v1.10 os.rng">
```

Appendix A, “Strict Relax NG Schema”, schema fragment, p. 707

{The following text amends the definition of the pattern “style-chart-properties-content” (lines 57-59 of the amended schema) into the normative Relax-NG schema reproduced in this section.}

```
        <define name="style-chart-properties-content">
            <ref name="style-chart-properties-content-strict"/>
        </define>
```

Appendix B, “References”, p. 708

[CSS2] Bert Bos, Håkon Wium Lie, Chris Lilley, Ian Jacobs, *Cascading Style Sheets, level 2*, http://www.w3.org/TR/1998/REC-CSS2-19980512, W3C, 1998.

[CSS3Text] Michel Suignard, *CSS3 Text Module*, http://www.w3.org/TR/2003/CR-css3-text-20030514, W3C, 2003.

[DAISY] ANSI/NISO Z39.86-2005 *Specifications for the Digital Talking Book*, http://www.niso.org/standards/resources/Z39-86-2005.html, 2005

[DCMI] -, *Dublin Core Metadata Element Set, Version 1.1: Reference Description*, http://www.dublincore.org/documents/dces/, Dublin Core Metadata Initiative, 2003.

[DOMEvents] Philippe Le Hégaret, Tom Pixley, *Document Object Model (DOM) Level 3 Events Specification*, http://www.w3.org/TR/2003/WD-DOM-Level-3-Events-20030331, W3C, 2003.

[DOM2] W3C, *Document Object Model Level 2 Core Specification*, http://www.w3.org/TR/2000/REC-DOM-Level-2-Core-20001113, W3C, 2000.

[DOMEvents2] Tom Pixley, *Document Object Model (DOM) Level 2 Events Specification*, http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113, W3C, 2000.

[DOMEvents3] Philippe Le Hégaret, Tom Pixley, *Document Object Model (DOM) Level 3 Events Specification*, http://www.w3.org/TR/DOM-Level-3-Events/, W3C, 2003.

[HTML4] …

Appendix B, “References”, p. 708

...

[OOo] , *OpenOffice.org XML File Format 1.0 Technical Reference Manual*, http://xml.openoffice.org/xml_specification.pdf, Sun Microsystems, Inc., 2002.

~~**[RFC1766]** H. Alvestrand, *Tags for the Identification of Languages*, http://www.ietf.org/rfc/rfc1766.txt, IETF, 1995.~~

[PNG] …

Appendix B, “References”, p. 709

...

[SVG] Jon Ferraiolo, 藤沢 淳 (FUJISAWA Jun), Dean Jackson, *Scalable Vector Graphics (SVG) 1.1*, http://www.w3.org/TR/2003/REC-SVG11-20030114/, W3C, 2003.

[UAX9] Mark Davis, Unicode Standard Annex #9: *The Bidirectional Algorithm, Version 15 or later*, http://www.unicode.org/reports/tr9/tr9-15.html, 2005

[UNICODE] The Unicode Consortium. The Unicode Standard, Version 4.0.0, defined by: *The Unicode Standard, Version 4.0* (Boston, MA, Addison-Wesley, 2003. ISBN 0-321-18578-1)

[UTR20] Martin Dürst and Asmus Freytag, Unicode Technical Report #20: *Unicode in XML and other Markup Languages*, http://www.unicode.org/reports/tr20/, 2003

[XForms] …

Appendix B, “References”, p. 709

...

[XML1.0] Tim Bray, Jean Paoli, C. M. Sperberg-McQueen, Eve Maler, François Yergeau , *Extensible Markup Language (XML) 1.0 (Third Edition)*, http://www.w3.org/TR/2004/REC-xml-20040204, W3C, 2004.

[xmlschema-2] Paul V. Biron, Ashok Malhotra, *XML Schema Part 2: Datatypes Second Edition*, http://www.w3.org/TR/2004~~1~~/REC-xmlschema-2-20041028~~20010502~~/, W3C, 2004~~1~~.

[XSL] ...

New Appendices following Appendix D “Core Features Sets (Non Normative)”, p. 716

{The following text inserts two new Appendices.}

Appendix E. Accessibility Guidelines (Non Normative)

E.1. Title, Description and Caption of Graphical Elements

User agents supporting platform accessibility APIs should follow the following conventions for supporting the accessible name, accessible description (accessible help on some systems), and caption-id relationships (see sections 9.2.20 and 9.2.15:Caption-ID for a description of these elements and attributes):

If an `<svg:title>` element is provided it should map to the accessible name. If not, the name should use

the text referenced by the draw:caption-id attribute. The <svg:desc> element must be used to support the accessible description. User agents shall not manufacture names for the <svg:title> element, such as using the drawing object name followed by a cardinal number in a string as it is used for accessibility. Name assignments such as these provide no semantic meaning to the user.

When transforming from another document format to OpenDocument the short names, like HTML's alt text on the <img> elements shall be mapped to the <svg:title> element.

If the user agent supports a platform which provides a draw:caption-id relationship in its accessibility API, this relationship for captions should be used to fulfill the relationship.

Guidance for authors:

Authors should not assign names to objects having no semantic value. If no name is assigned the caption text will be used in its place.<svg:title> elements shall take precedence over the caption text for accessible name assignment by the user agent.

Assignment of the long description should only be necessary when a drawing object is significantly complex and the user needs more information to describe it. Long descriptions would be more applicable to drawing groupings than basic drawing shapes.

Authoring tool responsibility for presenting and prompting for the <svg:title> and <svg:desc> elements:

Authoring tools should provide an option from an objects context menu to allow the user to enter the text for either of these elements as a minimum. More proactive authoring tools should have a facility for prompting the author for this text. Since the <svg:desc> element is a long description, a text area vs. a text field should be used to prompt the user accordingly in GUI-based authoring tools like office applications.

Navigation tools used to list the objects in the view should provide the type of object followed by the contents of <svg:title> element. The title must have been entered by the author.

For <draw:g> elements the drawing objects which are members of the group should visible only when the group is expanded.

E.2. Hyperlink Titles

When transforming from another document format to OpenDocument the alt text of hyperlinks, shall be mapped to the office:title attribute of <text:a> elements (see section 5.1.4) or <draw:a> elements (see section 9.3.9). When exporting OpenDocument documents to HTML, the contents of title text should be mapped to title attribute text on HTML anchor tags. As a minimum, authoring tools should provide a mechanism to provide the hint text.

The title text should be made accessible to the assistive technology and user. The user agent should allow for programmatic access through standard accessibility APIs such as the accessible description. Users should experience visible access to the hint text via the keyboard or mouse.

E.3. Tables in Presentations

Users importing non-OpenDocument slides that contain tables need access to the table structure via their assistive technology. Therefore tables imported into an OpenDocument application from another file format must have their structure preserved, and when saved as OpenDocument should be saved as as embedded spreadsheets.

E.4. Further Guidelines

Please see the additional, detailed Accessibility Guidelines http://docs.oasis-open.org/office/office-accessibility/guidelines. That more comprehensive document will be the up-to-date set of recommendations for what all OpenDocument applications should do in order to fully support accessibility.

Appendix F. Bidirectional (BiDi) Scripts,Numeric Digits Presentation and Calendars (Non Normative)

This appendix describes how bidirectional (BiDi) scripts and related information are represented in OpenDocument.

Paragraph and Layout Direction

In OpenDocument, the direction of text runs inside a paragraph is calculated using the Unicode BiDi Algorithm (see [UAX9]). The paragraph direction, as required by the BiDi Algorithm (see BD5 of [UAX9]), and the display direction of layout objects like table or page columns (in the following called layout direction) is controlled by a writing mode attribute (`style:writing-mode`) that can be used within styles.

The writing mode attribute can be applied individually to paragraph styles, page styles, section styles, table styles and graphic styles. If present within a paragraph style, it controls the paragraph direction of those paragraphs, to which the style is applied. If present within a page style, section style, table style or graphic style, it controls the layout direction of those pages, text sections, tables and text-boxes to which the styles is applied.

Section 15.2.19 describes the `style:writing-mode` attribute for page styles. It may, among other values, take the the values `lr-tb` (left-to-right, top-to-bottom) and `rl-tb` (right-to-left, top-to-bottom). The writing-mode attribute of a page style specifies the layout direction of page columns (left-to-right or right-to-left) for pages that are formatted using the page style.

Section 15.5.36 describes the `style:writing-mode` attribute for paragraph styles. It specifies the paragraph direction as defined in BD5 of [UAX9] for all paragraphs that have the paragraph style assigned. For paragraphs that are contained in lists, it further specifies whether the list numbers and bullets are displayed on the left or on the right of the paragraph.

The writing mode attribute for paragraph styles takes the same values as the writing mode attribute for page styles, but may also take the value `page`. This value specifies that the paragraph direction is inherited from the layout direction of the closest layout object (section, table or text-box) in which the paragraph is contained, and which has a layout direction other than `page`. If the paragraph is not contained in any of these layout objects, the paragraph direction is inherited from the page on which the paragraph appears.

The paragraph direction determines the default bidirectional orientation of the text in that paragraph. The result of the BiDi Algorithm can be manually changed by inserting BiDi embedding control characters (U+202A ... U+202E) and implicit directional marks (U+200E ...U+200F) into the text (see [UTR20]).

OpenDocument further has a `style:automatic-writing-mode` attributes (described in section 15.5.37) that specifies that an application is allowed to recalculate the value of the paragraph's writing-mode attribute based on its content whenever the content changes.

Section 15.7.8 describes the `style:writing-mode` attribute for section styles. It may take the same values as the writing mode attribute for paragraph styles.

The writing-mode attribute of a section style specifies the layout direction of section columns (left-to-right or right-to-left) for text sections that have the section style assigned. If the attribute's value is `page`, then the layout direction is inherited from the layout direction of the closest layout object (section, table or text-box) in which the section is contained, and which has a layout direction other than `page`.

Section 15.8.13 describes the `style:writing-mode` attribute for table styles. It may take the same values as the writing mode attribute for paragraph styles.

The writing-mode attribute of a table style specifies the layout direction of table cells (left-to-right or right-to-left) for tables that have the table style assigned. If the attribute's value is `page`, then the layout direction is inherited from the layout direction of the closest layout object (section, table or text-box) in which the table is contained, and which has a layout direction other than `page`.

Section 14.13.1 describes the `style:writing-mode` attribute for graphic styles. It may take the same values as the writing mode attribute for paragraph styles.

The writing-mode attribute of a graphic style specifies the layout direction of columns (left-to-right or right-to-left) for text-boxes that have the graphic style assigned. If the attribute's value is `page`, then the layout

direction for text-boxes that are anchored to a page is inherited from the layout direction of the page on which the text-box is displayed. For text-boxes that have a different anchor type, the layout direction is inherited from the paragraph direction of the paragraph that contains the text-box.

Numeric Digits Presentation and Calendars

All digits that have a Unicode code point can be included in an OpenDocument document.

Note: Some office application have a feature that allows the user to specify whether the ASCII digits U+0030 ... U+0039 should be displayed as Arabic digits or as Indic digits (U+0660 ... U+0669). Since this feature effects only what digits are displayed and does not influence the representation of digits in the document itself, OpenDocument only allows storing this setting as an application specific setting, not as document or style content.

For list numbers, that are calculated automatically, OpenDocument provides a generic mechanism to specify the applicable numbering formats (see section 12.2.2).

Note: The specification currently mentions only "1, 2, 3...", "I, II, III...", and "i, ii, iii" explicitly, but the schema also allows a generic string here.

OpenDocument further supports data styles, which describe how different types of data are displayed, for example, a number or a date. Data styles are described in section 14.7. The presentation of numeric digits can be controlled by the transliteration attributes described in section 14.7.10. The presentation of date information can be controlled by the number:calendar attribute specified in section 14.7.11.

Appendix E, “Changes From Previous Specification Versions (Non Normative)”, new section following § E.3 “Changes from “Open Document Format for Office Applications (OpenDocument) v1.0””, p. 718

{The following text inserts a new section.}

{NOTE – This appendix is re-numbered from E to G, due to the insertion of new appendices by the preceding change.}

G.4. Changes from “Open Document Format for Office Applications (OpenDocument) v1.0 (Second Edition)”

The following are the changes between the “Open Document Format for Office Applications (OpenDocument) v1.0 (Second Edition)” specification and the “Open Document Format for Office Applications (OpenDocument) v1.1” specification.

- The accessibility support of OpenDocument was improved by the following changes:
  - Soft Page Breaks were added.
  - The usage of table header and row columns was clarified (sections 8.2.2 and 8.2.4).
  - A logical navigation order for presentation slides was added (section 9.1.4).
  - Alternative texts for graphical objects, image maps, drawing layers and hyperlinks were added (sections 9.2.20, 9.3.9 and 5.1.4).
  - An attribute to establish a relationship between graphical objects and captions was added (section 9.2.15).
  - An appendix E containing accessibility guidelines was added.

- The use of DDE and OLE was clarified (section 12.6).
- The measure units supported by attribute values of type “length” was clarified (chapter 16).
- The definition of the “positiveLength” data type was improved (chapter 16).
- The recommendations for event names to be used in event listener definitions was clarified (sections 11.6 and 12.4.1:Event Name).
- A style:writing-mode attribute was added for graphic styles (section 15.27.32).
- An appendix F containing information on bidirectional (BiDi) scripts, numeric digits presentation and calendars was added.
- The following errors in the schema were corrected:
  - Section 8.5.2:Null Date: The attribute “table:date-value" was misspelled “table:date-value-type”.
  - Section 9.2.19:Align: An “<optional>” element was missing.
  - Section 13.1: For the elements described in this section, the schema referenced “common-fill-timing-attlist” instead of “common-timing-attlist”.
  - Section 13.4.1:Repeating Elements: The value “indefinite” was missing for the “smil:repeatCount” attribute, and an “<optional/><optional>” pair was missing between the attribute definitions of “smil:repeatCount” and “smil:repeatDur”.
  - Section 13.4.3: The element content for “<anim:seq>” was missing.
  - Section 13.4.4: The define “anim-iterate-attlist” was misspelled “anin-iterate-attlist”.
  - Section 13.4.4:The Target Element: Instead of referencing “common-anim-target-attlist”, the schema defined a subset of the defined attributes itself.
  - Section 14.4.1: A reference to “text-decls” was missing in the definition of “header-footer-content”.
  - Section 14.4.2: A reference to “office-forms” was missing in the definition of “presentation-notes”.
  - Section 14.6.1: The name attribute was missing the svg: namespace prefix.
  - Section 14.9.1:Position: The attribute value “right” was misspelled “rigth”.
  - Section 15.3.8: The definition was named “style-header-footer-attlist” instead of “style-header-footer-properties-attlist”.
  - Section 15.4.18: The schema for the "style:font-charset-asian" and "style:font-charset-complex" attributes was missing.
  - Section 15.5.35: The value "baseline" was missing.
  - Section 15.24.2:Kind: The attribute value “intensity” was misspelled “intesity”.
  - Section 15.27.22:Dynamic Wrap Threshold: The attribute “draw:dynamic-wrap-threshold” was misspelled “draw:dynamic-wrap-treshold”.
  - Section 15.31.3: The attribute “chart:interval-minor-divisor” was misspelled “chart:interval-minor”.
  - Section 15.36.7: The attribute value type of "smil:fadeColor" was not "color".
  - Appendix A: The "style-chart-properties-content" define referenced "style-properties-content" instead

of "style-chart-properties-content-strict".

- The referenced version of xmlschema part 2 has been updated to xmlschema part 2 second edition.
- The text and schema in section 8.3.1:Referencing Table Cells the text and schema was extended to allow for apostrophe characters in table names by escaping them through doubling in quoted names.
- In section 15.5.39, and “auto”-value has been added to the style:page-number attribute.
- In section 14.5.1:Row and Column Styles, the text:paragraph-style-name attribute was added.
- The presentation:show-end-of-presentation-slide attribute has been added to section 9.11.5:Presentation Settings.
- The example for addressing of sub-table cells has be clarified in section 8.2.6:Subtables.
- The descriptive text in section 4.6.4 was clarified and some examples were corrected.
- The example in section 4.3.2 was corrected.
- In section 17.5, the restrictions that exist for IRIs that are used within a packages were clarified.
- The descriptive texts in sections 8.1.2:Default Cell Style and 8.2.1:Default Cell Style were clarified.
- In the description of the example in section 15.5.35, "middle" was referred to as "center".
- The descriptive texts of sections 15.10 and 15.10.4 were corrected to refer to rows rather than columns.
- The white-space processing in section 5.1.1 was clarified.
- Various spelling errors were corrected.

Appendix F, “Acknowledgements (Non Normative)”, p. 719

{NOTE – This appendix is re-numbered from F to H, due to the insertion of new appendices.}

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Schema fragment line re-numbering

The following table documents the starting line number for each fragment of the Relax-NG schema for OpenDocument reproduced in Sections § 2 to § 16 inclusive of ISO/IEC 26300:2006, and indicates the revised starting line number that should apply as a result of the changes made by this Amendment.

Section number	***Section title***	***Sub-section title***	***Page(s)***	***Original starting line number(s)***	***Revised starting line number(s)***
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