# Open Document Format for Office Applications (OpenDocument) Version 1.2

## OASIS Standard

## 29 September 2011

### Specification URIs:

**This version:**

http://docs.oasis-open.org/office/v1.2/os/OpenDocument-v1.2-os.odt (Authoritative)
http://docs.oasis-open.org/office/v1.2/os/OpenDocument-v1.2-os.pdf
http://docs.oasis-open.org/office/v1.2/os/OpenDocument-v1.2-os.html

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http://docs.oasis-open.org/office/v1.2/csd06/OpenDocument-v1.2-csd06.pdf
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**Latest version:**

http://docs.oasis-open.org/office/v1.2/OpenDocument-v1.2.odt (Authoritative)
http://docs.oasis-open.org/office/v1.2/OpenDocument-v1.2.pdf
http://docs.oasis-open.org/office/v1.2/OpenDocument-v1.2.html

**Technical Committee:**

OASIS Open Document Format for Office Applications (OpenDocument) TC

**Chairs:**

Rob Weir, IBM
Michael Brauer, Oracle Corporation

**Editors:**

Patrick Durusau
Michael Brauer, Oracle Corporation

**Related work:**

This specification supersedes OASIS OpenDocument v1.1 [ODF11].

This specification consists of this document as well as the following documents, schemas and ontologies:


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OpenDocument v1.2 part 1: OpenDocument Schema
OpenDocument v1.2 part 2: Recalculated Formula (OpenFormula) Format
OpenDocument v1.2 part 3: Packages
OpenDocument v1.2 Relax NG Schema
OpenDocument v1.2 Manifest Schema
OpenDocument v1.2 Digital Signature Schema
OpenDocument v1.2 Metadata Manifest Ontology
OpenDocument v1.2 Package Metadata Manifest Ontology

**Declared XML namespaces:**

urn:oasis:names:tc:opendocument:xmlns:animation:1.0
urn:oasis:names:tc:opendocument:xmlns:chart:1.0
urn:oasis:names:tc:opendocument:xmlns:config:1.0
urn:oasis:names:tc:opendocument:xmlns:database:1.0
urn:oasis:names:tc:opendocument:xmlns:dr3d:1.0
urn:oasis:names:tc:opendocument:xmlns:drawing:1.0
urn:oasis:names:tc:opendocument:xmlns:form:1.0
urn:oasis:names:tc:opendocument:xmlns:manifest:1.0
urn:oasis:names:tc:opendocument:xmlns:meta:1.0
urn:oasis:names:tc:opendocument:xmlns:data style:1.0
urn:oasis:names:tc:opendocument:xmlns:office:1.0
urn:oasis:names:tc:opendocument:xmlns:presentation:1.0
urn:oasis:names:tc:opendocument:xmlns:script:1.0
urn:oasis:names:tc:opendocument:xmlns:table:1.0
urn:oasis:names:tc:opendocument:xmlns:text:1.0
urn:oasis:names:tc:opendocument:xmlns:style:1.0
urn:oasis:names:tc:opendocument:xmlns:xsl-fo-compatible:1.0
urn:oasis:names:tc:opendocument:xmlns:svg-compatible:1.0
urn:oasis:names:tc:opendocument:xmlns:smil-compatible:1.0
urn:oasis:names:tc:opendocument:xmlns:of:1.2
http://docs.oasis-open.org/ns/office/1.2/meta/odf#
urn:oasis:names:tc:opendocument:xmlns:manifest:1.0
urn:oasis:names:tc:opendocument:xmlns:digitalsignature:1.0
http://docs.oasis-open.org/ns/office/1.2/meta/pkg#

**Abstract:**

This specification consists of this document as well as the following three parts:

Part 1 defines an XML schema for office applications and its semantics. The schema is suitable for office documents, including text documents, spreadsheets, charts and graphical documents like drawings or presentations, but is not restricted to these kinds of documents.

Part 2 defines a formula language to be used in OpenDocument documents.

Part 3 defines a package format to be used for OpenDocument documents.

**Status:**

This document was last revised or approved by the OASIS Open Document Format for Office Applications (OpenDocument) TC on the above date. The level of approval is also listed above. Check the "Latest version" location noted above for possible later revisions of this document.

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 http://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


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the Intellectual Property Rights section of the Technical Committee web page (http://www.oasis-open.org/committees/office/ipr.php).

**Citation format:**

When referencing this specification the following citation format should be used:

**OpenDocument-v1.2**

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# 1 Introduction

## 1.1 Scope

This standard specifies the characteristics of an XML-based application-independent and platform-independent digital document file format, as well as the characteristics of software applications which read, write and process such documents. This standard is applicable to document authoring, editing, viewing, exchange and archiving, including text documents, spreadsheets, presentation graphics, drawings, charts and similar documents commonly used by personal productivity software applications.

This standard has three parts.

Part 1 defines an XML schema for office documents. Office documents includes text documents, spreadsheets, charts and graphical documents like drawings or presentations, but is not restricted to these kinds of documents.

Part 2 defines a formula language for OpenDocument documents.

Part 3 defines the package format for OpenDocument documents.

This standard, for illustrative purposes, describes functionality using terminology common in desktop computing environments that contain a display terminal, keyboard and mouse, attached to a computer hosting an operating system with a graphical user interface which includes user interface controls such as input controls, command buttons, selection boxes, etc.

However, this standard is not limited to such environments. The standard also supports the use of alternative computing environments, other form factors, non-GUI consumers and producers, and the use of assistive technologies, using analogous user interface operations.

## 1.2 Terminology

All text is normative unless otherwise labeled.

Within the normative text of this specification, the terms "shall", "shall not", "should", "should not", "may" and “need not” are to be interpreted as described in Annex H of [ISO/IEC Directives].

implementation-defined behavior: behavior that depends on the implementation and that each implementation shall document.

implementation-dependent behavior: behavior that depends on the implementation. The implementation is not required to document which behavior occurs.

**Note:**: Usually, the range of possible behaviors is delineated by the Standard.

undefined behavior: behavior for which the Standard imposes no requirements. Undefined behavior may also be expected when the standard omits the description of any explicit definition of behavior.

## 1.3 Normative References

[**ISO/IEC Directives**] ISO/IEC Directives, Part 2 (Fifth Edition) *Rules for the structure and drafting of International Standards*, International Organization for Standardization and International Electrotechnical Commission, 2004.


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The individual parts of the OpenDocument specification each defines its own set of normative references.

## 1.4 Non Normative References

[**ODF11**] OASIS Standard, *Open Document Format for Office Applications (OpenDocument) v1.1*, February 2007, http://docs.oasis-open.org/office/v1.1/OS/OpenDocument-v1.1.pdf.

The individual parts of the OpenDocument specification each contains further non normative references.


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# 2 Conformance

The OpenDocument specification defines conformance for documents, consumers, producers, packages, package consumer, package producers, formula expressions and formula evaluators, with multiple conformance classes.

(C1) A *conforming OpenDocument Document* shall meet the requirements defined in part 1 section 2.2.1 and chapters 3 to 20 for OpenDocument documents..

(C2) A *conforming OpenDocument extended Document* shall meet the requirements defined in part 1 section 2.2.2 and chapters 3 to 20 for OpenDocument extended documents.

(C3) A *conforming OpenDocument Text Document* shall meet the requirements defined in part 1 section 2.2.3 and chapters 3 to 20 for OpenDocument Text documents.

(C4) A *conforming OpenDocument Spreadsheet Document* shall meet the requirements defined in part 1 section 2.2.4 and chapters 3 to 20 for OpenDocument Spreadsheet documents.

(C5) A *conforming OpenDocument Drawing Document* shall meet the requirements defined in part 1 section 2.2.5 and chapters 3 to 20 for OpenDocument Drawing documents.

(C6) A *conforming OpenDocument Presentation Document* shall meet the requirements defined in part 1 section 2.2.6 and chapters 3 to 20 for OpenDocument Presentation documents.

(C7) A *conforming OpenDocument Chart Document* shall meet the requirements defined in part 1 section 2.2.7 and chapters 3 to 20 for OpenDocument Chart documents.

(C8) A *conforming OpenDocument Image Document* shall meet the requirements defined in part 1 section 2.2.8 and chapters 3 to 20 for OpenDocument Image documents.

(C9) A conforming *OpenDocument Formula Document* shall meet the requirements defined in part 1 section 2.2.9 and chapters 3 to 20 for OpenDocument Formula documents.

(C10) A conforming *OpenDocument Database Front End Document* shall meet the requirements defined in part 1 section 2.2.10 and chapters 3 to 20 for OpenDocument Database Front End documents.

(C11) A *Conforming OpenDocument Producer* shall meet the requirements defined in part 1 section 2.3.1 and chapters 3 to 20 for OpenDocument producers.

(C12) A *Conforming OpenDocument Extended Producer* shall meet the requirements defined in part 1 section 2.3.2 and chapters 3 to 20 for OpenDocument extended producers.

(C13) A Conforming *OpenDocument Consumer* shall meet the requirements defined in part 1 section 2.4 and chapters 3 to 20 for OpenDocument consumers.

(C14) A *conforming OpenDocument Formula Expression* shall meet the requirements defined in part 2 section 2.2 and chapters 3 to 8 for OpenDocument formula expressions.

(C15) A Conforming *OpenDocument Formula Evaluator* shall meet the requirements defined in part 2 section 2.3.1 and chapters 3 to 8 for OpenDocument formula evaluators.

(C16) A Conforming *OpenDocument Formula Small Group Evaluator* shall meet the requirements defined in part 2 section 2.3.2 and chapters 3 to 8 for OpenDocument formula small group evaluators.

(C17) A Conforming *OpenDocument Formula Medium Group Evaluator* shall meet the requirements defined in part 2 section 2.3.3 and chapters 3 to 8 for OpenDocument formula medium group evaluators.


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(C18) A Conforming *OpenDocument Formula Large Group Evaluator* shall meet the requirements defined in part 2 section 2.3.4 and chapters 3 to 8 for OpenDocument formula large group evaluators.

(C19) A *conforming OpenDocument Package* shall meet the requirements defined in part 3 section 2.2.1 and chapters 3 to 7 for OpenDocument packages.

(C20) A *conforming OpenDocument Extended Package* shall meet the requirements defined in part 3 section 2.2.2 and chapters 3 to 7 for OpenDocument extended packages.

(C21) A *Conforming OpenDocument Package Producer* shall meet the requirements defined in part 3 section 2.3.1 and chapters 3 to 7 for OpenDocument package producers.

(C22) A *Conforming OpenDocument Package Extended Producer* shall meet the requirements defined in part 3 section 2.3.2 and chapters 3 to 7 for OpenDocument package extended producers.

(C23) A Conforming *OpenDocument Package Consumer* shall meet the requirements defined in part 3 section 2.4 and chapters 3 to 7 for OpenDocument package consumers.


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# Appendix A. Changes From Previous Specification Versions (Non Normative)

## A.1. Changes from “Open Document Format for Office Applications (OpenDocument) v1.1”

The OpenDocument specification has been divided into three parts and has been restructured. A more detailed list of changes is included in parts 1 and 3. Part 2 contains content that is new in OpenDocument v1.2.


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# Appendix B. Acknowledgments (Non Normative)

The following individuals have participated in the creation of this specification and are gratefully acknowledged:

**Participants:**

Chieko Asakawa, IBM
Waldo Bastian, Intel Corporation
Thorsten Behrens, Novell
Nathaniel Borenstein, IBM
Michael Brauer, Oracle Corporation
Pete Brunet, IBM
Manuel Cano
Suresh Chande, Nokia Corporation
Robin Cover, OASIS
Pierre Ducroquet
Jerome Dumonteil, Ars Aperta
Patrick Durusau
Cherie Ekholm, Microsoft Corporation
Ezer Farhi
David Faure
Jean Gouarne, Ars Aperta
Andreas J. Guelzow
Bettina Haberer, Sun Microsystems
Dennis E. Hamilton
Bart Hanssens, Fedict
Donald Harbison, IBM
Mingfei Jia, IBM
Bob Jolliffe
Peter Junge
Kazmer Koleszar, MultiRacio Ltd.
Peter Korn, Oracle Corporation
Jirka Kosek
Robin LaFontaine
Marcus Lange, Sun Microsystems
David LeBlanc, Microsoft
Fong Lin, Novell
Jun Ma, Beijing Redflag Chinese 2000 Software Co., Ltd.
Yue Ma, IBM
John Madden, Duke University
Doug Mahugh, Microsoft Corporation
Ben Martin, KDE e.V.
James Mason, ISO/IEC JTC1/SC34
Tristan Mitchell
Duane Nickull, Adobe Systems
Michael Paciello
Ganesh Paramasivam, KDE e.V.
Eric Patterson, Microsoft Corporation
David Pawson
Steven Pemberton, Stichting Centrum voor Wiskunde & Informatica
Stephen Peront, Microsoft Corporation
Asokan Ramanathan, IBM
Eike Rathke, Oracle Corporation
Florian Reuter, Novell
Janina Sajka


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Svante Schubert, Oracle Corporation
Charles Schulz, Ars Aperta
Richard Schwerdtfeger, IBM
Douglas Schepers
Wei Guo Shi, IBM
Michael Stahl, Oracle Corporation
Yan Shi, Beijing Sursen International Information Technology Co., Ltd.
Jomar Silva, OpenDocument Format Alliance
Frank Stecher, Sun Microsystems
Hironobu Takagi, IBM
Malte Timmermann, Oracle Corporation
John Tolbert, The Boeing Company
Elias Torres, IBM
Warren Turkal, Google Inc.
Jos van den Oever, KDE e.V.
Alex Wang, Beijing Sursen International Information Technology Co., Ltd.
Robert Weir, IBM
Oliver-Rainer Wittmann, Oracle Corporation
David A. Wheeler
Cheng XiuZhi, Beijing Redflag Chinese 2000 Software Co., Ltd.
Panrong Yin, IBM
Kohei Yoshida, Novell
Helen Yue, IBM
Jin YouBing, Beijing Redflag Chinese 2000 Software Co., Ltd.
Thorsten Zachmann, Nokia Corporation
Thomas Zander, Nokia Corporation
Pine Zhang, UOML Alliance


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