INTERNATIONAL STANDARD

ISO/IEC 26300-2

First edition
2015-07-01

Information technology — Open Document Format for Office Applications (OpenDocument) v1.2 —

Part 2: Recalculated Formula (OpenFormula) Format

Technologies de l'information — Format de document ouvert pour applications de bureau (OpenDocument) v1.2 —

Partie 2: Format de formule (OpenFormula) recalculé

Reference number
ISO/IEC 26300-2:2015(E)

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Published in Switzerland

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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ISO/IEC 26300-2:2015 was prepared by the OASIS OpenDocument Technical Committee [as OASIS Open Document Format for Office Applications (OpenDocument) v1.0 (second edition)] and was adopted, under the PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by the national bodies of ISO and IEC. The content of ISO/IEC 26300-2 and OASIS OpenDocument v1.0 2nd ed. is identical.

ISO/IEC 26300-2 consists of the following parts, under the general title *Information technology — Open Document Format for Office Applications (OpenDocument) v1.2*:

— *Part 1: OpenDocument Schema*

— *Part 3: Packages*

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Open Document Format for Office Applications (OpenDocument) Version 1.2

Part 2: Recalculated Formula (OpenFormula) Format

OASIS Standard

29 September 2011

Specification URIs:

This version:

http://docs.oasis-open.org/office/v1.2/os/OpenDocument-v1.2-os-part2.odt (Authoritative)
http://docs.oasis-open.org/office/v1.2/os/OpenDocument-v1.2-os-part2.pdf
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http://docs.oasis-open.org/office/v1.2/OpenDocument-v1.2-part2.odt (Authoritative)
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Related work:

This document is part of the OASIS Open Document Format for Office Applications (OpenDocument) Version 1.2 specification.

The OpenDocument v1.2 specification has these parts:

OpenDocument v1.2 part 1: OpenDocument Schema
OpenDocument v1.2 part 2: Recalculated Formula (OpenFormula) Format (this part)
OpenDocument v1.2 part 3: Packages

Declared XML namespaces:

None.

Abstract:

This document is part of the Open Document Format for Office Applications (OpenDocument) Version 1.2 specification.

It defines a formula language to be used in 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/.

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Citation format:

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

OpenDocument-v1.2-part2

Open Document Format for Office Applications (OpenDocument) Version 1.2 Part 2: Recalculated Formula (OpenFormula) Format. 29 September 2011. OASIS Standard. http://docs.oasis-open.org/office/v1.2/os/OpenDocument-v1.2-os-part2.html.

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1 Introduction

1.1 Introduction

This document is part of the Open Document Format for Office Applications (OpenDocument) Version 1.2 specification. It defines a formula language for OpenDocument documents, which is also called OpenFormula.

OpenFormula is a specification of an open format for exchanging recalculated formulas between office applications, in particular, formulas in spreadsheet documents. OpenFormula defines data types, syntax, and semantics for recalculated formulas, including predefined functions and operations.

Using OpenFormula allows document creators to change the office application they use, exchange formulas with others (who may use a different application), and access formulas far in the future, with confidence that the recalculated formulas in their documents will produce equivalent results if given equivalent inputs.

OpenFormula is intended to be a supporting document to the Open Document Format for Office Applications (OpenDocument) format, particularly for defining its attributes `table:formula` and `text:formula`. It can also be used in other circumstances where a simple, easy-to-read infix text notation is desired for exchanging recalculated formulas.

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].

1.3 Purpose

OpenFormula defines:

1. data types
2. syntax
3. semantics

for recalculated formulas.

OpenFormula also defines functions.

OpenFormula does not define:

1. a user interface
2. a general notation for mathematical expressions

1.4 Normative References

[**CharModel**] Martin J. Dürst, et. al., *Character Model for the World Wide Web 1.0: Fundamentals*, http://www.w3.org/TR/2005/REC-charmod-20050215/, W3C, 2005.

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