eZ Open Document Format (eZODF) Extension

Documentation

version 2.0

Table of Contents

1. Introduction

The eZ Open Document Format (eZODF) extension integrates eZ Publish (version 3.8 and higher) with OpenDocument Text (.odt) documents. It supports both importing and exporting .odt documents. Documents can be written and read in either the OpenOffice.org Writer application or in Microsoft Word. Microsoft Word documents are converted to OpenDocument Text format via an installation of OpenOffice.org installed in the web server.

1.1. Target audience

This manual describes how to perform basic importing and exporting operations with the eZODF version 2.0 extension. It is intended for anyone working with this extension in the Administration Interface or the Website Interface. For information on how to use and navigate the Administration Interface, refer to the eZ Publish User Manual at http://ez.no/doc. For information about using the Website Interface, refer to http://ez.no/doc/extensions/website_interface.

1.2. Conventions

- Code samples, functions, variable names, and on are printed in `monospace font`.

- Filenames and paths are printed in `monospace italic font`.

- Commands are printed in **`monospace bold font`**.

- Elements of graphical user interfaces (such as buttons and field labels) are printed in **bold font**.

- Component names (such as an application) are capitalized, for example "Administration Interface".

- In sample URLs, replace "example.com" with the domain name of your site.

- The screenshots in this document might have been modified to fit the page or to illustrate a point, and therefore might not exactly match the display on your site.

1.3. More resources

For assistance with eZODF or eZ Publish, refer to the following resources:

- **eZ Publish documentation**: eZODF is an extension to eZ Publish. Documentation for shared features is not reproduced in these manuals. Instead, where appropriate, there are links in this document to the online versions of the eZ Publish documentation, located at http://www.ez.no/doc.

- **eZ Publish forums**: The forums on the eZ Systems website are a valuable community-driven resource, where eZ Publish users provide assistance and support to each other. Accessing the forums is free. The forums are located at http://ez.no/community/forum.

- **Support from eZ Partners**: eZ's global network of partners provide professional assistance for all eZ products. To find a partner, contact sales@ez.no.

- **Other eZ solutions**: For information about other solutions provided by eZ Systems, refer to http://ez.no/products/solutions.

- **Training and certification**: eZ Systems and eZ Partners offer training courses and certifications for eZ Publish. Contact sales@ez.no or visit http://ez.no/services/training for more information.

- Open Document Format: For information about the specification, refer to http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=office

1.4.   Contacting eZ

For non-technical questions regarding eZODF, eZ Publish or eZ Systems, please contact us:

- http://ez.no/company/contact

- info@ez.no

We welcome your suggestions and comments on this manual. Please write to team-knowprod@ez.no.

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2.   Requirements

This extension supports eZ Publish 3.8 and later. It might work on earlier versions back to version 3.5, but this is not officially supported or recommended.

Either the zlib extension must be enabled in your PHP installation or you need to have the command-line versions of zip and unzip available on your operating system. These are needed to create and unpack the zip files that make up OpenDocument Text (.odt) documents.

2.   Installation

Unpack the `tar.gz` archive and place the `ezodf` folder under the `extension` folder in the eZ Publish installation. Enable the eZODF extension in the eZ Publish Administration Interface under the **Setup->Extensions** menu.

Note: if you want to upload large documents you need to increase the upload memory limit in PHP. This is configured in the `php.ini` configuration file.
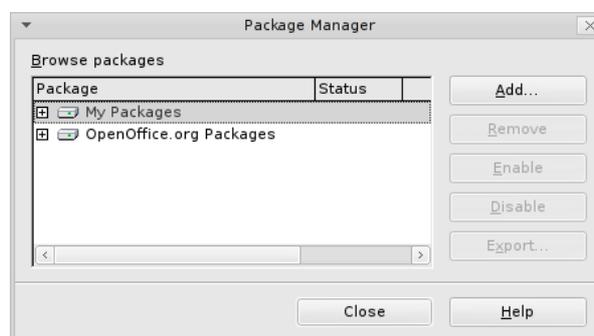
2.1.   *Microsoft Word import configuration*

To install Microsoft Word import support you need to do the following on your web server:

1.   Install OpenOffice.org 2.x

2.   Install document conversion macros in OOo

3.   Start the document conversion daemon

The reason you need to have OpenOffice.org installed is that eZ Publish uses it to first convert the Word file formats to OpenDocument Text format, which is then imported. Tested formats include .doc and .rtf.

2.1.1.   **Installation of OpenOffice.org macros**

Go to the package manager interface in OpenOffice.org. This is found under **Tools -> Package Manager...**

Choose **My Packages** and click **Add...**

Then, select the file `extension/ezodf/doc/eZconversion.zip.`

2.1.2.   Starting the document conversion daemon

The document conversion daemon is a PHP script bundled with the extension. It communicates with OpenOffice.org and does the actual conversion of documents.

The script needs to be started with the CLI version of PHP, which means that you need to execute the following command from the command line:
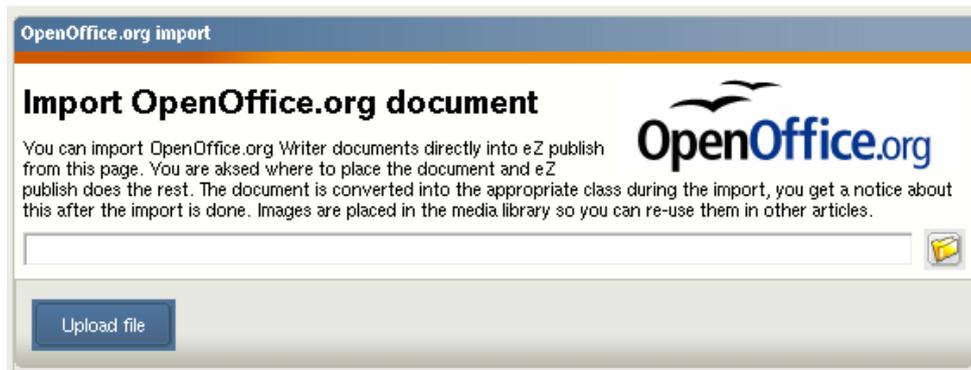
```
$ php extension/ezodf/daemon.php
```

Note: PHP must have been compiled with the following switches:

```
--enable-cli
--enable-pcntl
--enable-sockets
```

Also, the document conversion daemon will only run under Linux, as socket support in PHP does not work under Windows.
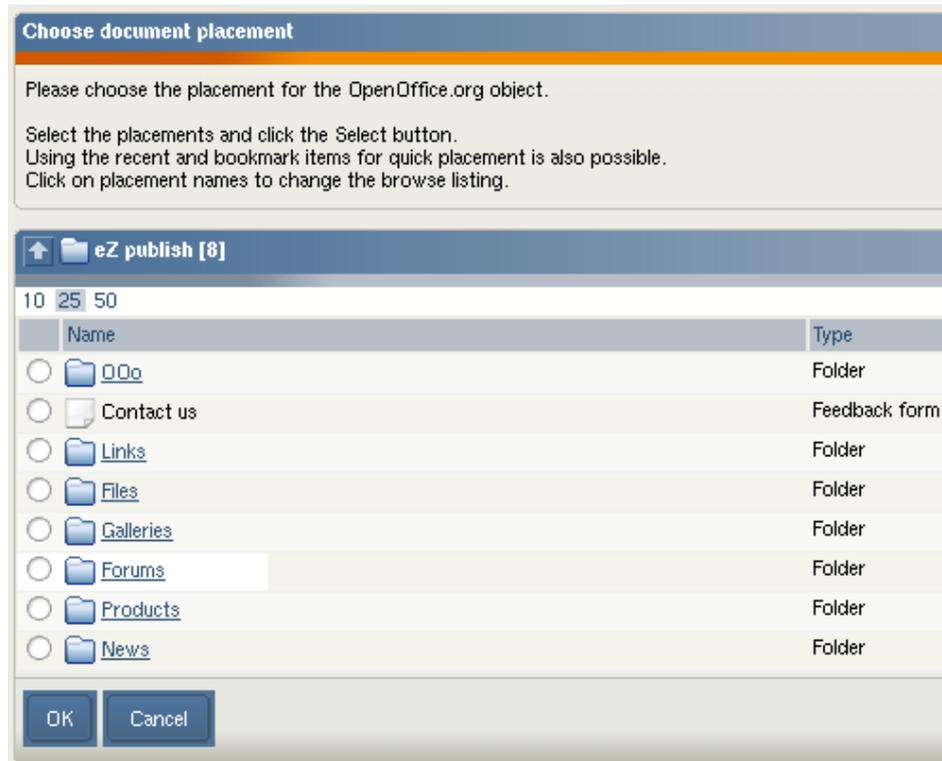
3. Importing

To import OpenDocument Text (.odt) documents to eZ Publish, access the URL *example.com/index.php/ezodf/import*. (Replace "*example.com/index.php"* with the URL for the **Administration Interface** of your eZ Publish site.)

The import screen is shown below. Browse your local filesystem for the .odt file to import, then click the **Upload file** button.

After uploading the file, you need to place it in the eZ Publish content node tree. The eZ Publish tree browser window is shown below. Find the container under which you wish to import the file, select the corresponding radio button, then click the **OK** button. To cancel the import, simply press the **Cancel** button.

If the import is successful you will see the screen below that provides a link to the imported object and the option to import more files.

3.1. Configuring imported documents

OpenDocument Text (.odt) documents are imported into the default eZ Publish content class as specified in the `odf.ini` configuration file. The title of the object is derived from the filename and the contents of the document are stored in the attributes defined in the `odf.ini` configuration file located in the `extensions/odf/settings/` folder.

The settings below show a configuration example where documents are imported as articles, the title is stored in the *title* attribute and the document contents are stored in the *body* attribute.

```
[ODFImport]
DefaultImportClass=article
DefaultImportTitleAttribute=title
DefaultImportBodyAttribute=body
```

Sections in .odt documents map to eZ Publish attributes. (Refer to the "Section" chapter in the OpenOffice.org documentation for information about configuring document sections.) For example, you can define sections in an .odt document that map to the title, introduction and body attributes, while another document can be imported as a product content class.

The sample documents in the *examples/* folder in the eZODF extension can be used for testing and as a guideline for configuring your site.

3.2. Supported datatypes

When importing OpenDocument Text (.odt) documents, there are some limitations to the datatypes that can store imported content. Currently the following datatypes are supported:

- Text line
- Text fields
- XML text
- Image
- Date
- Date and time
- Matrix

3.3. Supported formatting

When importing text into XML text fields, the following formatting styles are supported:

- Normal text
- Bold and italic text spans
- Text links
- Custom tags (such as a factbox)
- Numbered and bulleted lists (one level)
- Headers (multiple levels)
- Tables (without collapsed rows or columns)
- Embedded images
  - Alignment and size are supported
  - Image captions are not supported

4. Exporting

Any content object in eZ Publish can be exported to an OpenDocument Text (.odt) format document. There are, however, some limitations on the supported datatypes.

4.1. Supported datatypes

The following datatypes are currently supported:

- Text line
- Text field
- XML text
- Image
- Date
- Date and time
- Matrix

4.2. Supported formatting

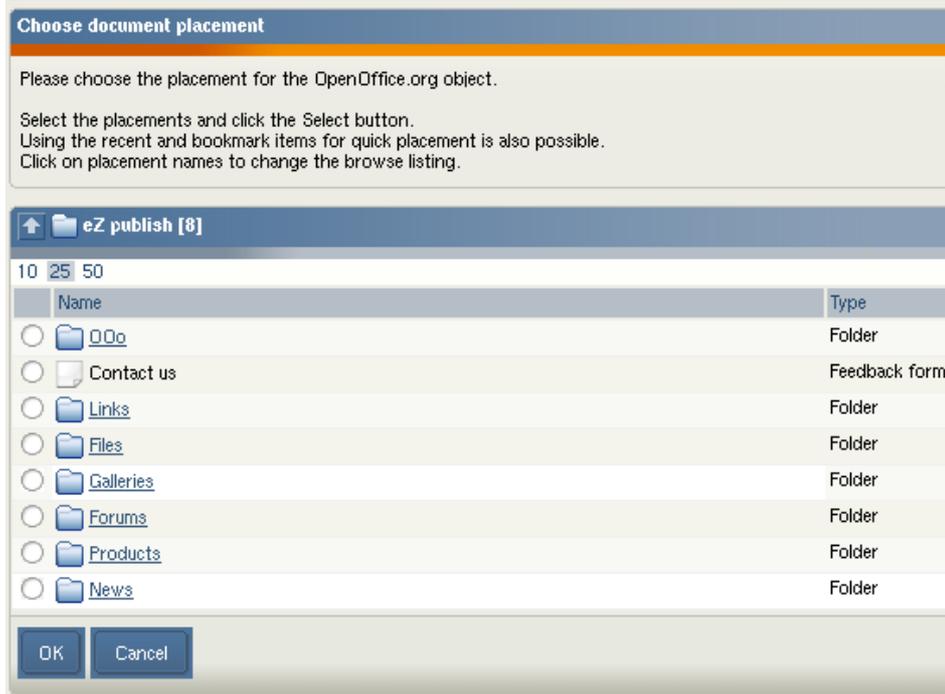When exporting XML text, the following formatting styles are supported:

- Normal text
- Text links
- Custom tags (such as a factbox)
- Headers
- Numbered and bulleted lists
- Tables (without collapsed rows or columns)
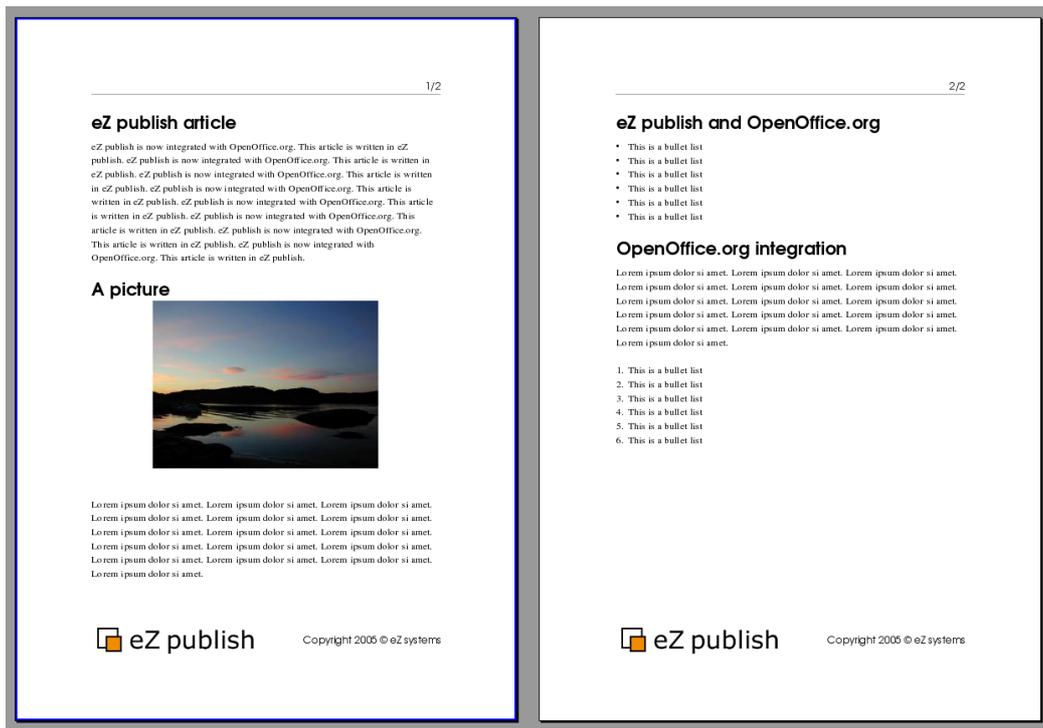- Embedded images

4.3. Export action

To export an object, access the URL *example.com/index.php/ezodf/export*. (Replace "*example.com/index.php*" with the URL for the **Administration Interface** of your eZ Publish site.) The initial export screen is shown in the screenshot below.

Click the **Export Object** button to proceed to the object browser screen shown below. Navigate to the object to export. Currently you can only export one object at a time; sub items are not included in the export.

After selecting the object for export and clicking the **OK** button, eZ Publish will perform the export. The document is served via the browser; you can choose to either download the document or open it directly in OpenOffice.org Writer (if it is installed on your computer and associated with the file type) or a similar word processor that supports .odt documents. The screenshot below shows a preview of an exported object. Notice the headers and footers; these are defined in OpenOffice.org Writer templates (described below).

4.4. Export templates

OpenDocument Text (.odt) documents can be exported using either the default OpenOffice.org styles or using a custom OpenOffice.org Writer template file. This is configured in the `ODFExport` section of the *odf.ini* configuration file. Set `UseTemplate` to `true` to enable the use of export templates. The actual template used needs to be placed in the *extension/ezodf/templates/* folder. The name of the template is specified in the `TemplateName` setting. Below is an example of this configuration.

```
[ODFExport]
UseTemplate=true
TemplateName=eztemplate.stw
```