Alkacon OAMP ExcelImport Module

Version 2.0.0

Contents

1 Abstract

This document explains the installation, configuration and usage of the Alkacon OpenCms Add-On Module Package ExcelImport version 2.0.0. With the ExcelImport module, it is possible to upload an Excel file to OpenCms and to create XML contents of a specific OpenCms resource type automatically using the Excel file records.

2 General purpose of the Alkacon OAMP ExcelImport Module

The module provides functionality to import an Excel file into OpenCms and to create XML contents automatically from the Excel records.

For each record, it is checked if there is a matching XML content file already present in OpenCms. If a matching XML content is found, it is updated with the changes in the Excel record.

If no existing XML content is found for a record, a new XML content is created.

It is also possible to publish newly created and changed XML content files as an option.

3 Installation

Note: To use the Alkacon OAMP ExcelImport Module, you need OpenCms version 8.0.1 or later. The module is not compatible with older OpenCms versions.

Step by step installation procedure:

1. Go to the OpenCms Administration view

2. Click "Module Management" and select either "Import Module from Server" if the module was placed in the /**WEB-INF**/**packages**/**modules**/ folder of your OpenCms installation, or select "Import Module with HTTP" to upload the module from your local file system.

3. Select the Alkacon OAMP ExcelImport module zip file **com.alkacon.opencms.v8.excelimport_2.0.x.zip** to import

4. Check if the jar file com.alkacon.opencms.v8.excelimport.jar has been deployed in the **WEB-INF**/**lib**/ folder after installation

5. Restart your servlet container afterwards

4 Module usage

This chapter describes the steps to use the Excel import module.

Subchapter 4.1 explains the optional module parameters.

The import configuration file is described in section 4.2.

The Excel file structure is explained in subchapter 4.3, and section 4.4 describes the steps to do for an Excel file import.

4.1 Module parameters

The following module parameters can be used to configure the module:

- **configurationpath:** This parameter defines the path in the OpenCms file system to the configuration files. One configuration file includes the complete configuration for one

OpenCms (XML content) resource type used while importing the Excel file. Per default this parameter is set to **/system/modules/com.alkacon.opencms.v8.excelimport/configurations**/. This folder contains an example configuration file for the resource type "photoalbum".

- **securitydialog:** This parameter enables or disables a confirmation dialog that lists the import parameters before the real import starts. Possible values for the parameter are true of false. Per default this parameter is set to **false**.
- **uploadproject:** This parameter defines the OpenCms project name in which the creation, update and publishing of XML contents should be done. Per default this parameter is not set, so per default the current project of the OpenCms user is used. If an invalid project name is specified, the current project of the OpenCms user is used.

4.2 Configuration file

The image below shows an example of a configuration file for the XML content resource type **v8news**.

In the field **OpenCms resource type** the OpenCms resource type has to be set. The Excel import will create XML content resources of the type specified here.

Text field **Interface** is to set only if the XML contents should not be placed into the current users directory or if file names should be generated differently. The default file name format for imported resources is ${OpenCms resource type name}_${successive number}.html.

The interface to implement for a different behaviour is com.alkacon.opencms.v8.excelimport.I_CmsVfsSettings.

There is to set at least one mapping between an Excel file column and XML content element in the configuration **Mappings[...]**. To map are the column names from the Excel file in the first row and the XML element names.

The following fields can be used to configure a mapping:

- **XML tag:** the XML element name. In case of a nested content index of the parent nodes has to be specified, e.g. Paragraph/...
- **Excel column:** the Excel column name in the first line of the Excel document that should be mapped to the XML element.
- **Weight:** this is used to check if a record has been previously imported. A high value makes this mapping more important if a record should be considered as existing.
- **Mandatory:** marks the value of the Excel column as mandatory, if there is no value specified in an Excel record, this record is skipped and not imported.

The last field **Weight** is used to determine when a record should be considered as an already existing changed content. If the sum of all weights of equal fields for a record for all mappings is equal or higher than the specified value, the record is considered to be existing and updated. If the sum is less than the specified value, a new XML content resource will be created.

Image 1: Configuration file

4.3 Excel file

4.3.1 Set property "Category" on the Excel file

The OpenCms resource type that should be created when importing an Excel file has to be defined in the **Category** property on the Excel file. For example: to auto-generate files of the OpenCms resource types **v8news** you have to set the property "Category" on the Excel file to **v8news**.

4.3.2 Rows and Columns of the Excel file

In the first row from excel file there are to set the column names which are used in the belonging configuration file.

Up from the second row there must be the records which shall become imported into OpenCms.

To export the excel file in an individual path in OpenCms, in the **keywords** property of the excel file the property is to set, for example: test/subtest/.

4.4 Excel import

To import an excel file there is to use the "New" dialog wizard of OpenCms by selecting the entry "Content item(s) from Excel", see Image 2.

After that the dialog from Image 3 appears. With file chooser you have to select the excel file to import. To publish new and updated XML contents you have to select the checkbox "Publish resources". To import the excel file you have to press button "Ok". After that the excel import starts, a new window appears with report from import.

If you have set module parameter securitydialog to true, before the import starts another dialog asks, if you really want to start the import. If anything is wrong configured, this dialog has this information and you can not start the import.
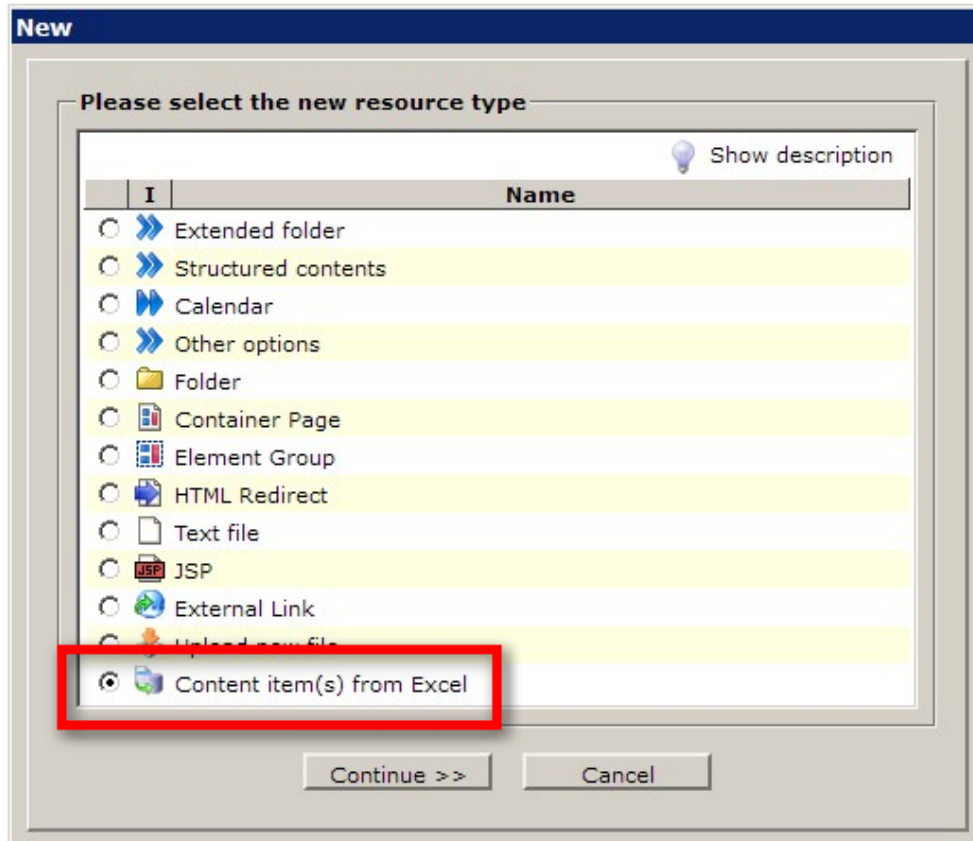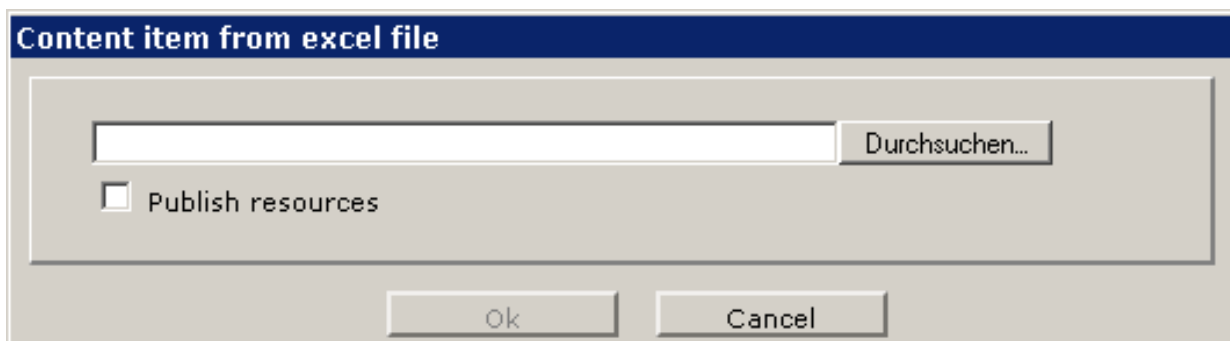

Image 2: "New" wizard dialog of OpenCms

Image 3: Excel file import

Content item(s) from Excel

Starting thread to import excel file.
No upload project in configuration, use current project: Offline ... **o.k.**
Configuration path: /system/modules/com.alkacon.opencms.v8.excelimport/cc
Import excel file: demo-file.xls.
Excel category property: v8news
Excel keywords property: null
Use configuration file: /system/modules/com.alkacon.opencms.v8.excelimport

Start importing excel file.
Importing line 2 to file /v8news_0001.html ... **o.k.**
Importing line 3 to file /v8news_0002.html ... **o.k.**
Importing line 4 to file /v8news_0003.html ... **o.k.**
Importing line 5 to file /v8news_0004.html ... **o.k.**
Importing line 6 to file /v8news_0005.html ... **o.k.**
End importing excel file.

Number of records in Excel: 5.
Number of invalid records: 0.
Number of successful imported records: 5.
Number of failed imported records: 0.
Number of successful updated records: 0.
Number of failed updated records: 0.
Number of unchanged records: 0.

Status of excel import: ... **o.k.**
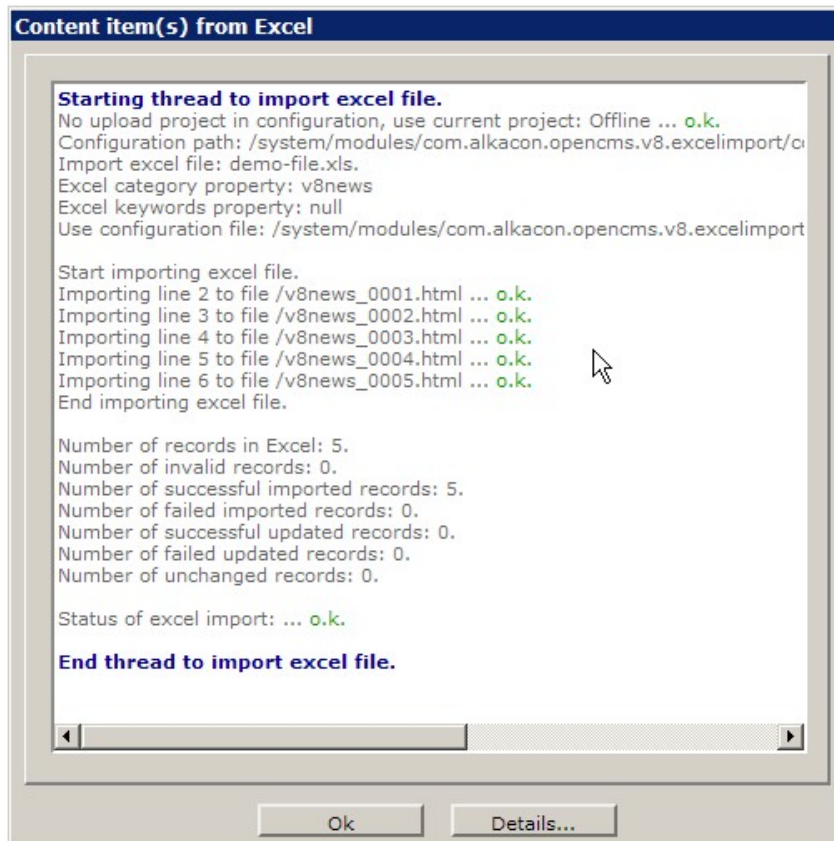
End thread to import excel file.

Ok   Details...

Image 4: Successful import of the Excel file