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#### OpenCms Days 2011

Workshop Track:

Upgrading from OpenCms 7.5 to OpenCms 8

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#### Agenda



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- Migrating from OpenCms 7.x to OpenCms 8
  - Export and Import in OpenCms
  - Using the Update-Wizard
  - Required changes
- 2. Benefits of using OpenCms 8 with your OpenCms 7.x webapp
  - Available OpenCms 8 features without any modifications
  - OpenCms 8 feature that require modifications
- 3. Usage of OpenCms 7.x elements in OpenCms 8
  - Transformation of "old style" elements into OpenCms 8 usable elements
  - How to display xmlcontents as OpenCms 8 elements
  - Parallel usage of elements in OpenCms 7 and OpenCms 8 templates
  - Usage of old content list as OpenCms 8 elements



#### Good news:

Your existing OpenCms 7.x webapp will run in OpenCms 8 – most likely without any changes ©

## Migrating from OpenCms 7.x to OpenCms 8



#### Two possible ways to migrate

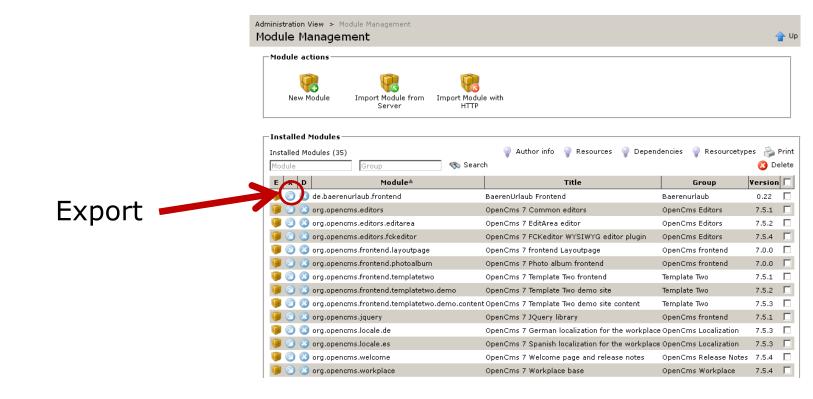
- Exporting modules and content from OpenCms
   7.x and import it into a new, fresh OpenCms 8
- Use the OpenCms Update-Wizard on your existing installation

Manual export and import of modules and content will result in a clean system

- Only the required modules and content need to be exported
- Uses Module & Database management in OpenCms
- BUT: Historic versions of resources will be lost!



- Step 1:
  - Export all required modules from OpenCms 7.x
  - Always export your modules from the root site!
  - Result: One .zip file for each module





#### • Step 2:

- Export the content from OpenCms 7.x
- Always export your content from the root site!
- Export content& accounts
- Multiple exports
   on large OpenCms
   installations
   (per site/folder)
- Result: One or more content export .zip files

Administration View > Database Management > Export Database  Export Database	<b>☆</b> Up
Export target zip file  Select file:  content	
Export type  Include resource data:   ✓ Include account data:   ✓ Include project data:   ✓ Include project data:   ✓	
Export settings  Include unchanged files:	4
Resource: Sites/travel/  Ok Cancel	<b>□</b> ♣ <b> ×</b>

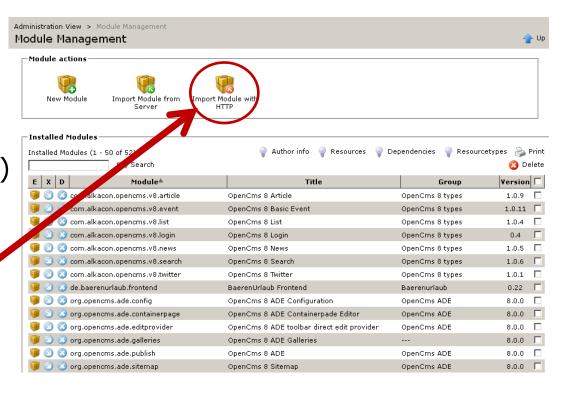


#### • Step 3:

- Import all required modules in OpenCms 8
- Always import your modules in the root site!
- Module imports are published automatically

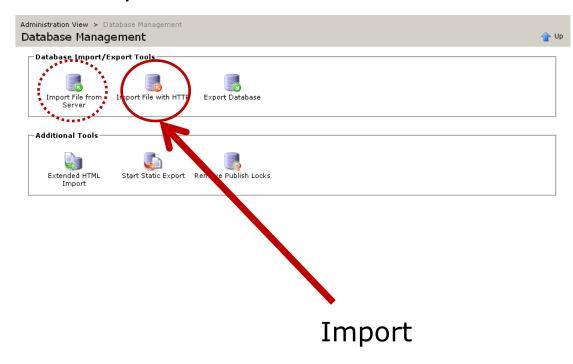
Do not forget libs!
 (if you have some)

**Impor** 



#### • Step 4:

- Import all content exports in OpenCms 8.0
- Always import your content in the root site!
- Large imports should be done via the server directly, very large imports should be unpacked on server
- Content must be published after import
- Restart Servlet-Container
- Done!



The Update Wizard automatically updates an existing OpenCms 7.x installation to OpenCms 8:

- Modification of the Database Structure
- Modification/Enhancement of the OpenCms configuration files
- Replacement of all Java libraries (where required)
- Update of all OpenCms core modules
- Existing content is untouched
- Historic versions remain

- Delete previous Update-Wizards!
- Deploy the Wizard
- Enable Wizard in opencms.properties:

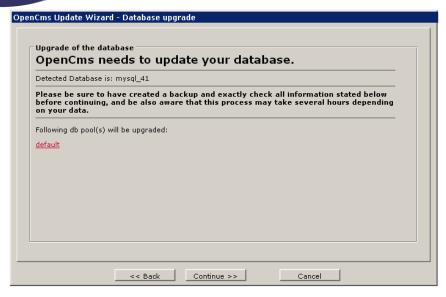
```
[...]
wizard.enabled=true
[...]
```

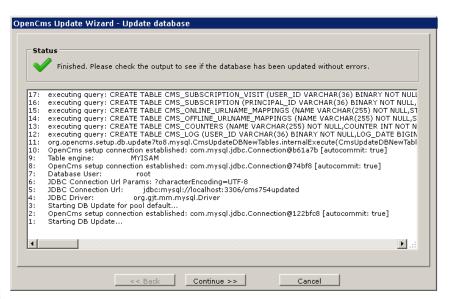
 Start the Wizard with http://[ServerName]/[WebappName]/update





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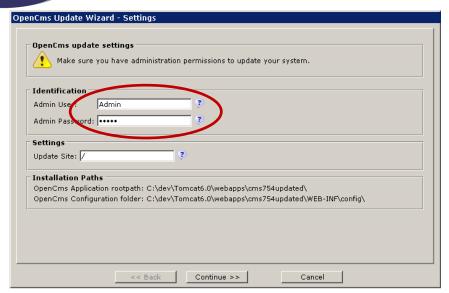
#### • Step 1:

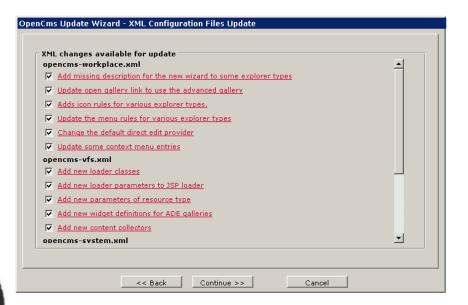
- Updates Database
   Structure
- New tables will be added

- Progress report
- Check for errors / warnings



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#### Step 2:

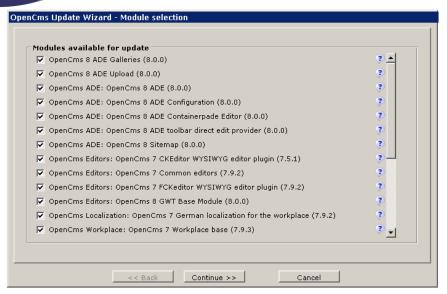
- Enter Admin account
- Enter update site

   (on multisite installation only one site required)

- Select configuration modifications (Default: all)
- Do only change something here, if you know what you are doing....

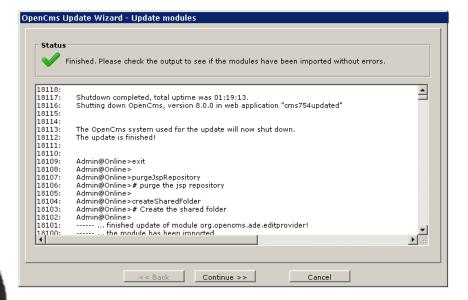


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Step 3:

- Select modules
- Recommendation:Select all modules!



- Progress report
- Check update.log for errors or warnings
- Restart Servlet-Container
- Done!

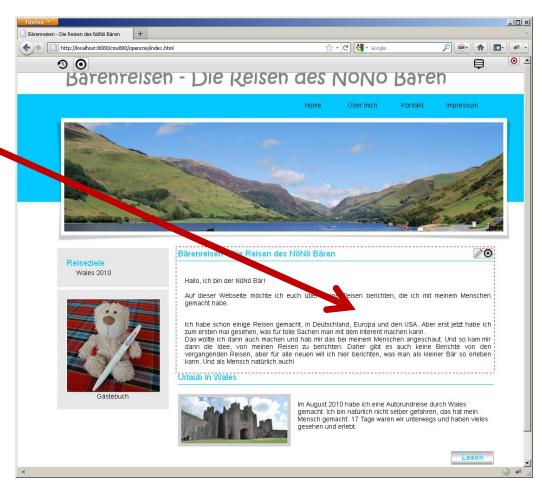


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... to OpenCms 8

#### From OpenCms 7.5.4....



#### Modifications that might be required:

- If you use <cms> Taglib and JSTL for your JSPs, no further modifications are required!
- It is possible that you have to modify your JavaBeans or scriplet code due to Core API changes
- BUT: Those changes are only minimal
  - Updating from OpenCms 6 to OpenCms 7 was much more complicated because of more API changes

# Benefits of using OpenCms 8 with your OpenCms 7.x webapp

The existing OpenCms 7.x webapp will run in OpenCms 8 as before, and uses the new features in your templates without any changes:

- OpenCms 8 Direct Edit / Availability
- OpenCms 8 Publishing
- New Upload Dialog
- New Galleries
- Shared Site

You will benefit of all Core-Bugfixes and enhancements since OpenCms 7.x

The existing OpenCms 7.x webapp does not use:

- OpenCms 8 Drag & Drop
- OpenCms 8 Configuration
- OpenCms 8 Sitemap

It is required to modify your XSD, templates and elements. It also requires additional configuration files in the OpenCms VFS.

The existing OpenCms 7.x webapp can use the none ADE-enhancements:

- Content Subscription Engine
- Device-Tag for device-depending templates
- XSD-Choice function

This requires changes to your templates and elements.

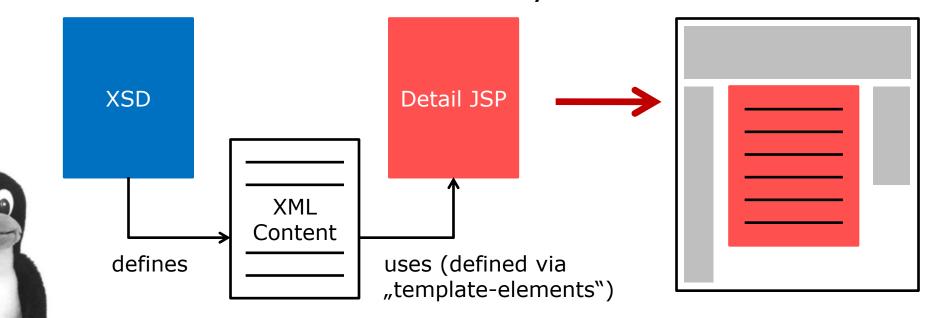


## Usage of OpenCms 7.x elements in OpenCms 8



In OpenCms 7.x the following components were involved in displaying your (structured) content:

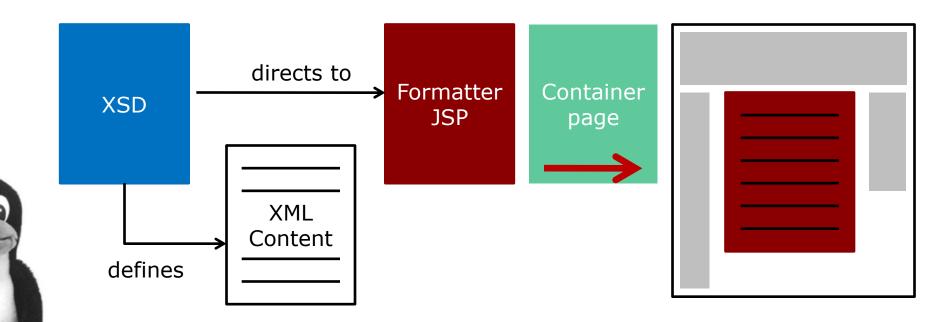
- XSD: Defines the structure of your content
- XML-content files: contain the content
- Detail-JSP: JSP to render your content





#### In OpenCms 8 this has changed:

- XSD: Defines the structure of your content and the formatter
- XML-content files: contain the content
- Formatter(s): JSPs to render your content





What must be done to transform your OpenCms 7.x contents and JSPs into drag&dropable elements in OpenCms 8?

#### The good answer:

- Only 3 easy steps are required!
- For "normal" contents it only takes a few minutes to do the modifications

#### Step 1: XSD: Add additional annotation nodes:

- <formatters>: Add one or more formatters to display the content (mandatory)
- Optional, often used additions:
  - <settings>: Settings that can be accessed in the formatters and whose values are defined via the ADE
  - <headincludes>: Includes of .js and .css files that must be included in the HTML-Head, like custom styles, needed Jquery imports, etc.



#### Changes in XSD (<xsd:appinfo> node):

[...]

```
<formatters>
    <formatter minwidth="400" uri=path_to_formatter.jsp" />
        <formatter minwidth="200" uri="path_to_other:formatter.jsp" />
        </formatters>
```

```
<settings>
    <setting name="boxschema" nice-name="Box Schema" type="string"
    widget="select" widget-config="box_schema1:Schema 1|box_schema2:Schema
    2|box_schema3:Schema 3" />
</settings>
```

```
<headincludes>
     <headinclude type="javascript" uri="path_to_js.js" />
     <headinclude type="css" uri="path_to_css.css" />
     </headincludes>
```



#### Step 2: Detail JSP is modified into a formatter:

- Replacement of <cms:contentload> with <cms:formatter>
  - In most cases a simple replacement of the two tags
- Optional: Create different formatters for different containers (left, middle, center,...)
- Configurable OpenCms 7.x structured content can be transformed in multiple formatters:



#### Transformation Detail-JSP -> Formatter

```
OpenCms 7 (Detail-JSP)
[...]
<cms:include property="template"</pre>
   element="head" />
<cms:contentload</pre>
   collector="singleFile"
   param="%(opencms.uri)"
   editable="true">
<cms:contentaccess var="content"</pre>
   scope="page" />
[...]
${content.value.Title}
</cms:contentload>
<cms:include property="template"</pre>
   element="foot" />
```

```
OpenCms 8 (Formatter)
[...]
<!-- no template-include -->
<cms:formatter var="content"</pre>
   val="value">
<!- no init of contentaccess -->
[...]
${content.value.Title}
[...]
</cms:formatter>
<!-- no template-include -->
```



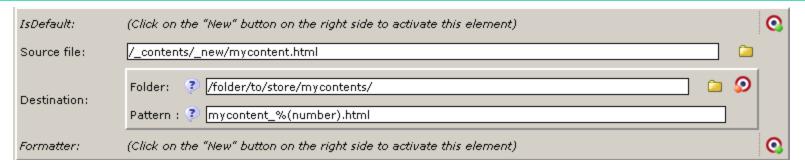
#### Detail-JSPs and formatter

- If you want to use your content "old style" and with OpenCms 8 templates simultaniously:
  - Make a copy of your old detail pages and modify it as a formatter
  - "Old style" will use "template-elements" property and the old detail page
  - OpenCms 8 -Template will use formatter information from XSD and new formatter jsp
- Additional fine tuning (divs, styles etc.) might be required in your new formatters





### Step 3: Registration of content types in the OpenCms 8 sitemap configuration



- Source File: The model file for this content
  - You have to create one model file via the Workplace -> New function
- Destination: Where to store new content
  - Folder: The folder in the VFS to store the content files
  - Pattern: The nameing patter for new content files
- Formatter (optional): Overwrites info in XSD



#### Usage of List-Elements

- List-Elements show a list of news, events, xmlcontent in general
- In OpenCms 7.x, we called it a "List-Jsp" with code like this:

```
[...]
<cms:contentload collector="allInSubTree" param="...">
[...]
<cms:contentaccess var="content" scope="page" />
${content.value.Title}
</cms:contentload>
[...]
```





## Content lists are now seen as content-types in OpenCms 8

- Define a new resource type for your list-element
  - Create the XSD
  - Transform the List-JSP into a formatter
  - Register the new defined contenttype

```
<cms:formatter>
<cms:contentload collector=,%{collector}" param=,%{colparam}">
[...]

<cms:contentaccess var="content" scope="page" />
${content.value.Title}
</cms:contentload>
</cms:formatter>
```



#### Optional: List configuration

- Selection of the collector / configuration of collector params
- Number of elements to be displayed
- Other options
- Make your list configurable within the new defined resourcetype via the content editor
- Make your list configurable with resourcetype settings in the <settings> node of the schema
- Combination of both is possible





#### Example of a configurable list (via the settings)

```
[...]
<cms:formatter>
<c:set var="collector"><cms:elementsetting name="collector"</pre>
  default="allInSubTree" /></c:set>
<c:set var="colparam"><cms:elementsetting</pre>
  name="colparam"/></c:set>
<cms:contentload collector=""${collector}" param=""${colparam}">
[...]
<cms:contentaccess var="content" scope="page" />
${content.value.Title}
</cms:contentload>
</cms:formatter>
[...]
```



### Summary

Upgrading to OpenCms 8 is easy

You can use your existing application like before

 It takes 3 easy Steps to use existing content in OpenCms 8 templates with all OpenCms 8 functions!



#### Our recommendation:

Update to OpenCms 8 now ©





### QUESTIONS?

# Fragen?

Any Questions?

¿Preguntas?

Ouestiones?



#### Thank you very much for your attention

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http://www.opencms.org