



OpenCms Days 2011

Workshop Track:

***Creating OpenCms 8 Container
Templates (Part 1)***

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- Basic concepts
 - Template
 - Container
 - Formatter
 - Element
 - Container Page
 - Site Map
 - Detail Page
- Concept details
 - Formatter configuration
 - Formatter JSP





Starting page

- Flower Today
- Flower Dictionary
- Flower Special
- Flower Extranet
- Flower Search

Starting page

This page is based on a structured content for articles. Such types can be defined by yourself for editing and rendering structured contents.

Wonderful World of Flowers



Wonderful World of Flowers presents the most spectacular and amazing stories about flowers from around the world. Entertaining and with lots of useful information. Let us take you into the adventurous world of flowers around the globe!

Overview

- Below **Flower Today** you will find all up-to-date news and information about flower-related events.
- The **Flower Dictionary** provides in-depth information about different flower types.
- If you already have access, you can find additional information inside our extranet, **Flower Extra**.

Most Recent News

Happy Mother's Day

May 8, 2011

The modern Mother's Day is celebrated on various days in many ... [> more](#)



Bizarre- the new flower printer

Dec 5, 2010

Since 2010, first-time a printer is existing which can print on ... [> more](#)



OpenCms 8 Containers

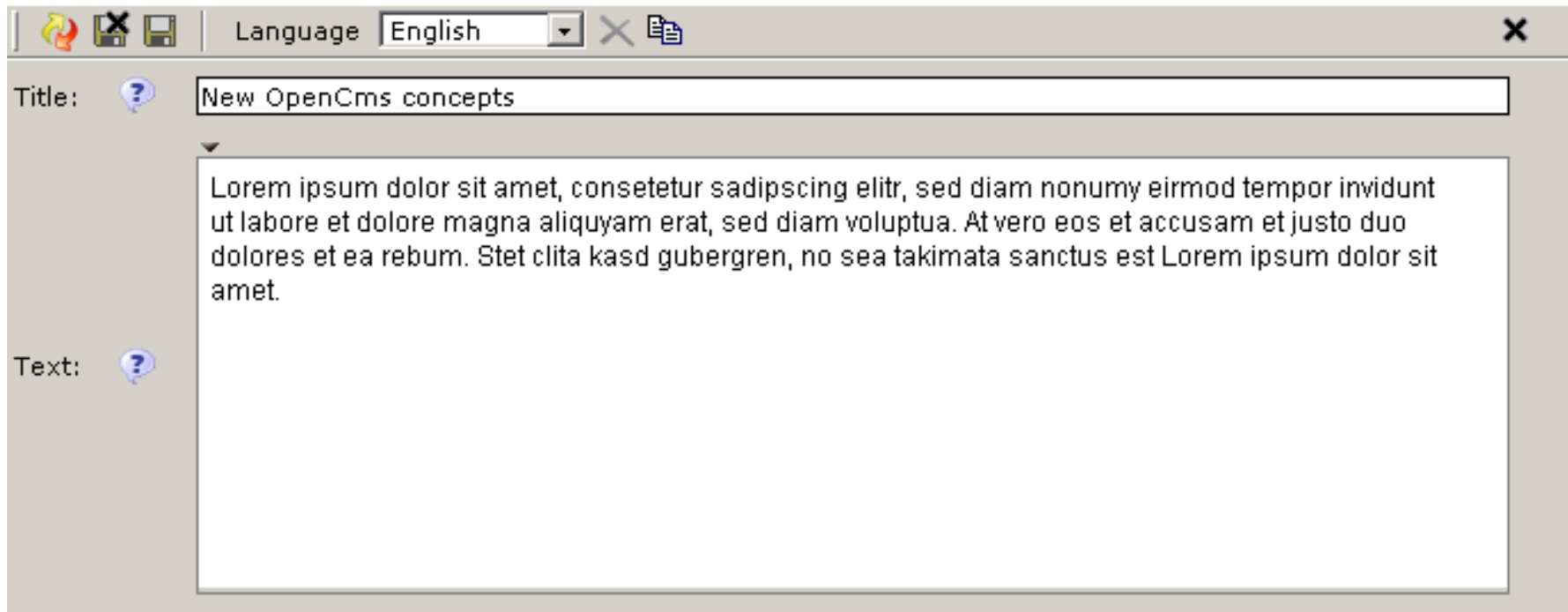
The container page of OpenCms 8 allows you to create and manage contents simple and efficient by drag & drop.

```
<html>
  <head> ... </head>
  <body>
    <div id="HEADER"> ... </div>
    <div id="NAVIGATION"> ... </div>
    <div id="LEFTCOLUMN">
      <div class="info">
        <h3>News Teaser</h3>
        <p>Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ...</p>
      </div>
    </div>
    <div id="CENTERCOLUMN">
      <div class="article">
        <h1>New OpenCms concepts</h1>
        <p>
          Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut
          labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores
          et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.
        </p>
      </div>
    </div>
    <div id="RIGHTCOLUMN">
      <div class="toolbox">
        <h3>Toolbox</h3>
        <p>Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ...</p>
      </div>
    </div>
    <div id="FOOTER"> ... </div>
  </body>
</html>
```



```
<%@ taglib prefix="cms" uri="http://www.opencms.org/taglib/cms" %>
<html>
  <head>
    ...
    <cms:enable-ade />
  </head>
  <body>
    <div id="HEADER"> ... </div>
    <div id="NAVIGATION"> ... </div>
    <cms:container name="LEFTCOLUMN" type="sidecolumn" width="200" />
    <cms:container name="CENTERCOLUMN" type="center" width="500" />
    <cms:container name="RIGHTCOLUMN" type="sidecolumn" width="200" />
    <div id="FOOTER"> ... </div>
  </body>
</html>
```





The screenshot shows a web-based article editor interface. At the top, there is a toolbar with icons for refresh, delete, and save, followed by a language dropdown menu set to 'English'. Below the toolbar, the 'Title' field contains the text 'New OpenCms concepts'. Underneath the title is a large text area containing a paragraph of Lorem Ipsum placeholder text: 'Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.' To the left of the text area, the label 'Text:' is visible with a help icon.



```
<%@ taglib prefix="cms" uri="http://www.opencms.org/taglib/cms" %>
<cms:formatter var="content">
  <div class="article">
    <h1>${content.value.Title}</h1>
    <p>${content.value.Text}</p>
  </div>
</cms:formatter>
```



```
<div class="article">
  <h1>New OpenCms concepts</h1>
  <p>
    Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed
    diam nonumy eirmod tempor invidunt ut labore et dolore magna
    aliquyam erat, sed diam voluptua. At vero eos et accusam et justo
    duo dolores et ea rebum. Stet clita kasd gubergren, no sea
    takimata sanctus est Lorem ipsum dolor sit amet.
  </p>
</div>
```



Container Page XML Content

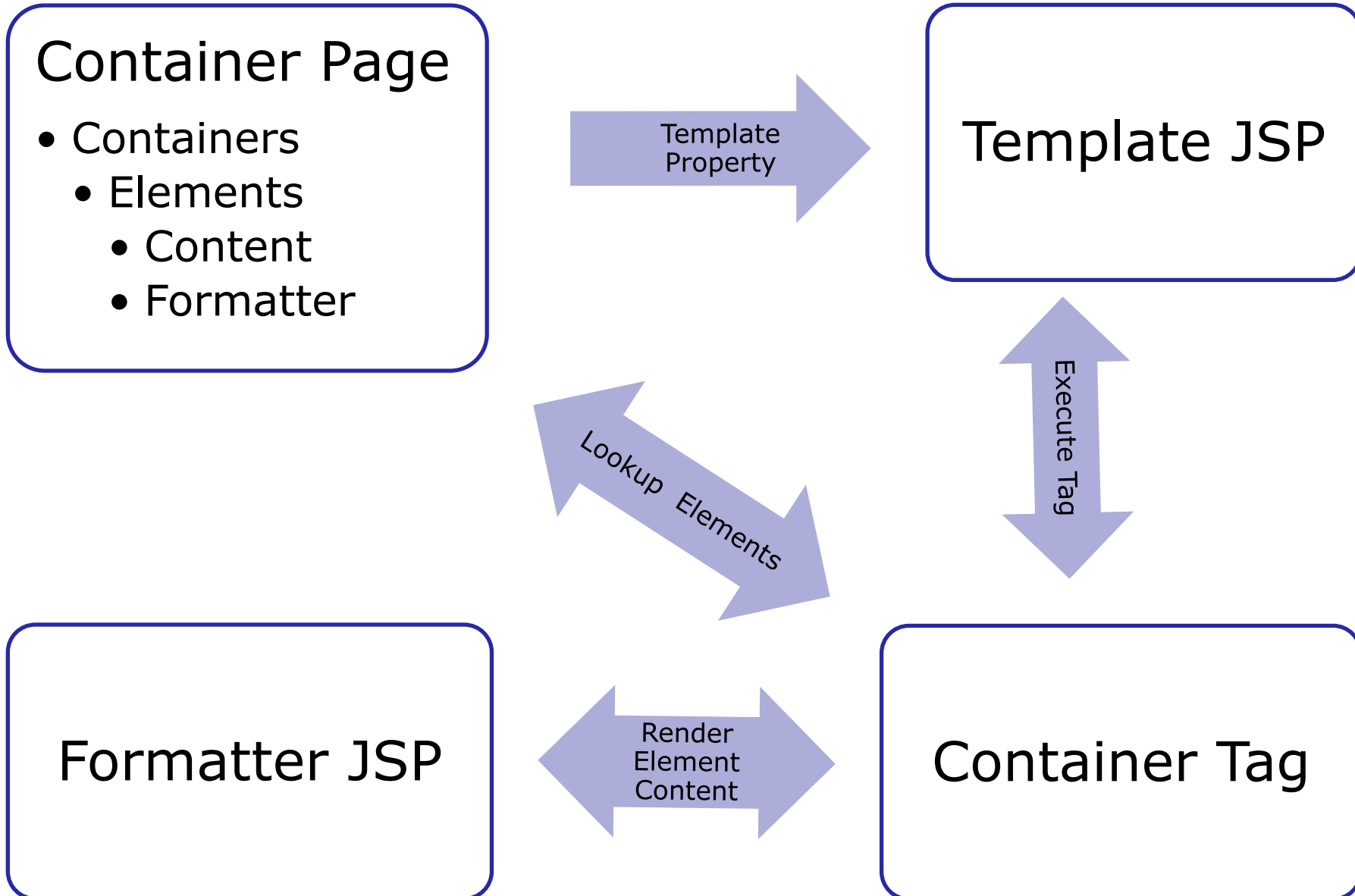
The screenshot displays the OpenCms Admin interface for editing XML content. The browser window title is "(Admin) - Editing /flower_en/index.html - Google Chrome". The address bar shows the URL "192.168.0.235:8080/opencms/opencms/system/workplace/editors/editor.jsp". The interface is in English. The main content area is divided into three sections, each representing a container configuration:

- Containers [1]:**
 - Name: headercontainer
 - Type: header
 - Uri: /_contents/configs/c_0001.html
 - CreateNew: (Click on the "New" button on the right side to activate this element)
 - Elements:
 - Formatter: /system/modules/com.alkacon.opencms.v8.template3/elements/config.jsp
 - Properties: (Click on the "New" button on the right side to activate this element)
- Containers [2]:**
 - Name: leftcontainer
 - Type: left
 - Uri: /_contents/articles/a_00038.html
 - CreateNew: (Click on the "New" button on the right side to activate this element)
 - Elements [1]:
 - Formatter: /system/modules/com.alkacon.opencms.v8.article/elements/side.jsp
 - Properties:
 - Name: boxschema
 - Value: String: box_schema2
 - Elements [2]:
 - Uri: /_contents/logins/lg_00001.html
 - CreateNew: (Click on the "New" button on the right side to activate this element)
 - Formatter: /system/modules/com.alkacon.opencms.v8.login/elements/all.jsp
 - Properties: (Click on the "New" button on the right side to activate this element)
- Containers [3]:**
 - Name: rightcontainer
 - Type: right
 - Uri: /_contents/searches/s_00001.html

At the bottom of the window, a status bar indicates: "User (Admin) logged in at 5/18/11 10:35 AM from 192.168.0.106".

- The Container Page XML structure contains container nodes holding content element nodes
- The content element nodes hold references to the XML content and the formatter JSPs to render those contents.





OpenCms 7

- Properties
- Java Beans
- XmlContent

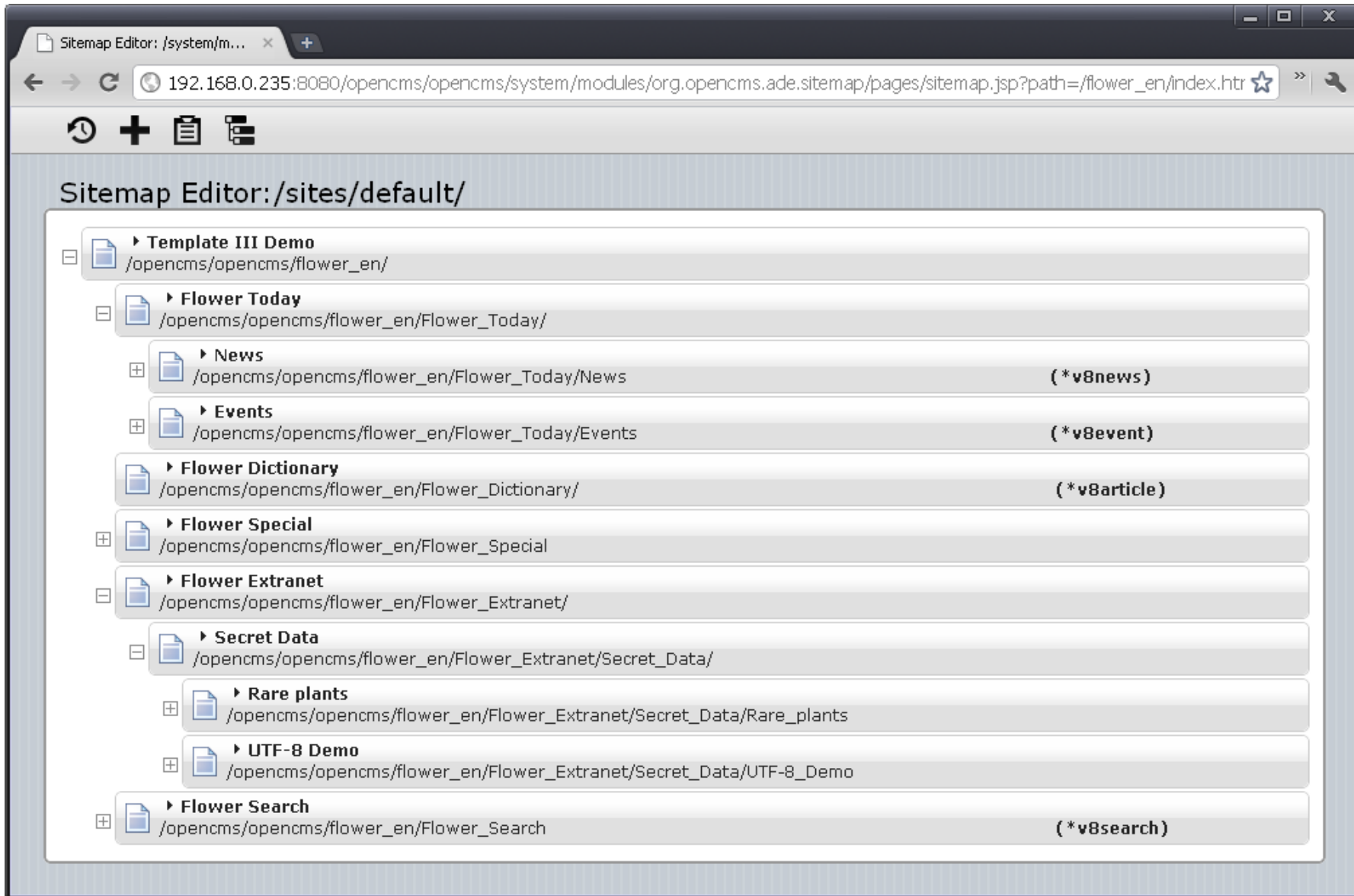
OpenCms 8

- Container Pages



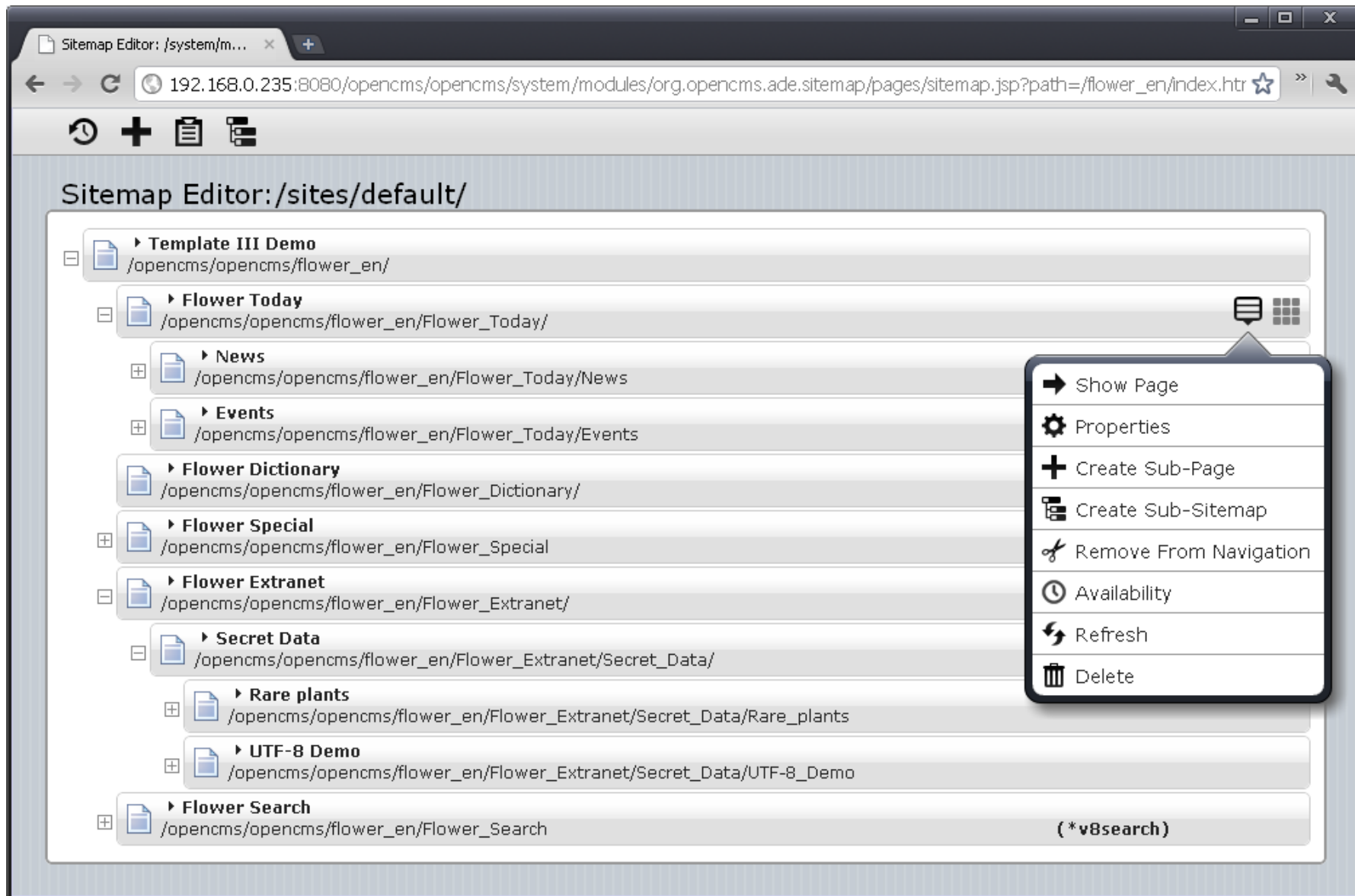
- The Site Map Editor is a new tool to organize and create the navigation structure of a site.
- The Editor is based on the same techniques and information used in previous OpenCms versions to build the navigation.
- Creating a new navigation entry in the Editor will create a folder and an 'index.html' file of the type 'containerpage' in the VFS with the needed properties.
- Navigation entries can be rearranged by drag and drop. The VFS resources are moved accordingly.





The screenshot shows a web browser window with the title "Sitemap Editor: /system/m...". The address bar contains the URL "192.168.0.235:8080/opencms/opencms/system/modules/org.opencms.ade.sitemap/pages/sitemap.jsp?path=/flower_en/index.htm". The browser toolbar includes back, forward, refresh, and search icons. The main content area displays "Sitemap Editor: /sites/default/" and a tree view of the site structure. The tree view is as follows:

- Template III Demo
 - /opencms/opencms/flower_en/
 - Flower Today
 - News (*v8news)
 - Events (*v8event)
 - Flower Dictionary (*v8article)
 - Flower Special
 - Flower Extranet
 - Secret Data
 - Rare plants
 - UTF-8 Demo
 - Flower Search (*v8search)



Sitemap Editor: /sites/default/

- ▶ **Template III Demo**
/opencms/opencms/flower_en/
- ▶ **Flower Today**
/opencms/opencms/flower_en/Flower_Today/
- ▶ **News**
/opencms/opencms/flower_en/Flower_Today/News
- ▶ **Events**
/opencms/opencms/flower_en/Flower_Today/Events
- ▶ **Flower Dictionary**
/opencms/opencms/flower_en/Flower_Dictionary/
- ▶ **Flower Special**
/opencms/opencms/flower_en/Flower_Special
- ▶ **Flower Extranet**
/opencms/opencms/flower_en/Flower_Extranet/
- ▶ **Secret Data**
/opencms/opencms/flower_en/Flower_Extranet/Secret_Data/
- ▶ **Rare plants**
/opencms/opencms/flower_en/Flower_Extranet/Secret_Data/Rare_plants
- ▶ **UTF-8 Demo**
/opencms/opencms/flower_en/Flower_Extranet/Secret_Data/UTF-8_Demo
- ▶ **Flower Search**
/opencms/opencms/flower_en/Flower_Search

(*v8search)

- Show Page
- Properties
- Create Sub-Page
- Create Sub-Sitemap
- Remove From Navigation
- Availability
- Refresh
- Delete

- The same XML Content can be rendered by different formatter JSPs.
- Which formatter JSP is used for which container can be configured either in the resource type schema or in the site map configuration.
- The formatter is chosen either by the container type or the given container width.




```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
  <xsd:include schemaLocation="opencms://opencms-xmlcontent.xsd"/>
  <xsd:element name="Articles" type="OpenCmsArticles"/>
  <xsd:complexType name="OpenCmsArticles">
    <xsd:sequence>
      <xsd:element name="Article" type="OpenCmsArticle" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="OpenCmsArticle">
    <xsd:sequence>
      <xsd:element name="Title" type="OpenCmsString" />
      <xsd:element name="Text" type="OpenCmsHtml" />
    </xsd:sequence>
    <xsd:attribute name="language" type="OpenCmsLocale" use="optional"/>
  </xsd:complexType>
  <xsd:annotation>
    <xsd:appinfo>
      <layouts>
        <layout element="Text" widget="HtmlWidget" configuration="height:200px,link,source"/>
      </layouts>
      <formatters>
        <formatter minWidth="100" uri="/system/modules/org.opencms.demo/elements/article/side.jsp" />
        <formatter minWidth="400" uri="/system/modules/org.opencms.demo/elements/article/center.jsp" />
      </formatters>
    </xsd:appinfo>
  </xsd:annotation>
</xsd:schema>
```



The container tag:

```
<cms:container name="CENTERCOLUMN"  
  type="center" width="500" />
```

Formatter definitions:

```
<formatter minWidth="400" maxWidth="700"  
  uri="..." />
```

```
<formatter type="center" uri="..." />
```



```
<tag>
  <description>
    This tag loads single XML content items for ADE formatters.
  </description>
  <name>formatter</name>
  <tag-class>org.opencms.jsp.CmsJspTagFormatter</tag-class>
  <body-content>JSP</body-content>
  <attribute>
    <name>var</name>
    <required>true</required>
    <rtextprvalue>true</rtextprvalue>
  </attribute>
  <attribute>
    <name>val</name>
    <required>>false</required>
    <rtextprvalue>true</rtextprvalue>
  </attribute>
</tag>
```



```
<cms:formatter var="content" val="v">
```

```
...
```

```
</cms:formatter>
```

Access content through:

```
`${content.value.Title}`
```

Or using optional shortcut:

```
`${v.Title}`
```



EL access the CmsJspStandardContextBean:

`${cms. ...}`

- `cms.vfs` → CmsJspVfsAccessBean
- `cms.requestContext` → CmsRequestContext
- `cms.element` → CmsContainerElementBean
- `cms.container` → CmsContainerBean
- `cms.page` → CmsContainerPageBean
- ...



Convenient taglib declaration:

```
<%@page session="false" taglibs="c,cms" %>
```

```
<opencms>
  <vfs>
    <resources>
      <resourceLoaders>
        ...
        <loader class="org.opencms.loader.CmsJspLoader" >
          <param name="taglib.cms">http://www.opencms.org/taglib/cms</param>
          <param name="taglib.c">http://java.sun.com/jsp/jstl/core</param>
          ...
        </loader>
      </resourceLoaders>
    </resources>
    ...
  </vfs>
</opencms>
```



```
<@page session="false" taglibs="cms" %>
<cms:formatter var="content" val="value">
  <div class="article">
    <h1>${value.Title}</h1>
    ${cms.requestContext.uri}
    ${cms.requestContext.currentUser.name}
    ${cms.element.sitePath}
    ${cms.container.width}
  </div>
</cms:formatter>
```



QUESTIONS ?

Fragen?

- Any Questions?

¿Preguntas?

Questiones?



Thank you very much for your attention

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<http://www.alkacon.com>

<http://www.opencms.org>

