How a telco successfully migrated to OpenCms
Showcase track
10.05.2011
Selver Softic
Agenda

- Introduction
- Showcase
- Our solution
- Special Features
- Velocity in OpenCms
- Conclusion
- Technical Discussion
About me

Selver Softic
Technology Consultant at Infonova
Department: Portals & Content
Worked for several years in R&D
Interests:
- Content Management
- Knowledge Management
- Social Media
- Semantic Web
Who are we?

Technology consultants since more than 15 years
A Bearing Point Company

Our Customers:
- Telcos
- Cable provides
- Energy Suppliers
- Automotive branch
What we do

We offer:

- Billing Solution (R6)
- IT – Infrastructure Solutions
- Tailor Made Solution
- Content Management Solutions
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Requirements:
Migrate from old Vignette OpenText CMS
Reduce Licence costs
Reduce Maintenance costs
Support Internationalisation
Support Replication
Provide Quick Support
Handle up to 2 Million Hits per day
Increase Usability for Editors
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Requirements continued:
Support import products from telekom shop
Support Hrefs
Support Home made search
Provide Direct Edit for Editor
Dock onto technical infrastructure
  ■ Maven
  ■ Oracle
  ■ Java
  ■ Solaris
Showcase Introduction 4/4

- Integration
- Production

Cluster managed with OCEE Module
Our Solution

Frontend by Velocity

- Java Template Engine
- Allows referencing Java Object
- Quite fast
- Flexible
Our Solution

Merchandising flash

Teasers

Link lists
Our Solution

Navigation

Ads
Our Solution

Shareable Product Info

Configurable areas
Our Solution

- Formulars
- Social Media
- XSL/XSLT transformations
- Shared Content
- Iframes ... etc.
Our Solution

Around 30 resource types
Our Solution

Metrics
- Couple of thousands of structured content instances
- Up to 2 million hits at peak time

Caching
- Flex cache for start page
- Additional caching features for Velocity
- Our flex cache patch is already included in v. 7.5.4.1
Special Features

File (Filter)

- Extension of File Selector Widget

```xml
<xsd:element name="ProdTabs" type="OpenCmsVarLink" minOccurs="1" maxOccurs="1" />

<layout element="ProdTabs" widget="VfsFileWidget" configuration="hidesiteselector|includefiles|projectaware|resourcetypeNames=TAProductTab" />
```
<xsd:choice> as extension for restrictive selection

<xsd:choice>
  <xsd:element name="ModRef" type="OpenCmsVfsFile" minOccurs="0" />
  <xsd:element name="Image" type="OpenCmsVfsFile" minOccurs="0" />
  <xsd:element name="ImageLink" type="OpenCmsTAImageLinkElement" minOccurs="0" />
  <xsd:element name="Flash" type="OpenCmsTAFlashLinkElement" minOccurs="0" />
  <xsd:element name="ShoppingCart" type="OpenCmsTAShoppingCartElement" minOccurs="0" />
</xsd:choice>
Velocity in OpenCms

- Based on Java Velocity

**Modules:**
- `at.infonova.opencms.modules.commons`
- `at.infonova.opencms.modules.templatehelper`
- `at.infonova.opencms.modules.velocity`

Rendering Pipeline

XSD/XML → Context Mapping → Velocity Engine → HTML, CSS, JavaScript

http://sourceforge.net/projects/bp-cms-commons/
Velocity in OpenCms

OCD.xsd
provides

<OCD>
  <Visitor>
    <Name> Selver Softic</Name>
    <Company>Infonova GmbH</Company>
  </Visitor>
  ....
  <Visitor/>
</OCD>
Velocity in OpenCms

OpenCmsDays: Map

Visitor: Map

- Name: string
- Company: string

Additionally Supported types: bool, date
Velocity in OpenCms

Currently out the box:

- cms
- servlet
- functions
- velocity

Additionally implemented for telco solution:

- ta
<opencms>
   <velocity>
       <velocity-context-objects>
           <velocity-context-object name="fn"
               factory-class="at.infonova.opencms.modules.velocity.contextobjects.FunctionsContextObject$Factory" />
           <velocity-context-object name="servlet"
               factory-class="at.infonova.opencms.modules.velocity.contextobjects.ServletContextObject$Factory" />
           <velocity-context-object name="velocity"
               factory-class="at.infonova.opencms.modules.velocity.contextobjects.VelocityContextObject$Factory" />
           <velocity-context-object name="directEdit"
               factory-class="at.infonova.opencms.modules.velocity.contextobjects.DirectEditContextObject$Factory" />
           <velocity-context-object name="cms"
               factory-class="at.infonova.opencms.modules.templatehelper.CmsVelocityTemplateHelper$Factory" />
           <velocity-context-object name="ta"
               factory-class="at.telekom.ppp.cms.template.TelekomVelocityContextObject$Factory" />
       </velocity-context-objects>
   </velocity>
</opencms>
Our contributions to OpenCms

Used Version: Infonova own built Version based on 7.5.3.1

- Infonova Modules:
  - [http://bp-cms-commons.sourceforge.net/m2site/infonova/infonova-opencms-demo/7.5.3.1/](http://bp-cms-commons.sourceforge.net/m2site/infonova/infonova-opencms-demo/7.5.3.1/)

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<th>Module</th>
<th>Description</th>
<th>Version</th>
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<td>at.infonova.opencms.modules.commons</td>
<td>INFONOVA Commons-Help-Classes</td>
<td>1.0</td>
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<td>INFONOVA Demo Content-Module</td>
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<td>at.infonova.opencms.modules.velocity</td>
<td>INFONOVA Velocity-Module</td>
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Conclusion

Project finished before deadline

Happy editors 😊

Fully integrated solution into technical structure

Licence costs reduced

On time delivery of requirements
Thank You!

Contact:
selver.softic@infonova.com
+43-316-8003-1147