

infonova



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 providers
- Energy Suppliers
- Automotive branch

We offer:

- Billing Solution (R6)
- IT – Infrastructure Solutions
- Tailor Made Solution
- Content Management Solutions

Showcase 1/4

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BearingPoint
Management
& Technology
Consultants

The screenshot shows the homepage of the original Telekom Austria website. At the top, there's a navigation bar with links for 'Privatkunden', 'Businesskunden', and 'Fernsehen'. Below this is a main menu with 'Produkte', 'Kundencenter', and 'Service & Hilfe'. A large banner features a woman sitting on a couch using a laptop. To the left of the banner, there's a 'Service und Hilfe' section with a link to 'Ihr Support-Bereich'. Below the banner are several promotional boxes for 'aonKombi', 'aonSuperKombi', and 'GigaSpeed' plans, each with a price of €19,90. On the right side, there's a 'Kundencenter' sidebar with links to 'Home Anleitung', 'Online-Rechnung', 'Online-Statistik', and 'Jetzt einsteigen'. A 'Quicklinks' sidebar on the far left includes links for 'Webmail', 'Online-Rechnung', 'Meine Angebote', 'Online-Statistik', 'Telefon Einstellungen', 'E-Mail Einstellungen', 'Video Statistik', and 'TV-Programm'. At the bottom, there's a footer with links for 'Kontakt', 'AGB', 'Portal AGB', 'Impressum', 'Sitemap', 'Karriere', 'Fragen & Antworten', and a copyright notice.



The screenshot shows the homepage of the improved infonova website. The layout is very similar to the original, with a green header, a main menu, and a large banner featuring a woman on a couch. The 'Service und Hilfe' section and 'Kundencenter' sidebar are also present. However, the promotional boxes for 'aonKombi', 'aonSuperKombi', and 'GigaSpeed' have been updated to include promotional offers like '3 Monate gratis!' and 'Gratis Aktivierung!'. The 'Quicklinks' sidebar has been simplified, and the 'Weitere Seiten' sidebar on the right now includes links for 'A1 Telekom Austria', 'Telekom Austria Group', 'Telekom Austria Wholesale', and 'A1.net'. The footer at the bottom includes links for 'Kontakt', 'AGB', 'Portal AGB', 'Impressum', 'Sitemap', 'Karriere', 'Fragen & Antworten', and a copyright notice.

OpenCms

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

Requirements continued:

Support import products from telekom shop

Support Hrefs

Support Home made search

Provide Direct Edit for Editor

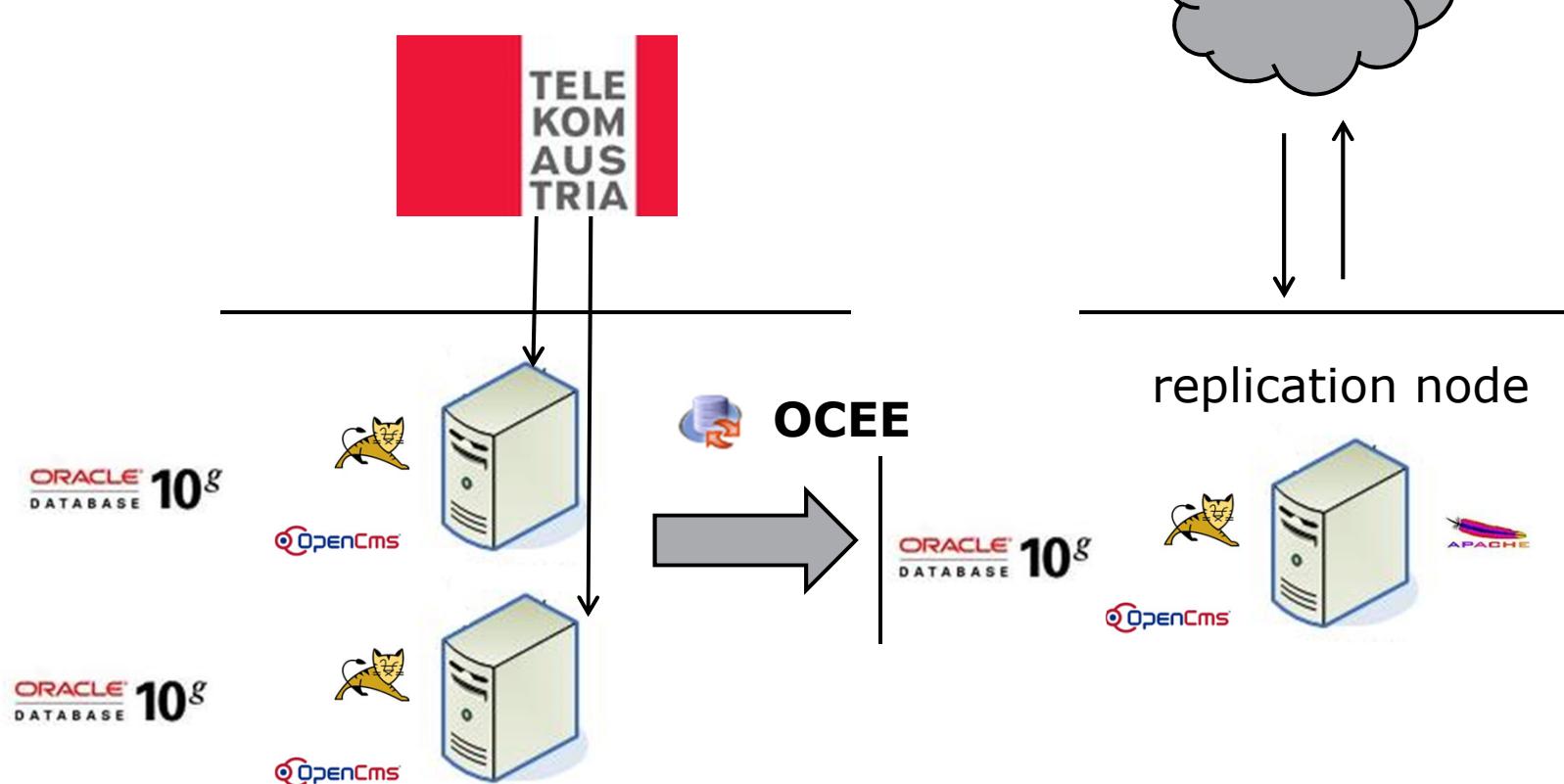
Dock onto technical infrastructure

- Maven
- Oracle
- Java
- Solaris

Showcase Introduction 4/4

- Integration
- Production

Cluster managed with OCEE Module



Frontend by Velocity

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

Our Solution

infonova

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The screenshot shows the homepage of the Telekom Austria website. At the top, there's a green header bar with a search bar and a 'SUCHEN' button. Below the header, there are tabs for 'Privatkunden', 'Businesskunden', and 'Fernsehen'. The main content area features several promotional banners:

- A banner for 'aonKombi' with a price of €19,90.
- A banner for 'aonSuperKombi' with a price of 24,90.
- A banner for 'GigaSpeed' with a price of 4,90.
- A banner for 'aonTV' with a offer for '6 Monate gratis testen'.
- A banner for 'aonTV App'.

On the left side, there's a sidebar with 'Quicklinks' for 'Webmail', 'Online-Rechnung', 'Meine Angebote', 'Online-Statistik', 'Telefon Einstellungen', 'E-Mail Einstellungen', 'Video Statistik', and 'TV-Programm'. On the right side, there are links for 'Kundencenter', 'Warenkorb', 'Webmail', 'Online-Festplatte', 'Produktberater', 'Sie haben Fragen?', 'Shop Standorte', 'Wechseln', and 'Weitere Seiten' which include links to 'A1 Telecom Austria', 'Telekom Austria Group', 'Telekom Austria', 'Vodafone', and 'A1.net'.

Merchandising flash

Teasers

Link lists

Our Solution

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Begriff eingeben **SUCHEN**

Privatkunden Businesskunden Fernsehen

TELE KOM AUS TRIA

Produkte Aktionen

[Privatkunden](#) > [Produkte](#) > [Aktionen](#)

aonKombi
unlimitiertes Highspeed-Internet für zuhause + Mobiltelefonie + Festnetz
Jetzt mit GRATIS-Internet-Herstellung!*
Zzgl. jährliche Internet Service Pauschale.

aonSuperKombi
Alles in einem:
aonTV das digitale Kabelfernsehen, Highspeed-Internet, Mobiltelefonie und Festnetz!
aonTV 6 Monate gratis testen!*
Zzgl. jährliche Internet Service Pauschale.

aonTV Basispaket
Das digitale Kabelfernsehen mit über 90 TV-Sendern
Ihr Einstieg in das digitale Kabelfernsehen!
6 Monate Gratis TESTEN!*
(Telekom Austria Anschluss ab € 15,98 pro Monat vorausgesetzt)

GigaSpeed
Noch schneller im GigaNetz von Telekom Austria surfen!
3 Monate gratis! Gratis Aktivierung!

Kundencenter Warenkorb Bestellbedingungen

Webmail Online-Festplatte Produktberater

Sie haben Fragen?

Weitere Seiten

- A1 Telekom Austria
- Telekom Austria Group
- Telekom Austria Wholesale
- A1.net

Produkte Kundencenter Warenkorb Bestellbedingungen

Webmail Online-Festplatte Produktberater

Sie haben Fragen?

Weitere Seiten

- A1 Telekom Austria
- Telekom Austria Group
- Telekom Austria Wholesale
- A1.net

Navigation

Ads

Our Solution

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	Euro
aonKombi*	ab € 19,90 /Monat*
aonFestnetz	€ 0,00
aonInternet - bis zu 8 Mbit/s	€ 0,00
Option GigaSpeed 16 - bis zu 16 Mbit/s**	€ 4,90
Option GigaSpeed 30 - bis zu 30 Mbit/s**	€ 14,90
Option aonMobil	€ 0,00
Einmalige Entgelte für Herstellung und Aktivierung	
Herstellungsentgelte	€ 0,00
für Telekom Austria Neukunden durch den technischen Kundendienst*	€ 131,00
für Breitband-Neukunden durch den technischen Kundendienst	€ 29,90
für Breitband-Neukunden bei Selbstinstallation (Aktivierungsentgelt; bestehender Telefonanschluss von Telekom Austria vorausgesetzt)	€ 140,64
Umstellungsentgelt von ISDN-Basisanschluss	€ 79,00
Produktwechselentgelt für bestehende Telekom Austria Breitband-Kunden	
Aktivierungsentgelte	€ 49,90
für die Option aonMobil pro SIM-Karte (bis max. 4 Stk.)	€ 10,00
SIM-Karten-Aktivierung - Pauschale	€ 0,00
für die Option GigaSpeed 16 für bis zu 16 Mbit/s**	€ 0,00
für die Option GigaSpeed 30 für bis zu 30 Mbit/s**	
Jährliche Entgelte	
Internet Service Pauschale	€ 15,00

Shareable Product Info

Kundencenter

- Meine Angebote
- Online-Rechnung
- Online-Statistik
- jetzt einsteigen

Warenkorb

Bestellbedingungen

Webmail

Online-Festplatte

Produktberater

Sie haben Fragen?

Weitere Seiten

- A1 Telekom Austria
- Telekom Austria Group
- Telekom Austria Wholesale
- A1.net

Configurable areas

Our Solution

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

Our Solution

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New

Please select the new resource type

- | I | Name |
|----------------------------------|-----------------------|
| <input checked="" type="radio"/> | TA Structured Content |
| <input type="radio"/> | Folder |
| <input type="radio"/> | Extended folder |
| <input type="radio"/> | Structured content |
| <input type="radio"/> | Pattern page |
| <input type="radio"/> | Page with free text |
| <input type="radio"/> | Text file |
| <input type="radio"/> | JSP |
| <input type="radio"/> | External Link |
| <input type="radio"/> | Sibling |
| <input type="radio"/> | Extended HTML-Import |
| <input type="radio"/> | Upload new file |

Show description

Please select the new resource type

- | I | Name |
|-----------------------|------------------------|
| <input type="radio"/> | Article |
| <input type="radio"/> | Channel |
| <input type="radio"/> | Display Product Info |
| <input type="radio"/> | Form |
| <input type="radio"/> | Free Teaser |
| <input type="radio"/> | Home |
| <input type="radio"/> | HTML Code Piece |
| <input type="radio"/> | Iframe |
| <input type="radio"/> | Light Box |
| <input type="radio"/> | Link List |
| <input type="radio"/> | Page Config |
| <input type="radio"/> | Product Info |
| <input type="radio"/> | Page Navigation Config |
| <input type="radio"/> | Product Info Shop |
| <input type="radio"/> | Product Tab |
| <input type="radio"/> | Rotating Teaser |
| <input type="radio"/> | Shared Product Info |
| <input type="radio"/> | Site Map |
| <input type="radio"/> | Slide Show |
| <input type="radio"/> | Sujet List |
| <input type="radio"/> | Table |
| <input type="radio"/> | TA Ext Teaser |
| <input type="radio"/> | Link Node |
| <input type="radio"/> | Base Template |
| <input type="radio"/> | XML Template |
| <input type="radio"/> | CSS Template |
| <input type="radio"/> | Wholesale Template |
| <input type="radio"/> | Form Template |
| <input type="radio"/> | TA Ext Teaser Template |

Show description

Around 30 resource types

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

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Begriff eingeben **SUCHEN**

Privatkunden Businesskunden

Produkte Kundencenter Service & Hilfe

TELE KOM AUS TRIA

01 02 03 04 05 06

aonTV mit LCD-Fernseher
Das ultimative Fernseherlebnis.

Nur noch 4 Tage!

Full-HD Top LCD von LG 32-Zoll (81 cm)

aonTV
jetzt auch mit LCD-Fernseher!

* LCD-Fernseher gilt bei: ab € 14,90 pro Monat zuzügl. TA-Anschluss ab mind. € 15,98 + € 1,90 je aonTV Mediabox pro Monat, Mindestvertragsdauer 18 Monate, bei Kündigung vor 36 Monaten fällt eine Zahlung (max. € 180,-) an. aonTV ohne TV-Gerät ab € 4,90 monatlich.

Details Bestellen

Kundencenter

- Online-Rechnung
- Online-Statistik
- jetzt einsteigen

Warenkorb

Webmail

Online-Festplatte

Sie haben Fragen?

Shop Standorte

Wechseln Sie zu Telekom Austria

Quicklinks

- Webmail
- Online-Rechnung
- Online-Statistik
- Telefon Einstellungen
- E-Mail Einstellungen
- aonMobil Entgeltübersicht

Die aonKombi
Alles aus einer Hand.
Highspeed-Internet, Mobiltelefonie und Festnetz

19,90*

Details Bestellen

Die aonSuperKombi.
Eine Marke, eine Rechnung
aonTV + unlimitiertes Highspeed-Internet + Mobil + Festnetz

24,90 EUR / Monat

Details Bestellen

aonTV
Mehr als Fernsehen!
Mit LCD-Fernseher, über 90 TV-Sender, Videothek...

Aktion

Mit LCD-Fernseher, über 90 TV-Sender, Videothek...

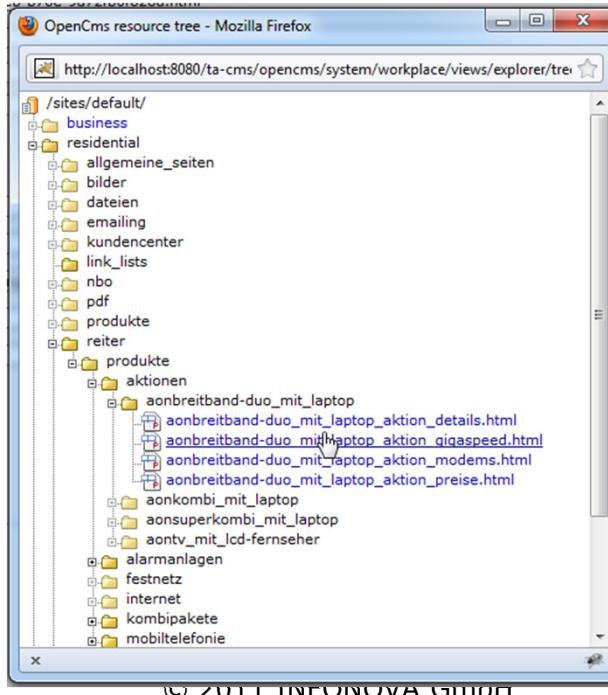
Details Bestellen

File (Filter)

■ Extension of File Selector Widget

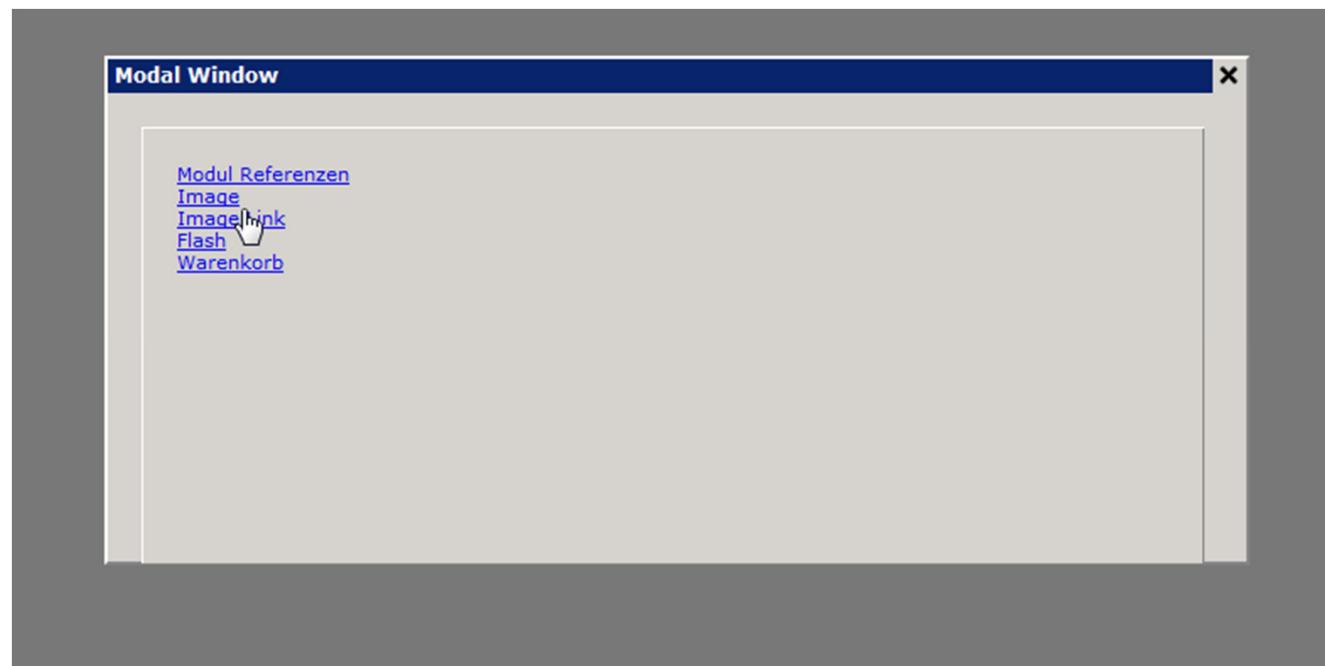
```
<xsd:element name="ProdTabs" type="OpenCmsVarLink" minOccurs="1" maxOccurs="1" />
```

```
<layout element="ProdTabs" widget="VfsFileWidget"  
configuration="hidesiteselector|includefiles|projectaware|resourcetypeNames=TAProductTab" />
```



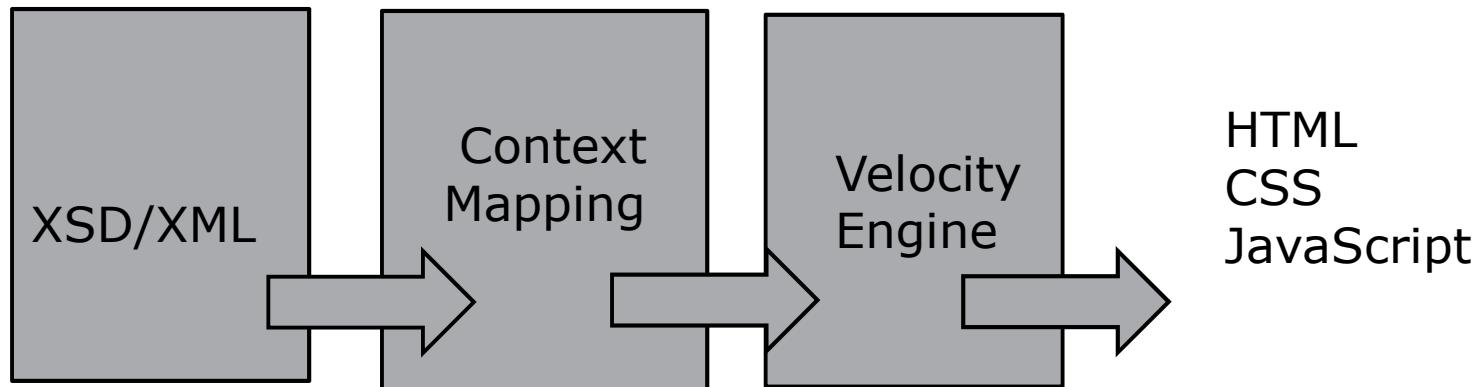
<xsd:choice> as extension for restrictive selection

```
<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>
```



- Based on Java Velocity
- Modules:
 - [at.infonova.opencms.modules.commons](#)
 - [at.infonova.opencms.modules.templatehelper](#)
 - [at.infonova.opencms.modules.velocity](#)

Rendering Pipeline



<http://sourceforge.net/projects/bp-cms-commons/>

OCD.xsd

provides

<OCD>

 <Visitor>

 <Name> Selver Softic</Name>

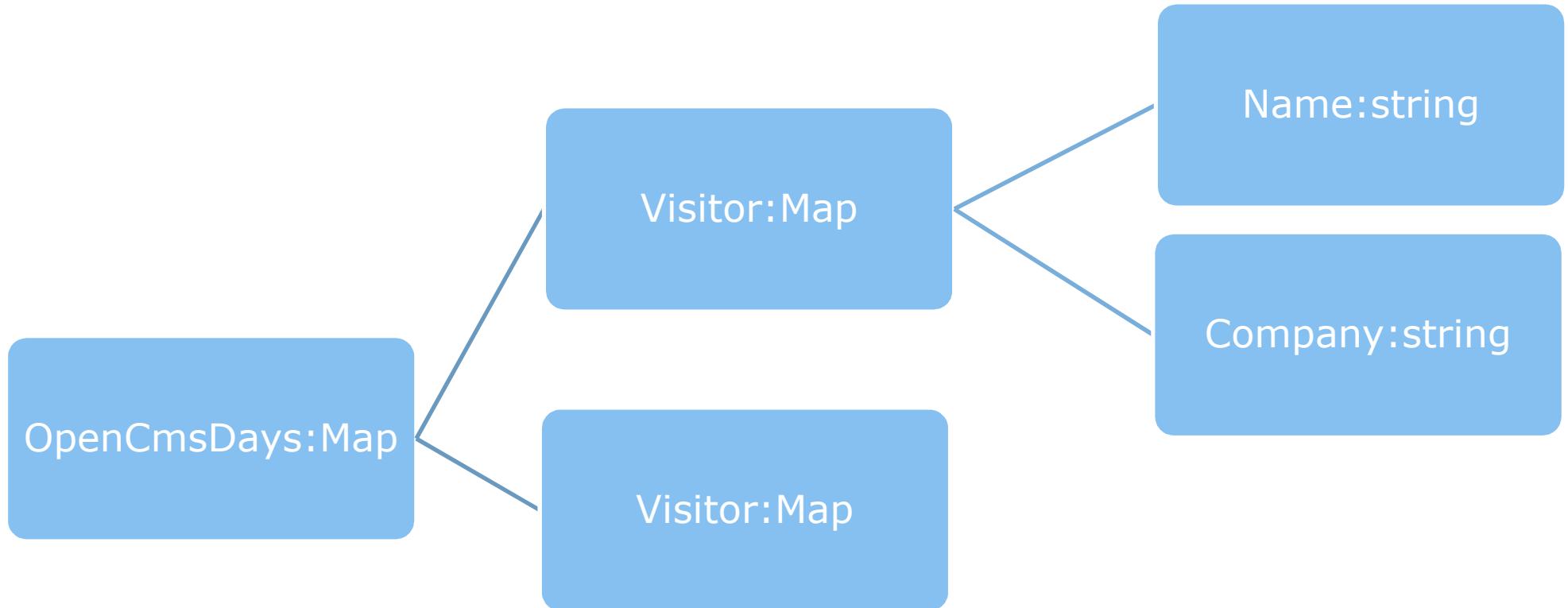
 <Company>Infonova GmbH</Company>

 </Visitor>

....

 <Visitor/>

</OCD>



Additionally Supported types: bool, date

Currently out the box:

- cms
- servlet
- functions
- velocity

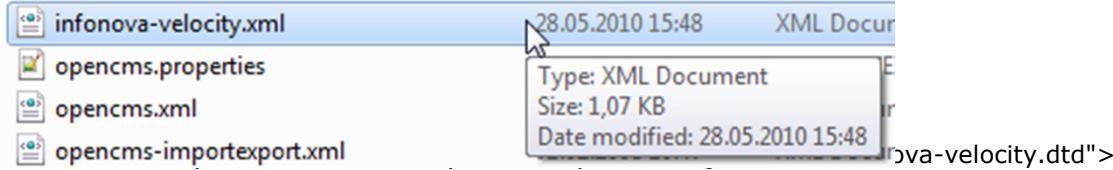
Additionaly implemented for telco solution:

- ta

Velocity in OpenCms 101

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```
<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/>

at.infonova.opencms.modules.common	INFONOVA Commons-Help-Classes	INFONOVA Module	1.0
at.infonova.opencms.modules.demo.content	INFONOVA Demo Content-Module	INFONOVA Module	1.0
at.infonova.opencms.modules.demo.template	INFONOVA Demo Template-Module	INFONOVA Module	1.0
at.infonova.opencms.modules.formgenerator	INFONOVA PPP – FormGenerator	INFONOVA Module	1.0
at.infonova.opencms.modules.springmanager	INFONOVA Commons-SpringManager-Module	INFONOVA Module	1.0
at.infonova.opencms.modules.templatehelper	INFONOVA TemplateHelper-Module	INFONOVA Module	1.1
at.infonova.opencms.modules.velocity	INFONOVA Velocity-Module	INFONOVA Module	1.0.2

Conclusion

Project finished before deadline

Happy editors ☺

Fully integrated solution into technical structure

Licence costs reduced

On time delivery of requirements

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Thank You!

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