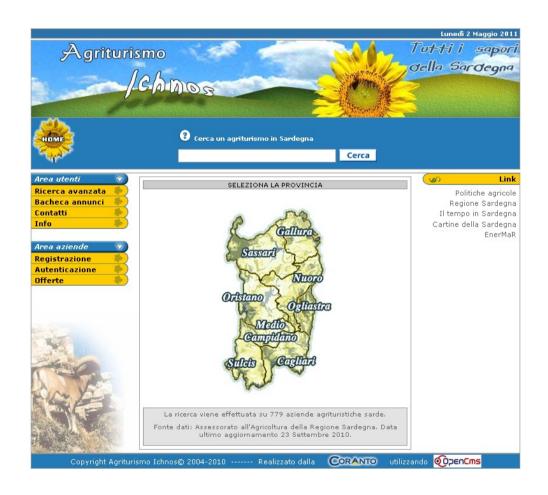


Managing data for holiday farms in Sardinia with OpenCms

Antonio Cordeddu



Agriturismolchnos – Home Page





Agriturismolchnos – what is

The project has been thought out, developed and managed by my company, Coranto Informatica.

The web site Agriturismolchnos (www.agriturismoichnos.com), is used for the collection of data related to the 800 or so holiday farms of Sardinia (Italy).

Upon registration the client can enter and modify data pertaining to their business.



Agriturismolchnos – a brief history

2004 - The project starts

2005 - The website is on-line

2007 – It was imported to OpenCms

2010 – We decided to upgrade the website



Agriturismolchnos – upgrade

Objectives:

- Complete integration on OpenCms
- Use of features of OpenCms
- Use of OAMP Modules



Agriturismolchnos – upgrade

Features:

- Use of Lucene search engine
- Multilingual format
- Use of Alkacon OAMP Webform
- Use of Alkacon OAMP Webuser registration



Agriturismolchnos – upgrade

We need to import the external relational database MySQL to OpenCms's Content Type Custom



Data import to OpenCms

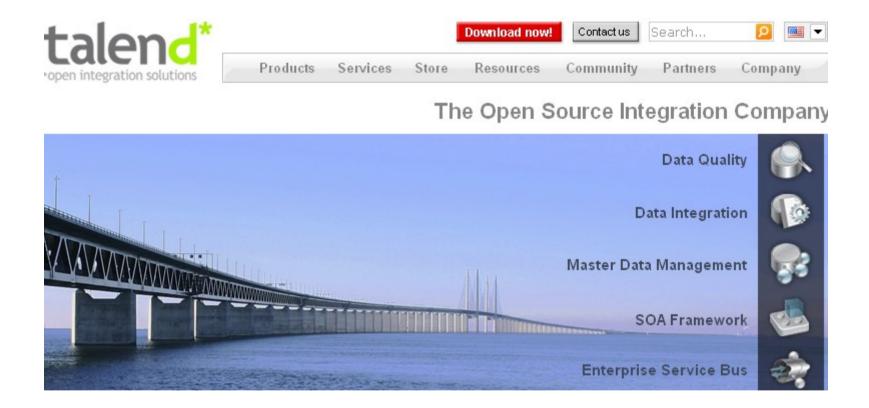
The process of data import between different systems is of the utmost importance in the IT field.

We were looking for a way of doing this without having to write any lines of code.

How is this done?



Talend Open Studio



www.talend.com



Talend Open Studio – what is

- •It's an open source solution for data integration.
- It improves the efficiency of data integration and job design through a graphical development environment.
- •It enables deployment with prebuilt connectors to all source and target systems.
- It supports all types of data integration, data migration and data synchronization operations.

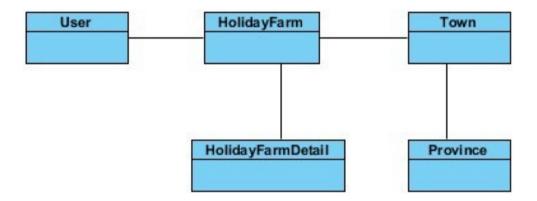


Data import to OpenCms

- 1) Creation of xsd content definition in OpenCms;
- 2) Creation of the job on Talend Open Studio;
- Configuration of the scheme in Talend Open Studio;
- Data export from the source through Talend Open Studio;
- 5) Data import to OpenCms.



Database model





First step - Content definition xsd

```
<!--
    XSD file for the FarmHoliday content type
<!-- 1. Root Element -->
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qua"</pre>
        <xsd:include schemaLocation="opencms://opencms-xmlcontent.xsd"/>
        <xsd:element name="FarmHolidays" type="OpenCmsFarmHolidays"/>
        <xsd:complexType name="OpenCmsFarmHolidays">
                 <xsd:sequence>
                         <xsd:element name="FarmHoliday" type="OpenCmsFarmHoliday</pre>
                 </xsd:sequence>
        </xsd:complexType>
        <xsd:complexType name="OpenCmsFarmHoliday">
                 <xsd:sequence>
                         <xsd:element name="Name" type="OpenCmsString" minOccurs=</pre>
                         <xsd:element name="ManagerName" type="OpenCmsString" mir</pre>
                         <xsd:element name="Town" type="OpenCmsString" minOccurs=</pre>
                         <xsd:element name="Province" type="OpenCmsString" minOcc</pre>
```



First step- Content definition xsd Registering the Content Type

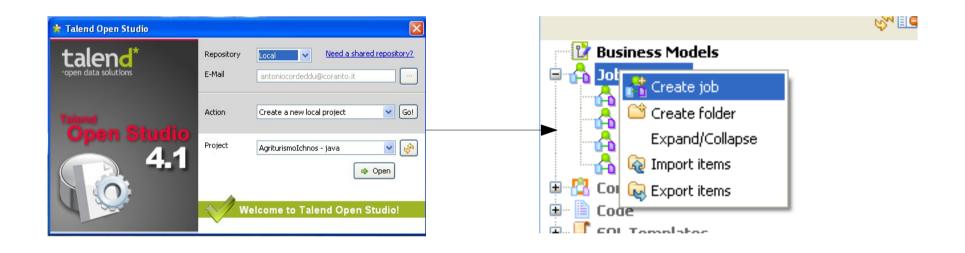
```
<resourcetypes>
     <type class="org.opencms.file.types.CmsResourceTypexmlContent" name="province" id="3001">
            <mapping suffix=".pro"/>
        </mappings>
        <param name="schema">/system/modules/com.agriturismoichnos/schemas/province.xsd</param>
    <tvpe class="org.opencms.file.types.CmsResourceTypexmlContent" name="townlist" id="3002">
        <mappings>
            <mapping suffix=".list"/>
        </mappings>
        <param name="schema">/system/modules/com.agriturismoichnos/schemas/townlist.xsd</param>
    <tvpe class="org.opencms.file.types.CmsResourceTypexmlContent" name="farmholiday" id="3003">
        <mappings>
            <mapping suffix=".holidav"/>
        <param name="schema">/system/modules/com.agriturismoichnos/schemas/farm_holiday.xsd</param>
    </type>
</resourcetypes>
    <explorertypes>
    <explorertype name="province" key="fileicon.province" icon="xmlcontent.qif" reference="xmlconter
        <newresource uri="newresource_xmlcontent.jsp?newresourcetype=province" order="301" autosetna</p>
            <accessentry principal="ROLE.WORKPLACE_USER" permissions="+r+v+w+c"/>
        </accesscontrol>
    </explorertype>
    <explorertype name="townlist" key="fileicon.townlist" icon="xmlcontent.gif" reference="xmlconter
        <newresource uri="newresource_xmlcontent.jsp?newresourcetype=townlist" order="302" autosetna</pre>
            <accessentry principal="ROLE.WORKPLACE_USER" permissions="+r+v+w+c"/>
        </accesscontrol>
    </explorertype>
    explorertype name="farmholiday" key="fileicon.farmholiday" icon="xmlcontent.gif" reference="xm"
        <newresource uri="newresource_xmlcontent.jsp?newresourcetype=farmholiday" order="303" autos</pre>
            <accessentry principal="ROLE.WORKPLACE_USER" permissions="+r+v+w+c"/>
        </accesscontrol>
   </explorertype>
```



First step- Content definition xsd Registering the Content Type

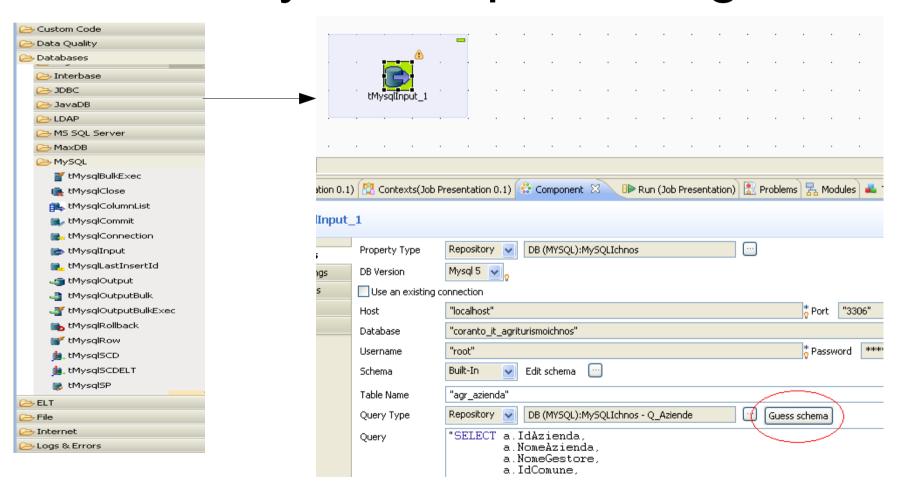


Second step - creation of the job on TOS



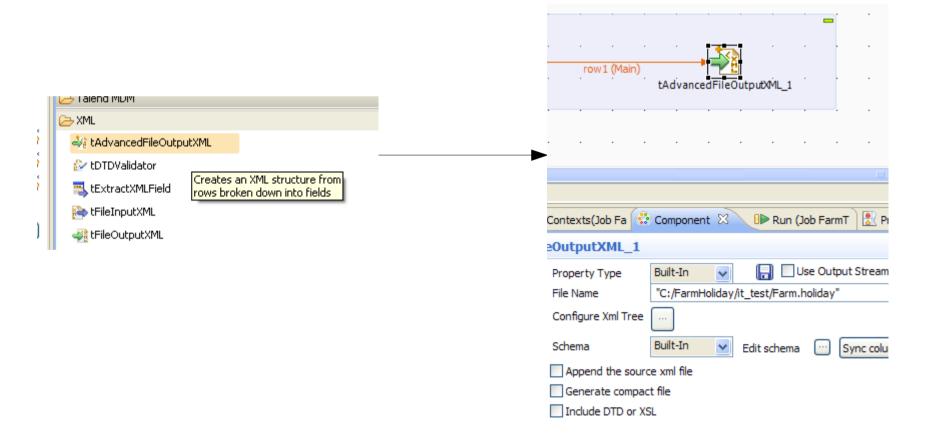


Second step - creation of the job on TOS – MySLQ input configuration

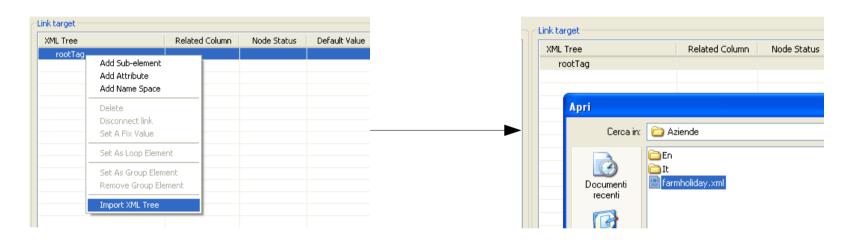




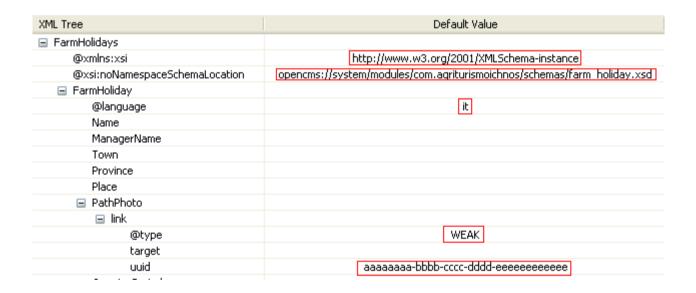
Second step - creation of the job on TOS – XML output



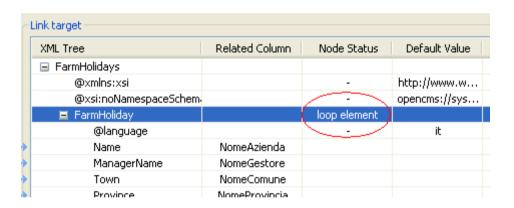




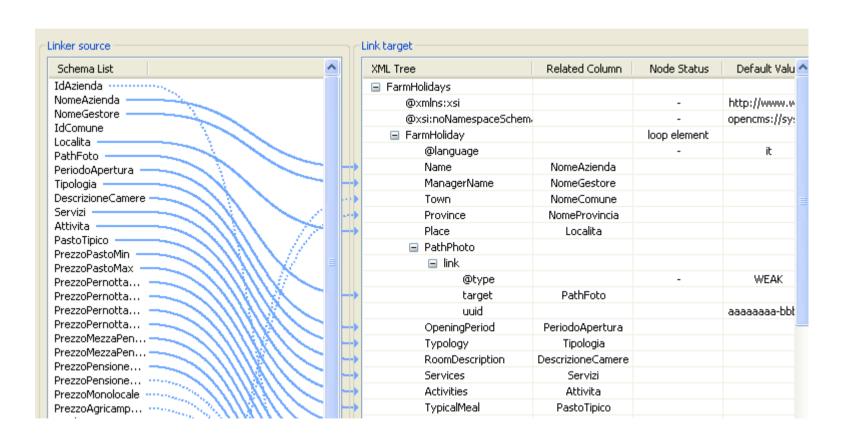




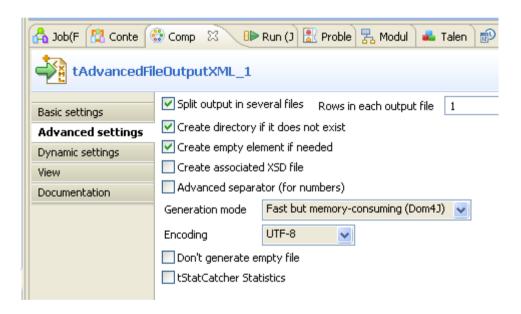






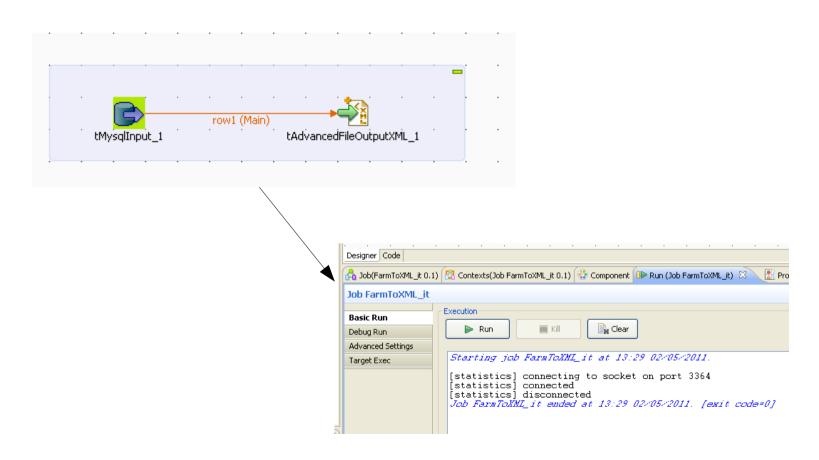








Fourth step - data export from the source through TOS



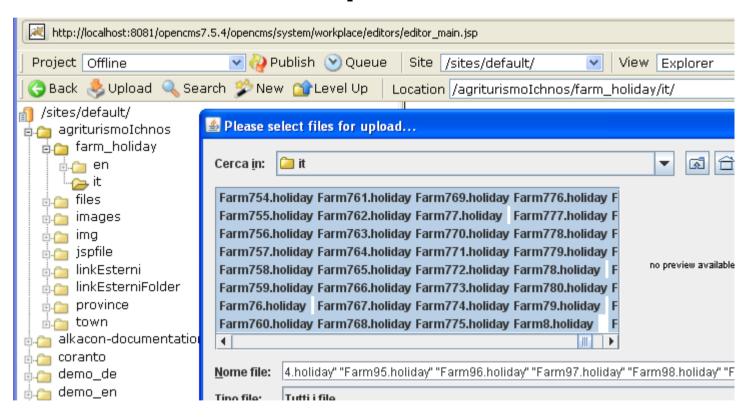


Fourth step - data export from the source through TOS

```
<?xml version="1.0" encoding="UTF-8"?>
<FarmHolidays xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xsi:noNamespaceSchemaLocation="opencms://system/modules/com.agriturismoichnos,
  <FarmHolidav language="en">
    <Name>Su Zinnibiri</Name>
    <ManagerName>CONCAS Anna</ManagerName>
    <Town>Arbus</Town>
    <Province>Medio Campidano</province>
    <Place>Loc. Campu Prama</Place>
    <PathPhoto>
      tvpe="WEAK">
        <target>/sites/default/agriturismoIchnos/img/default.jpg</target>
        <uuid>aaaaaaa-bbbb-cccc-dddd-eeeeeeeeee</uuid>
      </link>
    </PathPhoto>
    <OpeningPeriod>Annuale</OpeningPeriod>
```



Fifth step - data import to OpenCms



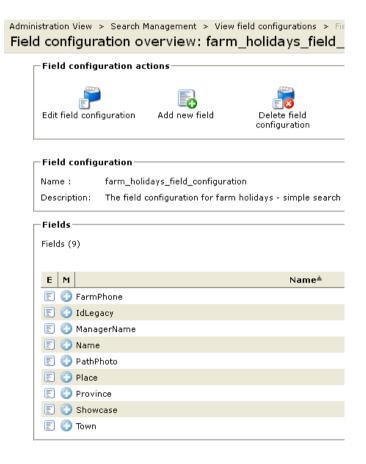


Fifth step - data import to OpenCms





Final remarks – Search Lucene



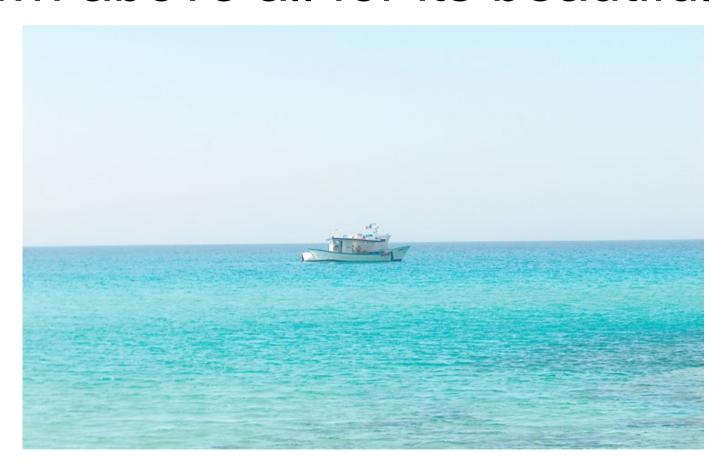


Final remarks - Search Lucene



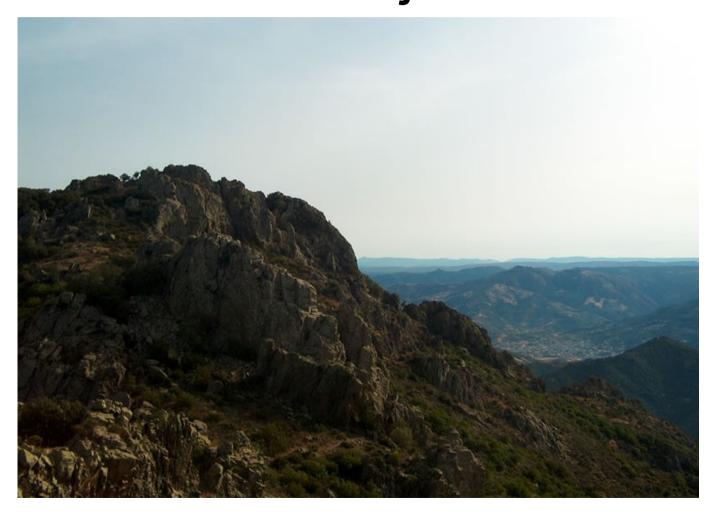


We hope to see you in Sardinia, known above all for its beautiful sea





... but there's much more to Sardinia than just sea ...





Thank you