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Alfresco Certified Gold SI Integrator

Alfresco Iberia Roadshow
Badajoz, 9 Octubre 2008

Let's get REST with  Alfresco !

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Let's get REST with Alfresco = Vamos a tener descanso con Alfresco (Traductor de Google)

Let's get REST with Alfresco = Vamos a tener Transferencia de Estado Representacional* con Alfresco (*lo que yo **también** quería decir*)

* Representational State Transfer (REST)



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REST

REST Webservices

- todo es un recurso (información y funcionalidad) accesible por una URL
- sin estados de sesión
- sólo tenemos que conocer un poco del formato de la respuesta
- desacoplamiento máximo
- portabilidad
- fácilmente cacheable
- framework SOA más escalable que hay (Internet)



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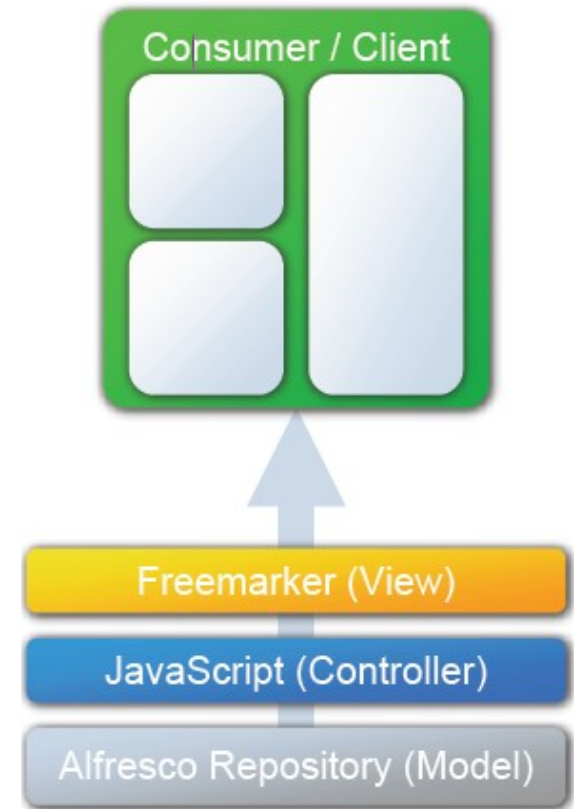


- interfaz jsf
 - webdav, ftp, cifs
 - web services
 - php client
 - **rest** web scripts
-
- alfresco share (es **rest** también)
 - alfresco surf (es **rest** también)
 - sharepoint protocol
 - cmis first draft protocol (incluye: webservices api, cmis query language, **rest** api)



- no hay necesidad de programación compleja
- freemarker, javascript api
- podemos retornar el contenido que queremos: XML, HTML, CSV, etc. (URL para contenido binario en el repositorio)
- soporta transacciones, seguridad

Alfresco REST Webscripts



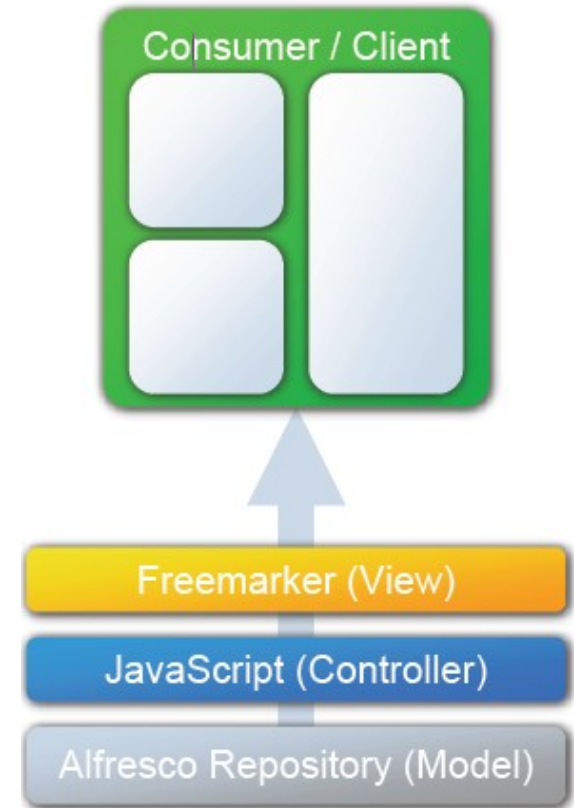
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Alfresco REST Webscripts

- se almacenan en “Data Dictionary”
- necesitamos apenas de un descriptor (XML), javascript y plantilla freemarker
- se pueden desarrollar directamente en Alfresco y están inmediatamente disponibles (no hay necesidad de reiniciar, etc.)



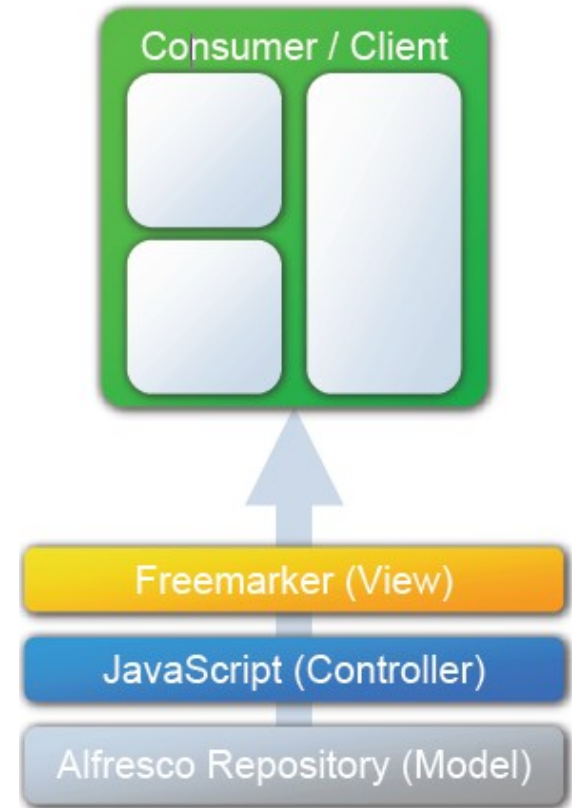
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- Space Browsing
- Search
- Checkin/out
- Create New
- Version History
- Properties
- Workflow Tasks
- Compare
- Transform PDF
- Email out URL

Alfresco Javascript API



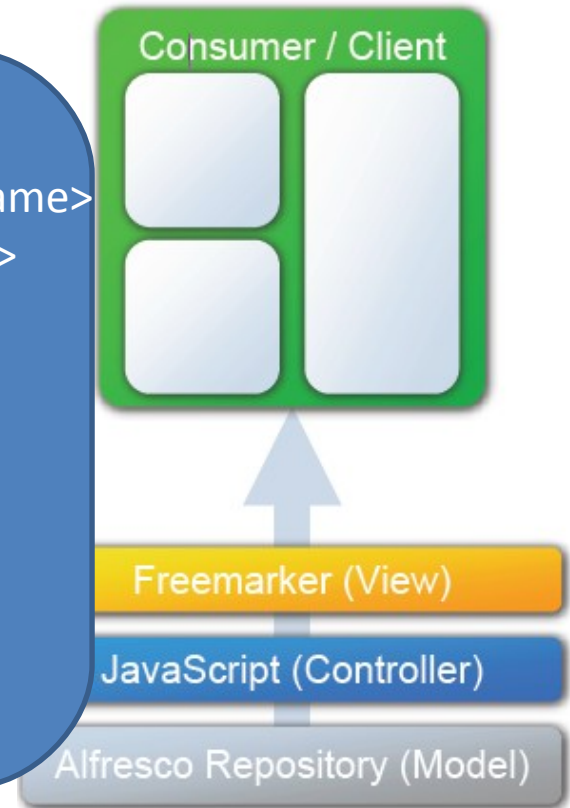
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Webscript XML Descriptor

```
<webscript>
<shortname>Sample Alfresco Repository Services</shortname>
<description>Repository services and utilities</description>
<url>/repo/</url>
<url>/repo/node/{nodeid}</url>
<url>/repo/node/path/{path}</url>
<format default="html"/>
<authentication>guest</authentication>
</webscript>
```



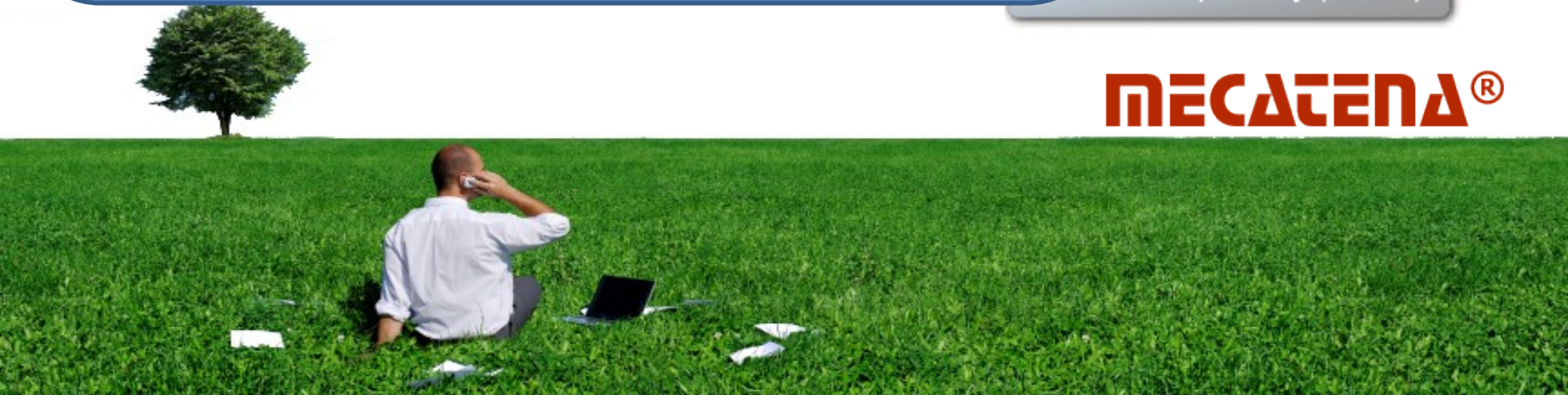
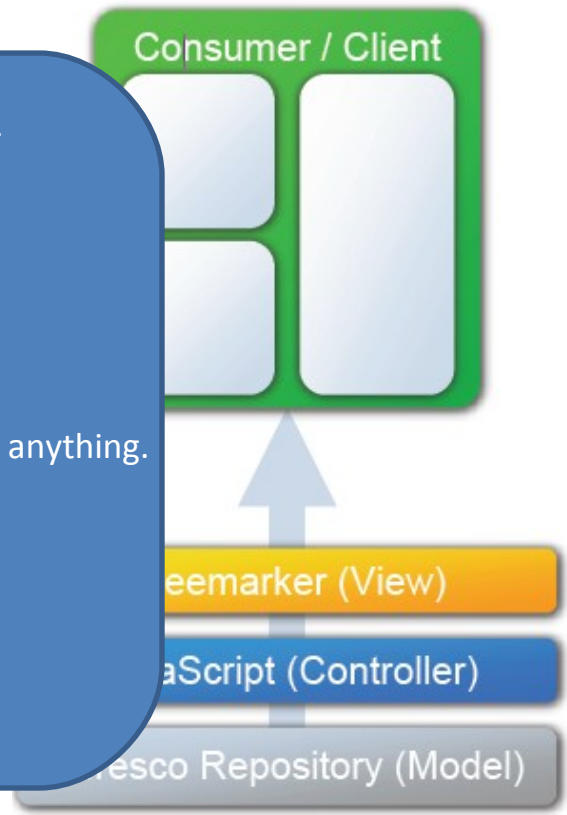
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Webscript Javascript

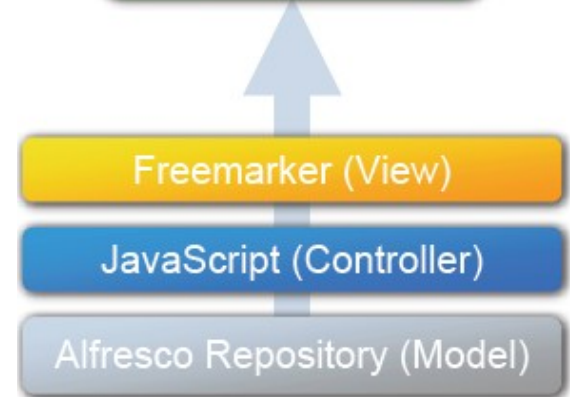
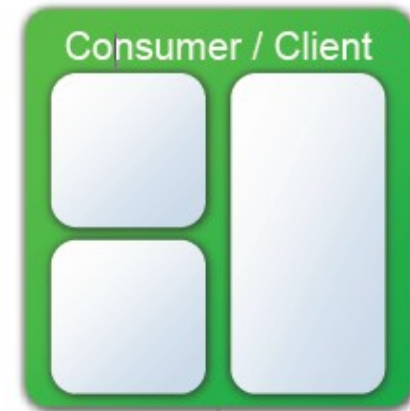
```
import resource=  
"classpath:alfresco/extension/templates/webscripts/org/alfresco/util/json.js">  
var curNode = companyhome;  
// Check for presence of arguments and locate the referenced node or path.  
if (url.extension != "") {  
  if (url.match == "/alfresco/service/repo/node/path/") {  
    var expr = "Company Home/";  
    var str = url.extension.replace(expr,"");  
    // If the path was just "Company Home/" then don't bother setting curNode to anything.  
    if (str != "") {  
      curNode = companyhome.childByNamePath(str);  
    }  
  } else if (url.match == "/alfresco/service/repo/node/") {  
    curNode = search.findNode("workspace://SpacesStore/" + url.extension);  
  }  
  // end if
```





```
// Initialize the variables and arrays
var children = curNode.children;
var results = {};
var numDocs = 0;
var numSpaces = 0;
results.node = curNode;
results.spaces = new Array();
results.documents = new Array();
// Iterate through children and populate return objects
for (var i=0; i < children.length; i++) {
  var index = 0;
  if (children[i].isContainer) {
    results.spaces[numSpaces] = children[i];
    index = numSpaces++;
  } else if (children[i].isDocument) {
    results.documents[numDocs] = children[i];
    index = numDocs++;
  } // end if
} // end for
model.results = results;
```

Webscript Javascript



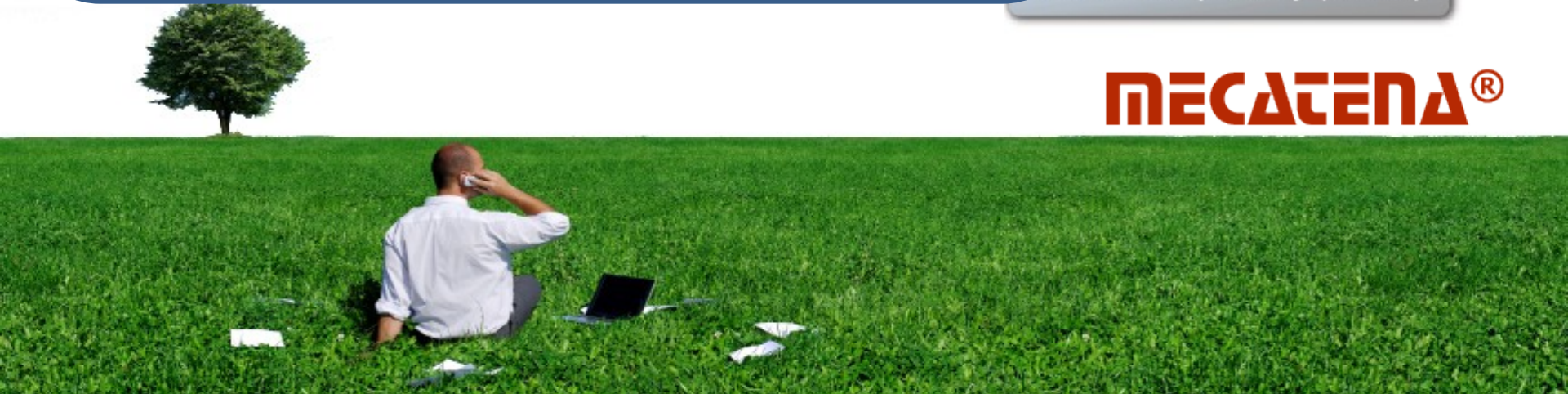
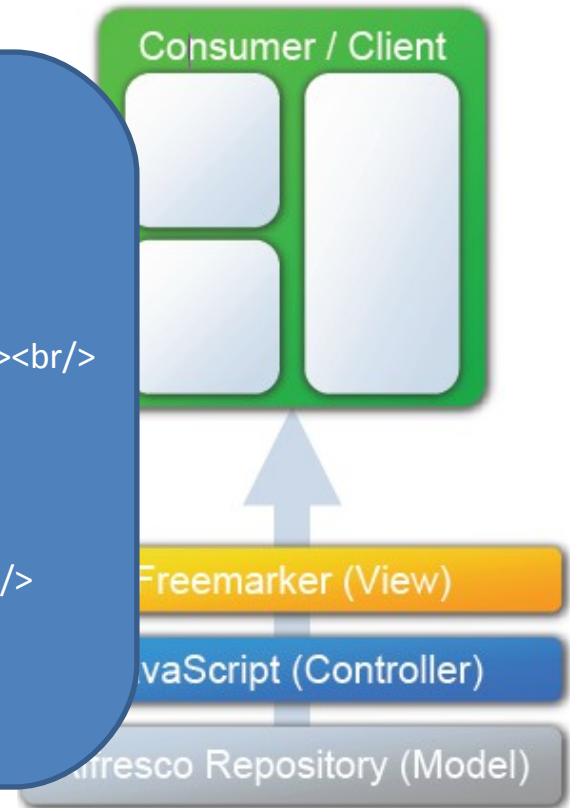
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Webscript Freemarker

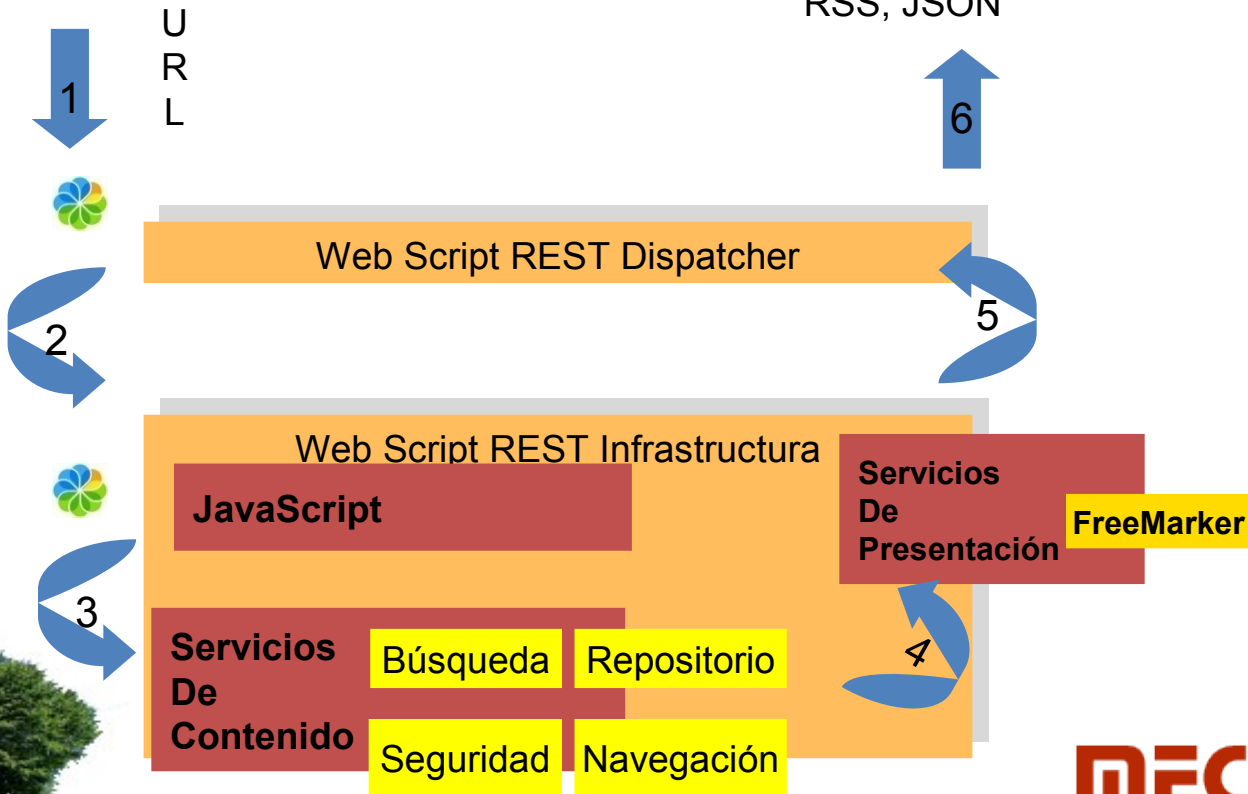
```
<#assign spaces = results.spaces>
<#assign docs = results.documents>
<html>
<body>
<b>Spaces:</b><br/>
<#list spaces as space>
<a href="{url.serviceContext}/repo/node/{space.id}">{space.name}</a><br/>
</#list>
<hr/>
<b>Documents:</b><br/>
<#list docs as doc>
<a href="{url.serviceContext}/repo/node/{doc.id}">{doc.name}</a><br/>
</#list>
<hr/>
</body>
</html>
```

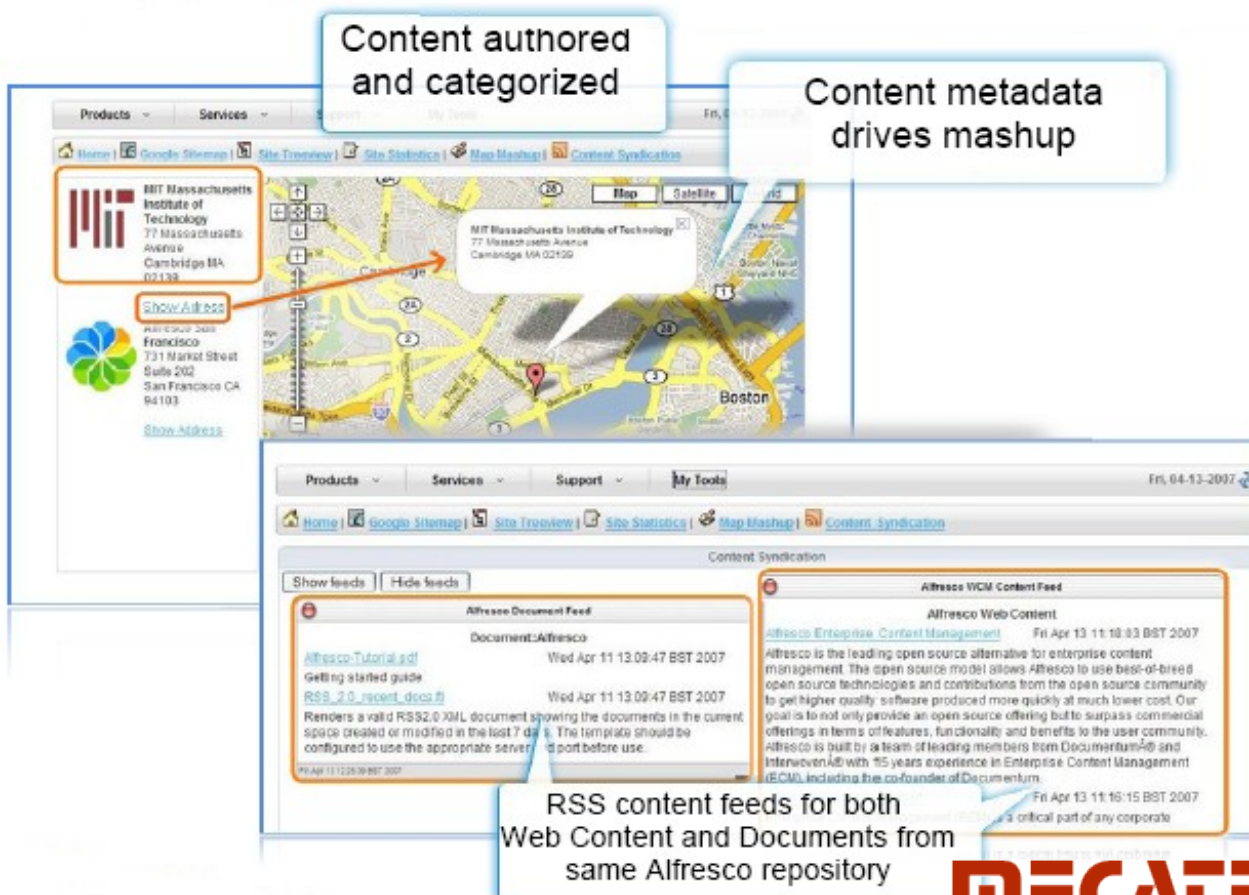




REST Web Scripts – REST WEB SERVICES - SOA

HTML, ATOM,
RSS, JSON





Content authored and categorized

Content metadata drives mashup

RSS content feeds for both Web Content and Documents from same Alfresco repository

The screenshot displays a web application interface with a navigation menu (Products, Services, Support, My Tools) and a date indicator (Fri, 04-13-2007). The main content area is divided into two sections. The top section, titled 'Map Mashup', features a Google Maps interface with a sidebar on the left listing addresses: 'MIT Massachusetts Institute of Technology' and 'Alfresco 200 Francisco'. A 'Show Address' button is highlighted with an orange box, and an arrow points from it to a map marker. The bottom section, titled 'Content Syndication', shows two RSS feeds: 'Alfresco Document Feed' and 'Alfresco Web Content'. The 'Alfresco Document Feed' shows a document titled 'Alfresco Tutorial.pdf' with a 'Getting started guide' and an 'RSS 2.0 recent docs #' link. The 'Alfresco Web Content' feed shows a post titled 'Alfresco Enterprise Content Management' with a date of 'Fri Apr 13 11:16:15 BST 2007' and a snippet of text: 'Alfresco is the leading open source alternative for enterprise content management. The open source model allows Alfresco to use best-of-breed open source technologies and contributions from the open source community to get higher quality software produced more quickly at much lower cost. Our goal is to not only provide an open source offering but to surpass commercial offerings in terms of features, functionality and benefits to the user community. Alfresco is built by a team of leading members from Documentum® and Interwoven® with 15 years experience in Enterprise Content Management (ECM), including the co-founder of Documentum.'

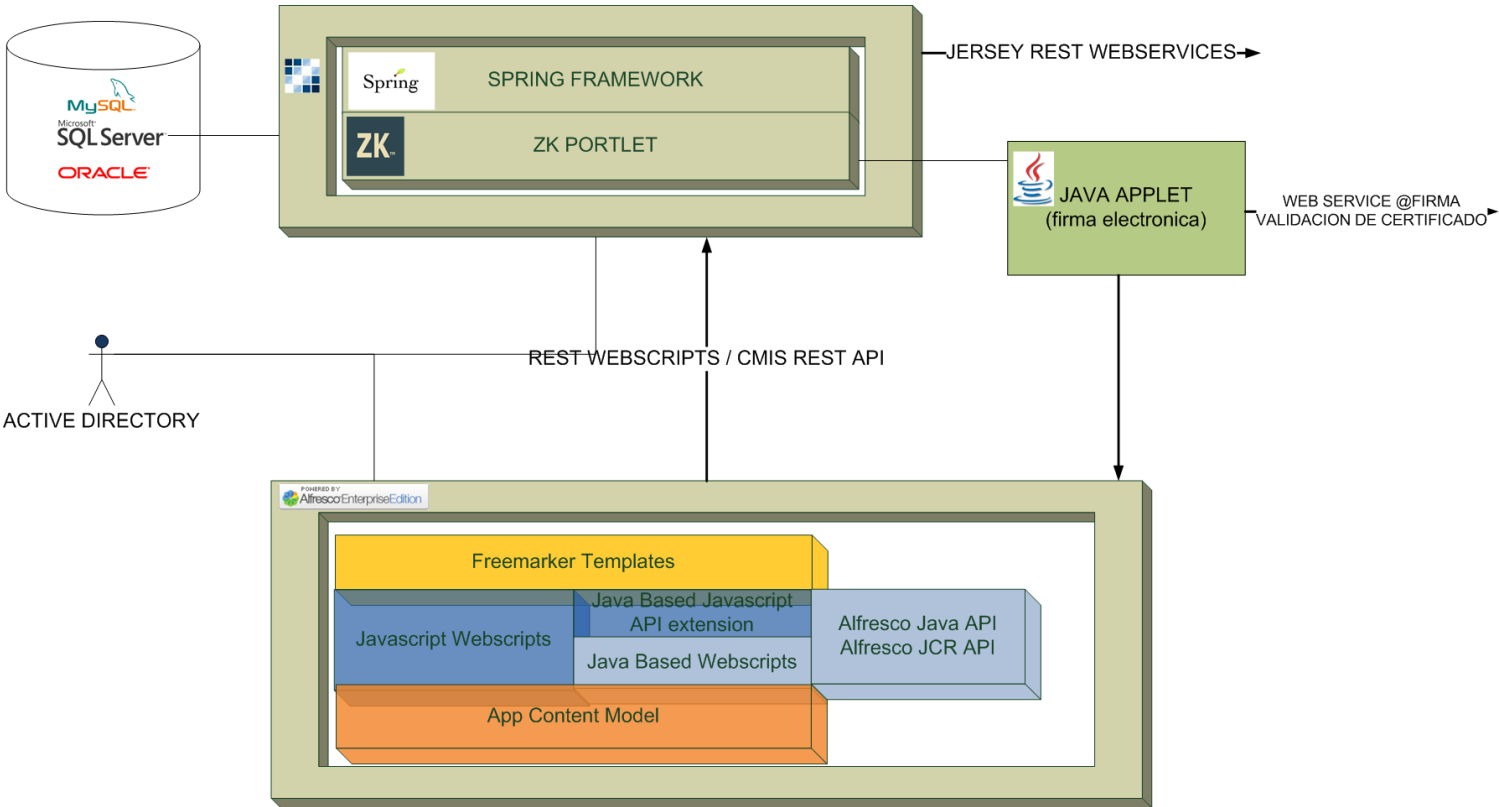




- Portlets pueden utilizar Webscripts como DATA API (XML, JSON, etc)
- Portlets pueden utilizar UI webscripts como widgets
- Portlets basados en webscripts ya disponibles en Alfresco (MyTasks, MyDocuments, MySpaces, MyWebForms)
- Podemos utilizar los webscripts desde cualquier aplicación (desktop, web, php, flash, jsp, liferay, etc)



Real World



Fin

MÁS INFORMACIÓN:

- http://wiki.alfresco.com/wiki/Web_Scripts
- http://wiki.alfresco.com/wiki/JavaScript_API
- http://wiki.alfresco.com/wiki/Template_Guide
- <http://community.alfresco.com>

Me he aprovechado de:

- An Introduction to Alfresco Web Scripts - Michael Farman (Alfresco)
- Alfresco Web Scripts - Luis Sala (Alfresco)

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