



drupalcamp
spain 2010



Integración de Drupal con Alfresco ECM a través de CMIS

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- **Antes:**

- Enterprise Security Architect en Thales
- Security Product Manager en Netfocus/Hewlett-Packard
- Security and QA Project Manager en IN2
- PKI Consultant en Safelayer

- 1. Situación actual:**
 1. UX, Web 2.0, Web RIA, Mobile, ...
 2. Hablemos claro: CMS, Portal, WCM, ECM, ...
 3. Productos: “La noche me confunde”
 4. Arquitectura
- 2. ¿Qué ofrece Drupal + Alfresco?**
- 3. ¿Cómo lo hago?**
- 4. ¿Y qué obtengo? ... de Drupal**
- 5. ¿Y qué obtengo? ... de Alfresco+Drupal**
- 6. CMIS**
- 7. Demo!!**
- 8. Conclusiones**

1. Situación actual

- **Flexibilidad**
 - Incorporar nuevas funcionalidades, ... Web 2.0
 - Cambiar el Look&Feel, ...
- **Escalabilidad**
 - Búsqueda de ficheros PDF, SWF, Doc, PPT, ...
 - Tengo muchos usuarios simultáneos, ..
- **Interoperabilidad**
 - Tengo MS Sharepoint, Documentum y tengo mis ficheros en el HD, ... y cómo los centralizo?
- **User Experience**
 - El usuario necesita productividad: Espacio colaborativo, gestión de conocimiento, repositorio documental corporativo, workflows/gestión de expedientes, ...

1.2. Hablemos claro: CMS, Portal , WCM, ECM,

▪ Un “Content Management System” (CMS) es una tecnología/producto/software usado para publicar y gestionar contenidos de un “site”.

▪ El contenido es publicado usando plantillas o “wizards”.

▪ El CMS consiste de 2 partes principales:

▪ “Content Production System” (CPS) y “Presentation Management System” (PMS)

▪ O “Content Management System” (CMS) y “Web Publishing Tool” (WPT)

▪ <http://blogs.alfresco.com/wp/pmonks> (Pete Monks)



Producción de contenido



Publicación

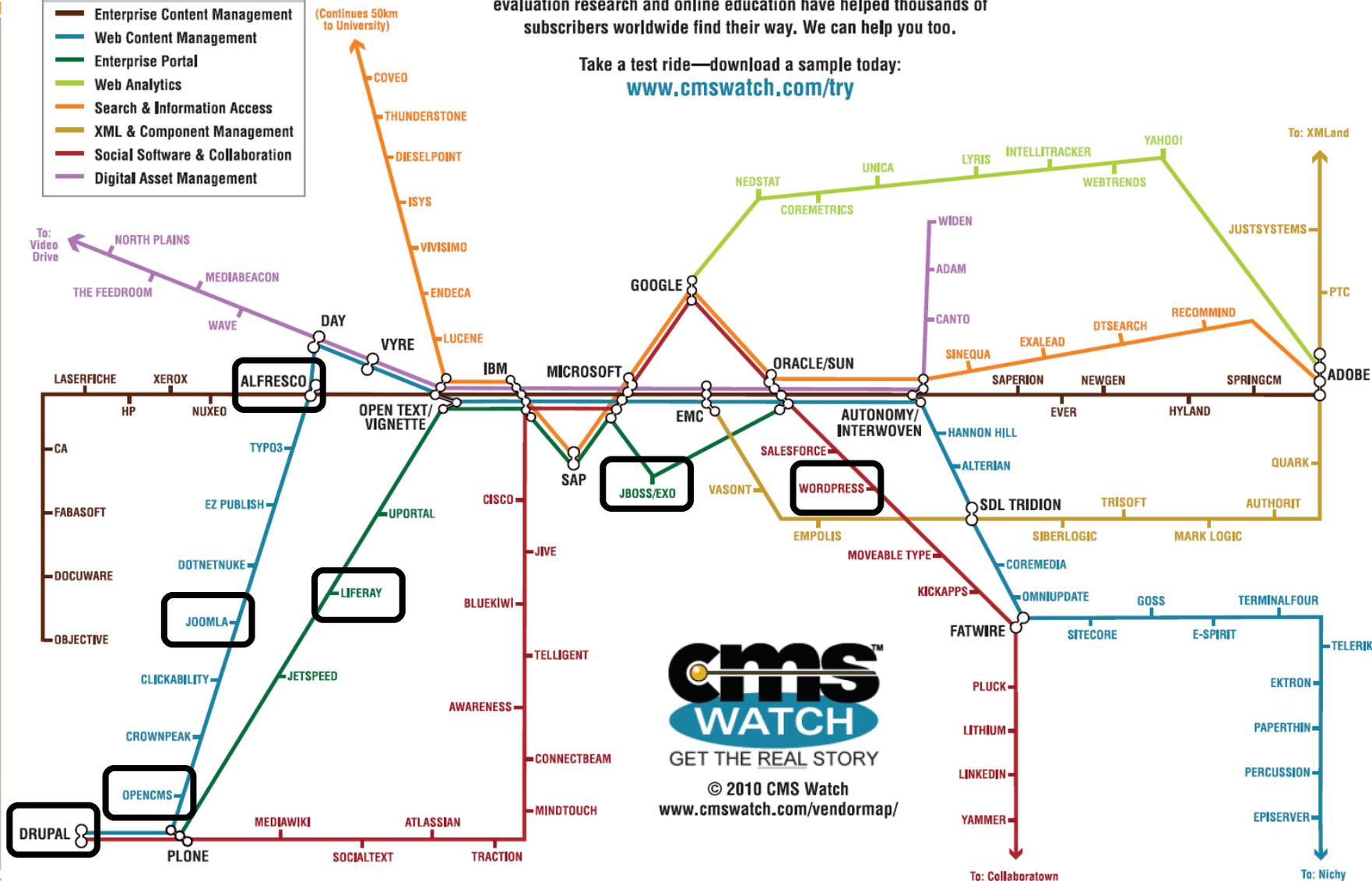
1.3. Productos: “La noche me confunde”

KEY

- Enterprise Content Management
- Web Content Management
- Enterprise Portal
- Web Analytics
- Search & Information Access
- XML & Component Management
- Social Software & Collaboration
- Digital Asset Management

CMS Watch simplifies the content technology space. Our product evaluation research and online education have helped thousands of subscribers worldwide find their way. We can help you too.

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1.4. Arquitectura

Capa de Presentación

1 •Será a través de la capa de presentación que accederemos a los servicios y aplicaciones de la Organización. Esto evita tener diferentes puntos de acceso y diferentes mecanismos de gestión de autorizaciones.

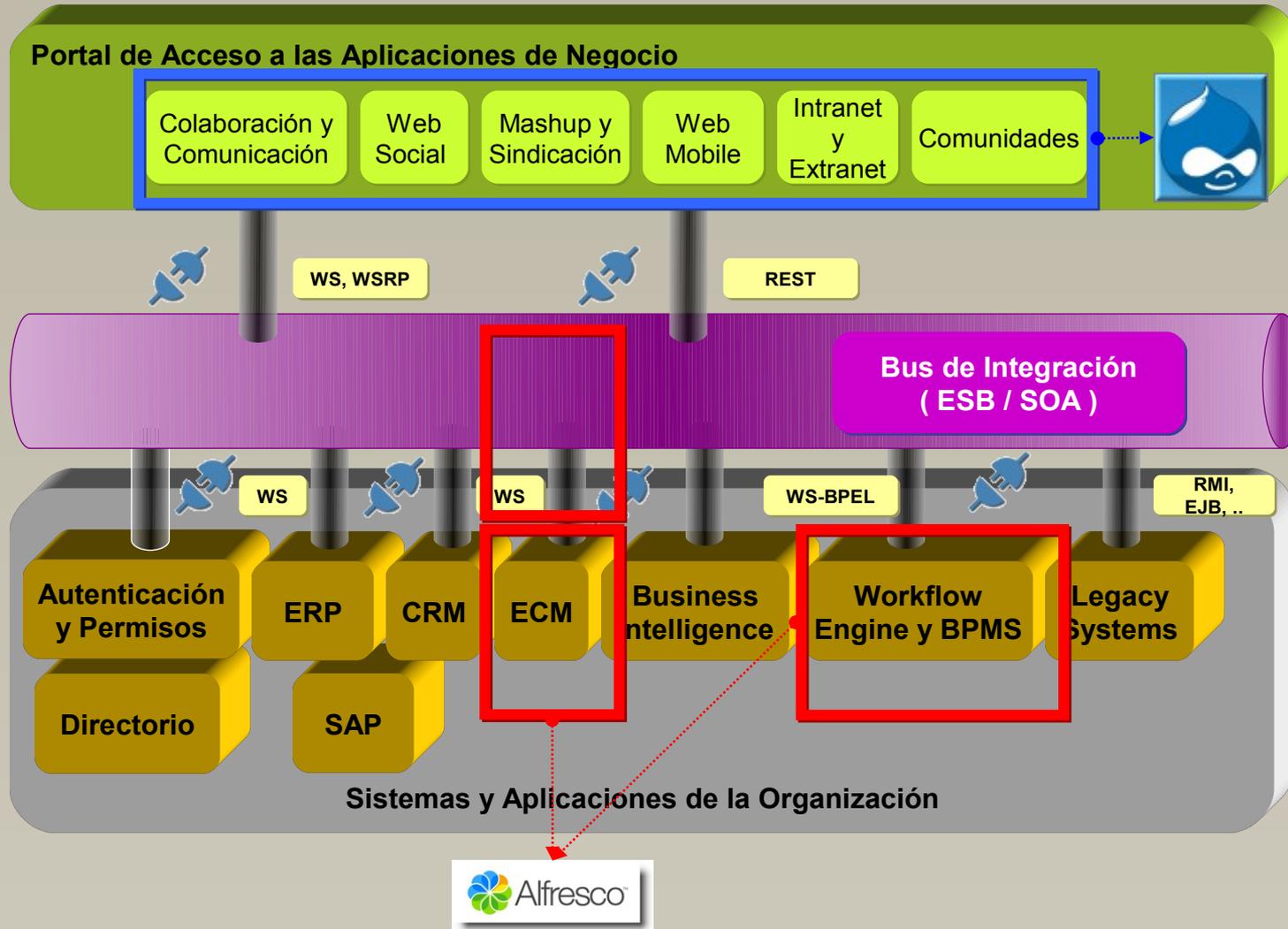
•Esto exige una integración del proceso de autenticación y así alcanzar el SSO en Apps.

Capa de Integración

2 •Nos permitirá integrarnos con aplicaciones ya existentes en la organización o externas, también nos permitirá reutilizar servicios web desde diferentes aplicaciones BPM/SOA desarrolladas.

Capa de Aplicaciones

3 •Son todas las aplicaciones existentes en la organización que son susceptibles de ser integrados usando diferentes adaptadores provistos por el ESB, de manera natural, la integración es a través de WS y dependiendo del tipo de ESB podemos tener adaptadores que implementan diferentes protocolos.



2. ¿Qué ofrece Drupal + Alfresco?

When you combine the strengths of Drupal...



Dries Buytaert, Drupal founder

- Hip, popular framework**
- Flexible presentation layer**
- Fast, clear development model**
- Strong community focus**

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...with the power of Alfresco...

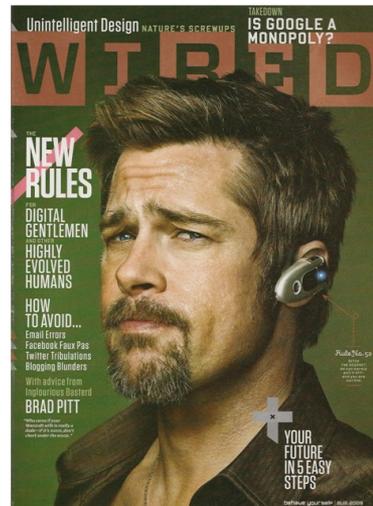


John Newton, Alfresco CTO

- Enterprise-class repository**
- Strong commercial ECM credibility/lineage**
- Best-in-class openness, programmability**

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...you get something better.



- Compelling presentation framework**
- Tons of community features that can be easily added and built upon**
- Hierarchical document storage**
- Enterprise-class workflow**
- Decoupling of the front-end from the back-end with an open standard in-between**



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3. ¿Cómo lo hago?

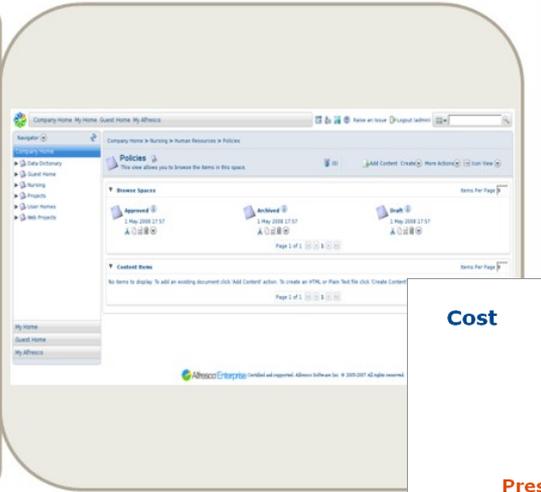
Flexibility

Powerful Presentation framework

Loosely Coupled



Enterprise Repository



- Thousands of modules to choose from
- Easy to theme
- Fast, efficient development model

- Multiple ways to update content
- Robust business process engine
- Extensible content model

Cost



| | Self support | Commercial support |
|--------------|--------------------|-------------------------|
| Presentation | Drupal | Acquia |
| Repository | Alfresco Community | Alfresco Enterprise |
| Cost | Free | Cheaper than SharePoint |

4. ¿Y qué obtengo? ... de Drupal

Drupal – Convenience and Impact



What Does Drupal Bring to the Table?

- Purpose-built community platform
- 4000+ open source modules for a wide range of features
- Huge developer community
- Infinitely customizable user interface
- Easy-to-use content management tools
- Integration with Enterprise systems
- Existing intranet distributions, such as Open Atrium
- Commercial Enterprise support from Acquia

Enterprise Integration

- Single-Sign-On
 - LDAP
 - Active Directory
 - NTLM
 - CAS
- Search
 - Lucene
 - Endeca
 - Google Search Appliance
 - Acquia Hosted Search
- ECM
 - Alfresco
 - Other CMIS providers

Drupal Features



Content Management

- Easy-to-use interface
- Powerful taxonomy
- Web Content Management workflow tools
- Robust content promotion tools
- Role-based content management

Community

- Comments
- Polls
- Forums
- Calendars and Events
- Wiki
- Microblogging
- Rich user profiles
- Social Graph



Drupal – Flexible Interface



5. ¿Y qué obtengo? ... de Alfresco+Drupal

Alfresco – Enterprise Content Services



Presentation Tier



Fast, flexible, modular user interface

Content Services Tier



Open, scalable repository, metadata, versioning, workflow

Core

Scripting language on the front-end and Java on the back-end is a proven pattern. Drupal provides the UI while Alfresco provides core content services.

Alfresco – Enterprise Content Services



Presentation Tier



Fast, flexible, modular user interface

Content Services Tier



Open, scalable repository, metadata, versioning, workflow

Multiple, disparate front-ends

Many organizations have multiple front-ends that need to get to the same enterprise content store.

Alfresco – Enterprise Content Services



Presentation Tier



Fast, flexible, modular user interface

Content Services Tier



Open, scalable repository, metadata, versioning, workflow

Multiple content repositories

Organizations may have multiple CMIS repositories, maybe from different vendors.

Alfresco – Enterprise Content Services



Presentation Tier



Fast, flexible, modular user interface

Content Services Tier



Open, scalable repository, metadata, versioning, workflow

Enterprise Apps Tier



- # Content Management Interoperability Services

http://en.wikipedia.org/wiki/Content_Management_Interoperability_Services

Content Management Interoperability Services (CMIS) ^[1] is a proposed standard for improving interoperability between [Enterprise Content Management](#) systems. It proposes a data model plus a set of generic services and several protocol bindings for these services, including: [SOAP](#) and [Representational State Transfer \(REST\)](#)/[Atom](#).



CMIS Benefits

[\[edit\]](#)

CMIS specification provides a Web services interface that:

- Is designed to work over existing repositories enabling customers to build and leverage applications against multiple repositories -- unlocking content they already have
- Decouples Web services and content from the content management repository, enabling customers to manage content independently
- Provides common Web services and Web 2.0 interfaces to dramatically simplify application development
- Is development platform and language agnostic
- Supports composite application development and mash-up by the business or IT analyst
- Grows the ISV and developer community

Developer Release

- Execute CMIS API calls against any CMIS-compliant repository
- Search a CMIS repository with CMIS Queries
- Browse a CMIS repository by navigating its hierarchy
- Synchronize nodes between the CMIS repository and Drupal
- Autocomplete when specifying folder paths
- Specify node options for nodes imported from the CMIS repository

Future Release

- Additional documentation and cleanup
- Content-type specific folder sync
- Pagination on search results
- Handle the synchronization race condition
- Views integration
- Handle file attachments (currently only plain text/html nodes are supported)
- Better error handling throughout

Credits

- Contributors
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CMIS SQL

<http://www.open-source-ecm.com/2009/08/cmisis-tutorial-cmisis-sql.html>

▼ Search the repository using CMIS SQL 1.0 queries.

Query:

Query results

▼ OpenSearch

Keyword:

Search the repository using opensearch support

| | | | |
|--|-------|-------------------|-------|
|  DrupalCamp2010Bcn.txt | admin | 2/27/2010 4:26 PM | 0,016 |
|--|-------|-------------------|-------|

first 1 last

```
SELECT * FROM FOLDER AS F
WHERE
IN_FOLDER(
'workspace://SpacesStore/b7008f8b-5352-4e9b-97e7-4374479ee984')
```

- **Requerimientos:**
 - Acquia Drupal (DAMP)
 - <http://acquia.com/downloads>
 - Alfresco (Workflow, Repositorio seguro)
 - <http://www.alfresco.com>
 - Drupal CMIS API module
 - <http://drupal.org/project/cmism>
 - Drupal CMIS Alfresco module
 - http://drupal.org/project/cmism_alfresco



- **100% FOSS**
 - http://www.drupal.org/project/cmism_alfresco (GPLv2)
- **No intrusivo**
 - No necesito instalar nada en el lado del Repositorio (Alfresco)
- **No hay migración**
 - El contenido se queda en el repositorio
- **Desde Drupal puedo continuar creando contenido**
 - CMIS Sync: Drupal <-> Alfresco

Acerca del presentador

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