



*Meetup!!!*

# Alfresco / Liferay Integration Roundtable Kickoff

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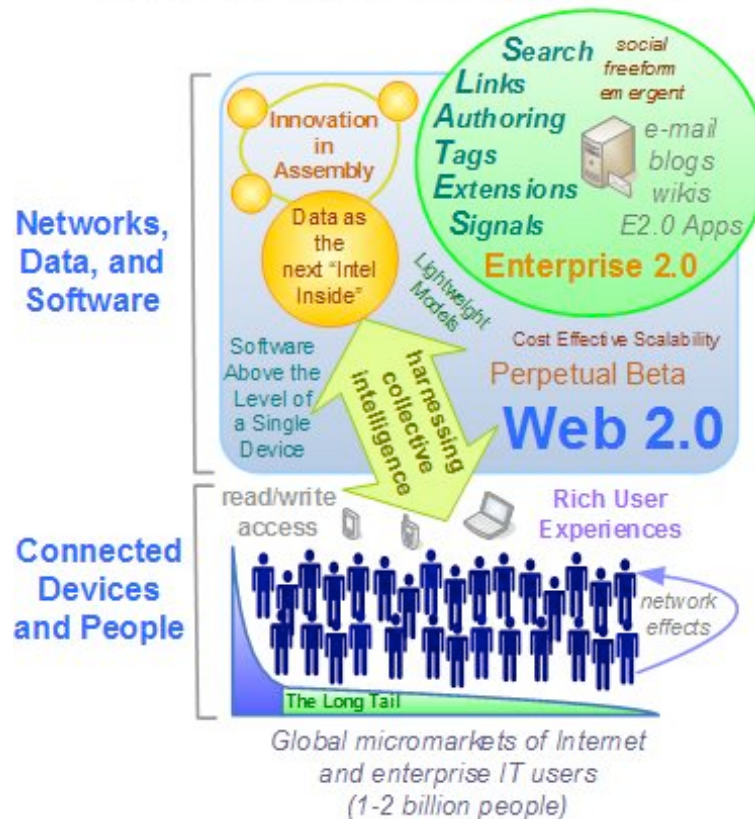
# Presentation Overview

- Why do we care? Where is the business value?
- Technology Overview
- What do we mean by Alfresco/Liferay integration?
- Case studies
  - Enterprise collaboration (Sharepoint alternative)
  - Content-rich application for an education community
  - A cross-enterprise ecosystem to capture a vertical market
- Issues and Q&A
- Roundtable Discussion

# Alfresco/Liferay Integration - Why?

- A platform for
  - Enterprise 2.0 applications<sup>1</sup>
  - Content-rich collaboration & communities

## An Anatomy of Emerging Networked Software Models at the Beginning of the 21<sup>st</sup> Century: Web 2.0 and Enterprise 2.0



1) Andrew McAfee, "Enterprise 2.0: The Dawn of Emergent Collaboration", MIT Sloan Management Review, Spring 2006

Source: <http://blogs.zdnet.com/Hinchcliffe/?p=71>

# Key Technology Capabilities

- **Alfresco**
  - Rich and extensible content modeling
    - ~ Metadata, associations, classification, tags
  - Full-text indexing and search/retrieval (incl. OpenSearch)
  - Workflow
  - APIs: Foundation Services, Web Services, REST
  - Other Interfaces: CIFS, WebDAV, FTP
- **Liferay**
  - Easy to use interface for web site administration, page layout, navigation, and user/group/organization configuration
  - Platform for aggregation, personalization, collaboration
  - Numerous out of the box portlets including
    - ~ Message boards & Instant messaging
    - ~ Wiki & Blogs
    - ~ Mail, Calendar & Directories

# Alfresco/Liferay Integration - What is it?

- Alfresco as a JSR-168 Portlet?
- Alfresco as a DMS for document-centric web applications?
- Alfresco as a CMS for all content in Liferay?
  - Documents, images, blogs, wikis, journal content, etc.
- Alfresco as a Web CMS for Liferay applications?
  - Manage content and web application components (portlets)
- Liferay portlets that expose targeted Alfresco functionality?
  - Alfresco Version 2.0 - Web Services API
  - Alfresco Version 2.1 - Webscripts
- What else?

# Alfresco/Liferay Integration - What is it?

- What comes out of the box?
  - Alfresco Content Portlet in Liferay
    - ~ Provides integration into Alfresco ECM, including:
      - Integrated Browsing and Publishing of HTML Content
      - Inline-Editing of Content (Requires SSO)
      - Images and Content Contained and Displayed within the Portal
      - Workflow and Preview of Unpublished Content
- Coming soon (Alfresco v2.1)
  - Webscript portlets
    - ~ Enable URL-addressable components that execute server-side Javascript actions and render the resulting data using Freemarker
    - ~ Will run in a JSR-168 container

# Case Study #1

- Use Case: Enterprise Collaboration Portal
  - An alternative to Sharepoint
- Liferay for
  - Communities (organizational departments) and Personalization
  - Collaboration
    - ~ Calendars, Message Boards, Directories
  - Branding (Theme)
- Alfresco for
  - Create/View/Modify folders and documents
  - Check-in/out and version control
  - Full-text indexing and search
  - Email Alerts
- Integration for
  - Custom Alfresco portlets to expose Alfresco functions above
    - ~ Web Services vs. Webscripts
  - Searching across Liferay and Alfresco content (OpenSearch)

# Alfresco Webscripts in Liferay

The screenshot shows the Liferay CMS interface. At the top left is the LIFERAY logo with the tagline "Enterprise. Open Source. For Life." Below the logo are navigation buttons: Home, Test Page, Test Page 1, and Add Page. A modal dialog titled "Add Content" is open, featuring a search box labeled "Content" and a tree view of content categories. The "Alfresco" category is expanded, showing a list of webscripts with "Add" buttons next to each:

- Alfresco Client Portlet
- Alfresco Content
- Document List
- My Documents
- My Spaces
- My Tasks
- My Web Forms
- SAMPLE

Other visible categories include Admin, CMS, Journal, Collaboration, Community, Entertainment, Finance, Google, News, Polls, Religion, Sample, Shopping, Tools, Undefined, and WSRP.

# Alfresco Webscript in Liferay

The screenshot displays the Liferay portal interface. At the top, the LIFERAY logo is visible with the tagline "Enterprise. Open Source. For Life." Below the logo, there are navigation tabs: Home, Test Page, Test Page 1, and Add Page. The main content area is titled "mydocs" and features a document management interface. It includes tabs for "All Items", "Word Documents", "HTML Documents", "PDF Documents", and "Recently Modified", along with a "Refresh" button. A single document, "Alfresco-Tutorial.pdf", is listed with the following details:

- Description:
- Modified: Jul 17, 2007 1:17:41 PM
- Modified By: 10202
- Created: Jul 17, 2007 1:17:41 PM
- Created By: 10202
- Size: 4351.57 KB

Below the document list, there is a preview section for "Alfresco-Tutorial.pdf" showing a PDF icon and the following metadata:

- Title: AlfrescoTutorial
- Created: Jul 17, 2007 1:17:41 PM
- Creator: 10202
- Modified: Jul 17, 2007 1:17:41 PM
- Modifier: 10202
- Author: paulhh
- Size: 4351.57 KB

The preview content includes the text: "February 19, 2007 Copyright © 2005-2007 Alfresco Software Limited. All Rights Reserved". At the bottom of the preview, there is a table of contents for the tutorial:

- Alfresco - A Fresh Approach to Content Management
- Tutorial
- Overview ..... 2
- Starting with Alfresco ..... 3
- Adding New Users .....
- ...

At the bottom of the document list, it says "Showing 1 item(s)".

# Case Study #2

- Use Case: Content-rich Collaboration Application
  - Enterprise 2.0 application for the education sector
- Liferay for
  - Rapid web site development / page layout / theme creation
  - Content navigation
  - Future extensibility
- Alfresco for
  - Rich content modeling for numerous content types (documents, images, audio, video)
    - ~ Metadata and “Tags”
    - ~ Categories
  - Full-text indexing/search of documents
  - Ranking content
- Integration for
  - Browsing for content according to categories via custom portlet
    - ~ Using Alfresco webscripts
  - Simple but powerful search and retrieval
    - ~ Single search box to query indexes and metadata

# Case Study #3

- Use Case: Cross-Enterprise Platform
- Liferay for
  - Content delivery system
  - Personalization and aggregation
- Alfresco for
  - Platform-wide content management
  - Multi-enterprise management
- Integration for
  - Custom Alfresco portlets to expose Alfresco functionality
  - Searching across Liferay and Alfresco content (OpenSearch)
  - Integrated authentication

# Issues

- Authentication across Liferay 4.3 and Alfresco 2.1
  - Using Alfresco database for authentication
    - ~ req.getRemoteUser() in Liferay
  - User uniqueness across both applications
    - ~ Impractical to assume username is unique
- AJAX compatibility (Webscripts)
  - Inability to use Webscripts OOTB
- Remoting (lack thereof)
  - Deployment hassles due to running Alfresco and Liferay in the same web container
- Multiple companies
  - Company Home not sufficient for cross-enterprise platforms
- UI component reuse
  - Alfresco UI is attractive to use in a portal environment
  - Possible Webscript integration with Alfresco UI components (dialogs, wizards, workflow)

Q&A

Roundtable Discussion