



CMFDeployment

New Orleans - August 22 ,2005

*Never doubt that a small, group of thoughtful
Committed citizens can change the world.
Indeed, it is the only thing that ever has.*

-Margaret Mead



Goals

- ▶ Take a static copy of a phone site and put it somewhere else.



What does this Achieve

- ▶ Remove Plone/Zope for content delivery, let plone focus on strengths of content management
- ▶ Empower new uses of both Plone the Product and Plone the Framework.



History

- ▶ Written in 2002, for a large US Government department, wanted to deploy security notices...
- ▶ Across multiple networks with paranoid levels of security.
- ▶ Plone 1.0 CMS for content, CMFDeployment for multiple site static generation and transport across the system.
- ▶ Community Support resurrected development after a several year hiatus (thanks Calvin Hendryx-Parker, Tahara Yusei)



Features

- ▶ Configurable Rendering of Content
- ▶ Extensive pre and post filtering options for adding business logic
- ▶ Multiple Deployment Options
- ▶ Extensive Logging



Features Continued

- ▶ Supports Composite Content Types (Folderish Content)
- ▶ Configuration exportable/importable to XML
- ▶ Memory Efficient
- ▶ Extremely Pluggable.
- ▶ Incremental Deployment *with caveats*



Caveats

- ▶ Complex Configuration
- ▶ Static deployment is the antithesis of personalization and runtime dynamics.
- ▶ Search functionality requires usage of separate system



Deployment Cycle

- ▶ Identify Deployable Content
- ▶ Match to a Content Rule (MimeMapping)
- ▶ Render Content
- ▶ URL Rewriting and Post Processing
- ▶ Storage
- ▶ Transport



Identifying Content

- ▶ Pluggable Content Sources
- ▶ Default Catalog Source
- ▶ Arbitrary Filtering via Filter Expressions and Scripts



Content Rules

- ▶ Control the content processing
- ▶ The rendering method we want to use (page template, external method, etc.)
- ▶ Extensions nesc for static server
- ▶ Support
- ▶ Pluggable, and ships with an example plugin



Content Rendering

- ▶ Skin Selection
- ▶ User Selection



URL Rewriting

- ▶ Adding Extensions for proper mimetypes,
- ▶ Tracks content deployed, rewrites links



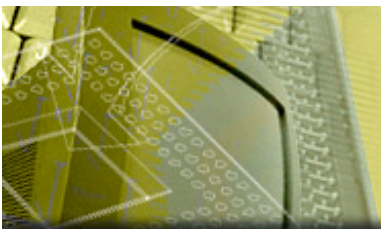
Transport and Storage

- ▶ Default Storage layer on the filesystem
- ▶ Default Transport layer (rsync/ssh)
- ▶ SiteCopy support by

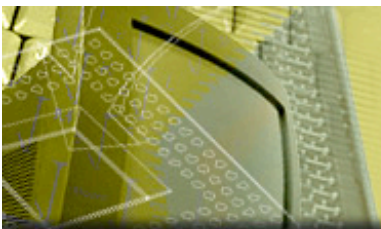


Incremental Deployment

- ▶ Modification Time Based
- ▶ Doesn't capture template and object dependencies
- ▶ Parent Child relationships



Use Case Demo - Enterprise CMS



Use Case Demo - Personal Blog



Use Case Demo - XML Export



Searching Revisited

- ▶ Utilize Search Engines



Future Directions

- ▶ Structural Remapping
- ▶ Plone 2.1 Compatibility
- ▶ SQL/SVN Storages
- ▶ Multiple Deployable Content Views
- ▶ Dependency Injection



Project Links

- ▶ Project Homepage -
<http://projects.objectrealms.net/projects/cmfdployment/>
- ▶ Dev List
<http://lists.objectrealms.net/mailman/listinfo/cmfdployment>
- ▶ SVN
<https://svn.objectrealms.net/svn/public/cmfdployment/trunk>



Questions