Ametys : a web CMS tailored for JASIG community

Why UPMC chose Ametys?

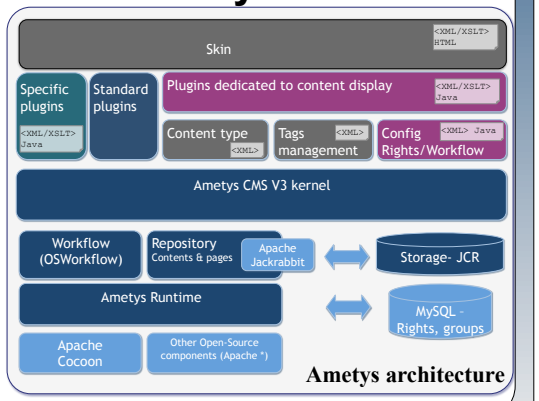
The situation at UPMC

- Involvement in ESUP-Portail Consortium
- CAS and uPortal already deployed
- JASIG technologies mastered by IT teams : Apache, Tomcat, Java, XML, XSLT for uPortal skin development

Ametys architecture & connectors

- Open Source (Apache licence)
- Accessibility support
- Apache + Tomcat + Java + XML + Jackrabbit + Lucene
- **XSLT** for skin development
- LDAP, **SSO-CAS** and Shibboleth authentication connectors

⇒Ametys uses many of the technologies used by JASIG. As a result, deploying and developing websites with Ametys is easy for IT teams familiar with JASIG components

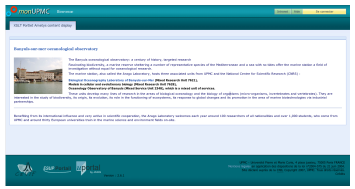


Ametys architecture

Ametys integration into uPortal and higher education IT

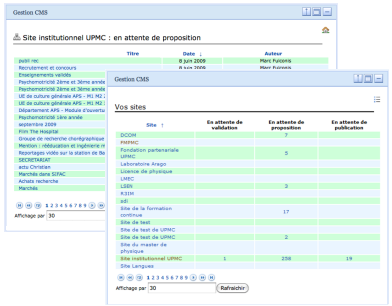
Content display portlet

- XML-XSLT portlet
- Uses Ametys Web Service to get XML-Docbook output from a webpage
- XSLT stylesheet "Docbook to HTML" provided by Ametys
- Portlet displays a page from a website hosted by Ametys CMS



Dashboard portlet

- Uses Ametys Web Service to execute query on content repository
- Portlet displays a list of websites where user can contribute
- Portlet displays for each website a list of contents that user can modify or validate (ie contents awaiting validation to go live)
- Columns sortable by author, date and workflow step

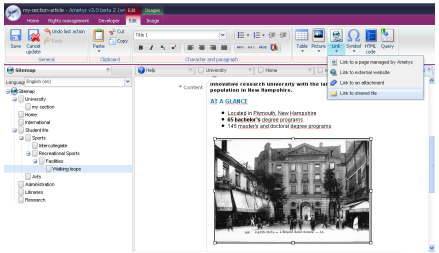


Integration with ECM/DMS

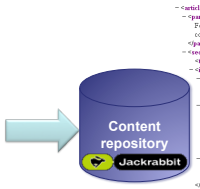
- Ametys provides wizards to insert resources from a ECM or DMS into pages
- Ametys also provides a basic DMS to manage shared resources
  - Formerly: possibility to use any **WebDAV** compatible repository instead of built-in DMS
  - Under development: possibility to use any **CMIS** compatible repository instead of built-in DMS

Storage technologies for long-term and agile reuse of contents

From WYSIWYG editor



to content storage (in XML-Docbook)



to HTML

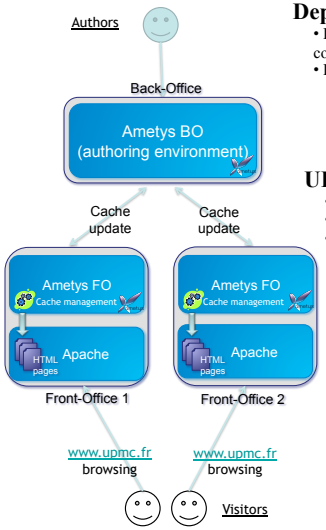
Ametys stores rich contents in XML-Docbook, when other CMS use HTML or XHTML format

- Warranty that no parasite code is stored
- Easy reuse of the same data source for several output formats (HTML for mobile, PDF, Word…)
- Easy update of many websites when:
  - A new skin design is issued
  - HTML standards evolves (HTML 4 to HTML 5…)

Ametys' choice for contents persistence : Apache-Jackrabbit

- Jackrabbit is the Apache implementation of JCR: JSR-170
- CMIS compatible
- Provides content versioning and indexing features of Ametys
- Supports clustering

UPMC and web CMS deployment



Cluster deployment for FO

Deployment model

- Back-office server: authoring environment for contributors
- Front-office server:
  - static pages provided by *httpd apache*
  - dynamic pages provided by *tomcat* (search engine, forms…)
  - Cache updated by BO when necessary

UPMC deployment

- Different security policies for BO and FO servers
- Clustered Front-Office
- 45 websites managed by Ametys

Ametys facts

- More than 20 French universities (ESUP-Portail consortium members) use Ametys for their websites.
- Java Open Source
- Pure web CMS
- 6 years old
- More than 20 000 live websites (in education and private companies)
- Very easy to use for contributors
- Compliant with WCAG accessibility standards

Ametys v3 and beyond

- v3 release in May 2010 !
- Looking forward for feedbacks from JASIG community for a better integration with uPortal

Authors

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