PASIG Meeting

Vendor Solutions:
VTLS and its Digital Repository Software, VITAL

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VTLS is the first spin-off corporation from Virginia Tech in Blacksburg, Virginia, USA.

VTLS is an international company doing business in more than 40 countries.

VTLS has offices/wholly owned subsidiaries in 7 countries.

VTLS has four major products:

- **Virtua**: Integrated Library System (including Social OPAC)
- **VITAL**: Institutional Repository Software
- **Visualizer**: Discovery tool for distributed content
- **VTRAX**: RFID based tracking & security systems for libraries
Trends and Developments
VITAL Authentication & Access Control

Access Control -- Summary

Users

Groups

Permissions And Overrides

Repository

Sites

Objects

Data Streams

Tasks
The normal authentication mechanisms are supported:

1. Local userid and password
2. LDAP
3. Shibboleth
Access Control

There is interaction among

a. Object permissions
b. Tasks
c. Users permissions
Access Control – Tasks

a. The system has more than 60 “tasks” that users can perform.

b. Examples of tasks are –
   a. View records or data streams
   b. Enter records or data streams
   c. Edit records or data streams
   d. Give permissions
   e. Run reports etc. etc.
Access Control – User Permissions

a. Users belong to one or more groups.

Groups can be created for functions like cataloging or acquisitions; or by enrollment in classes like English 101; or by habits or hobbies like Jogging.

b. Members of the group are given permissions or denied permissions to perform “tasks” from the task list.

c. Members of the group are given access to the whole repository, to one or more sites, to one or more objects or to one or more data streams.

d. Permissions are inherited
Each site is a **Virtual Repository**, consisting of:

a. Logical partitioning of objects

b. Individual interfaces

c. User groups and permissions
Access Control – Objects & Permissions

a. An object consists of one or more datastreams.
b. An object can belong to one or more “sites”
c. A repository consists of one or more sites.
d. Permissions can be assigned at the repository level (global permissions), at the site level, at the object level or at the data stream level.
e. Unassigned permissions are inherited from the higher level.
VITAL : Using Cloud-Based Streaming

The VTLS VITAL Architecture

Public Interface
- Object Displays
- Hi-Res Image Navigator
- Document Navigator
- RSS Feeds
- Citations Export (with QuikBib)
- Statistics

Index Services
- SOLR/Lucene
- THUMBNAILS
- FULLTEXT
- JHOVE
- PREMIS
- HANDLES ASSIGNMENT
- METADATA
- SYNCHRONIZATION
- STATISTICS

VITAL SERVICES LAYER

Fedora

VITAL Content Manager

Fedora OAI Provider

Batch Submission Tool

Online submission tool VALET

VTLS OAI Provider

ACCESS PORTAL

Administrative Tool
- Object Management
- Reporting
- QuickEdit XML
- Access Control
- Vocabulary Lists
- Contribute Objects

Cloud Streaming Services

Streaming Requests

Authentication and Search Requests

Users
New Customer Projects

a. Virginia College of Osteopathic Medicine
   • Creating VCOM-TV
   • Recording Lectures for students to play back
   • Adding extras for students to watch in addition to class

b. Kansas City Public Library

c. Virginia Tech

d. Queens Library
New Customer Projects

a. Virginia College of Osteopathic Medicine

b. Kansas City Public Library
   • Using VITAL API + Drupal
   • Creating a “one-stop-shop” for all research about Kansas City

c. Virginia Tech

d. Queens Library
New Customer Projects

a. Virginia College of Osteopathic Medicine

b. Kansas City Public Library

c. Virginia Tech
   • Creating a repository of Civil War newspapers
   • Using Consortium functionality to expand to other departments

d. Queens Library
New Customer Projects

a. Virginia College of Osteopathic Medicine

b. Kansas City Public Library

c. Virginia Tech

d. Queens Borough Public Library

• Creating a repository from archives
• Documenting natural, social, economic and political history of Queens, King, Nassau and Suffolk counties
• Using VITAL API + Drupal
Questions ...

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