Examples of OSS in E-government

Real World Solutions in the US Federal Government

October 18, 2002



Peter Gallagher

Perspective - IT Services - devIS

- Design, develop, and operate custom internetworking applications
- US Federal Clients
 - Department of State
 - Department of Labor
 - General Services Administration (GSA)
 - US Agency for International Development
 - National Center for Health Statistics
- UN Agencies, private consulting firms
- Services in over 50 countries
- Supporting Egov in Jordan

US Federal Clients - What are they buying?

- Data collection / sharing applications
- Dynamic Web-sites controlled user access to content
- Standards based Elearning (SCORM)
- Security / High performance / Hosting (incl. .GOV)
- Flexible design / adapt to changing requirements
- Low cost lifecycle (3 to 5 year basis)
- Easy to use / minimal training

Open Source? Who cares... Standards Based? Yes! Yes!

3 Applications Compared

- International Focus 2 used world-wide
- Distributed data collection track \$100 Millions
- Secure / private not public Web sites
- Various connectivity issues
 - From high speed to no speed
- Open source and proprietary tools / practical
- Each has a different architecture
 - Fat client HTTP/XML near real time (Web service)
 - Federated HTTP/XML messaging (Web service)
 - Web browser HTTPS/HTML classic Web forms



Federal Exchanges Data System/WWW

Interagency Working Group on U.S. Government Sponsored International Exchanges and Training

- US State Department 1999
- Summarizes US sponsored international exchanges
 - US Citizens to overseas
 - Exchange visitors to the US
- All Federal Agencies Report summary (no names)
- Java Application "Fat client" downloaded and installed on local PC.
- Communicates directly with database server using XML formatted data – treated as a Web service
- High performance only XML data transferred interface and some look-up tables stored locally

FEDS/www _ 0 Edit View Administration Help File 🕵 🗳 🔓 📲 📕 Fulbright-Hays Doctoral Dissertation Research Abroad Program +- Department of Agriculture + Department of Commerce Information Categories National Interests Notes Summary Contacts Staff Notes Report Caveat Notes +-- Department of Defense Section 1 - Department of Education All or a major portion of the program/activity is: F- Office for Civil Rights Academic Office of Bilingual Education (Ŧ and Minority Languages Affairs If academic, which of the following best describes the academic level of the program/activity? ₹. If other, specify: Elementary School Office of Educational Research ÷ and Improvement C Designed to impart professional and/or practical experience Office of Elementary and († Designed as an observation experience or study tour Secondary Education Research (both academic and non-academic) Office of Postsecondary Ė Education If you did not check any of the above, provide a brief characterization of the nature of the program: American Overseas (Ŧ) Research Centers Program European Community-U.S.A Joint Consortia for +- Cooperation in Higher Education and Vocational Education Program Fulbright-Hays Doctoral **Dissertation Research** , È Section 2 Abroad Program If the program/activity falls under one or more of the following specialized categories, check all that apply: 1998 Scientific 1999 Defense/Military 2000 Cultural 2001 Rule of Law (including Law Enforcement and Administration of Justice) Fulbright-Hays Faculty + Research Abroad Program International Visitor Briefings/Tours

Fulbright-Hays Group

Feds/hg

TraiNet2

- US Agency for International Development 2001
- Plan and monitor details of training programs that happen in a host country or third country
 - Purpose of training / results
 - Estimated cost / dates / logistics
- USAID Missions and hundreds of contractors and grantees in over 50 countries – distributed via CD
- "Federated" application installed locally Borland Delphi to MS Access database – multi-user
- Shares data between sites and <u>central repository</u> via messaging
- Local control/ownership no high speed Internet access required

🖡 Create a Training Program



Training Program Wizard

A Training Program is a learning activity designed to improve the performance of participants by developing knowledge, skills, or attitudes. Training programs are funded separately from technical assistance.

Long-term degree programs, non-degree technical training, seminars, conferences, workshops, and study tours are just a few

Instructions (* Indicates required data entry)

- *1 Select the Activity that will fund this training.
- *2 Enter a Name for this training program. The name will identify this program in your training reports.
- * 3 Select the Training Type. In rare cases you may need to create a new training type by choosing <Add New Item> from the list.
- * 4 Select the Training Location. In-Country, Third-Country, or U.S. Training.
- * 5 Select the Method of Training. If training takes place in a way other than first hand select Distance Learning (example: On-Line College Course), otherwise select Traditional.

* Activity		
*Name		
* Training Type		
* Training Location		
* Method of Training		
	Cancel < Back	Next >

The United States Agency for International Development

CREDIT MANAGEMENT SYSTEM

- US Agency for International Development 2002
- Track development credit activities (\$s and local)
 - Credit agreements / use of funds
 - Losses/claims from default, payments
- USAID, payment agent, and 100s banks worldwide
- Web browser application using standard forms to post data (option MS Excel XML off-line)
- Dynamically generated screens based on role
 - Bank, Mission, payment agent, HQ, Analyst, SysAdmin
- Allows for direct collection of performance data and eliminates hard copy reports

CN

Dynamic Content Based on Role

 Depending on User Role appropriate Menus and scope (add, edit, view, etc.) are presented.

CREDIT MANAGEMENT SYSTEM

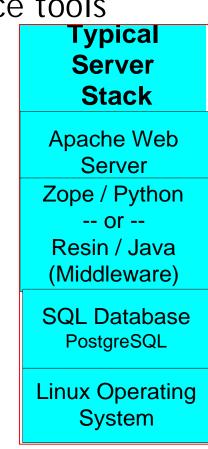
The United States Agency for International Development

All content is dynamically created for each page

Headquarter User ->	Main Reports	Credit Monitoring User Management	Offline Forms
Bank User below	User Management This section controls authorization and the ac profile is created and stored when new users edited or deleted. Access rights are divided ir and their roles is permitted only to certain his	Available Actions ODC/Staff Users Intermediate Financial Institution Users Mission Users Payment Transfer Agent	
Main Credit Monitoring	User Management Offline Forms	ta for	Users Special Users
User Management This section controls authorization and the ad is created and stored when new users are au	이 방법에서 도둑 가지 않는 것도 같은 것이 같은 것이 같이 많이	Available Actions Intermediate Financial Institution Users	

OSS Application Stack

- Utilize XML
- System developed as and with open source tools
- Site uses open source projects:
 - XML Blaster messaging server
 - Zope / Resin middleware
 - Apache (Web server)
 - Python/Java
 - HTML/XML/CSS
 - PostgreSQL / MySQL (SQL Database)
 - Linux (OS) / OpenBSD (firewalls)
 - Analog (Web statistics)
 - Intrusion detection/firewalls numerous



Questions & Answers - Misc

CONTACT:

Peter Gallagher, devIS, 703-525-6485 <u>PGallagher@devis.com</u>

BTW - Latest launch Oct. 16 - fully dynamic content expert managed - written in Python - Zope!

WWW.DisabilityInfo.gov