

Next Generation Person Registry with OpenRegistry

-or-

"The Fellowship of the Identity"



SIMON FRASER UNIVERSITY
THINKING OF THE WORLD



Agenda

- Project Overview
- What is OpenRegistry?
- OpenRegistry Approach
- Benefits
- Project Status
- Road Map
- How Can You Help?

Presenter And Contributors

- Presenter: Omer Almatary
 - Rutgers University – New Jersey
 - Identity Management Consulting Application Manager
 - Joined Rutgers University in April 2010
 - Background: Identity Management and Directory Services (Telecommunications)
- Contributors to This Presentation:
 - Benjamin Oshrin : The Oshrinium LLC, OpenRegistry Pioneer
 - Jeremy Rosenberg: Simon Fraser University , IDM Architect
 - David Steiner: Rutgers University , IDM Architect

Project Overview

- Open source software application
 - Initiated by Rutgers University – Mar 2008
 - Became a Jasig Incubator project – Jan 2009
 - SFU joined the project – late 2009

What Is OpenRegistry

- An Open Source identity Management System, a place for data about people affiliated with your institution
- Identity store, but generally NOT authoritative
 - SoRs are authoritative for most data
- Identifier assignment (NetID, ID Card#,)
- Identity reconciliation for multiple SoRs. It combines distributed identity information into single identity records

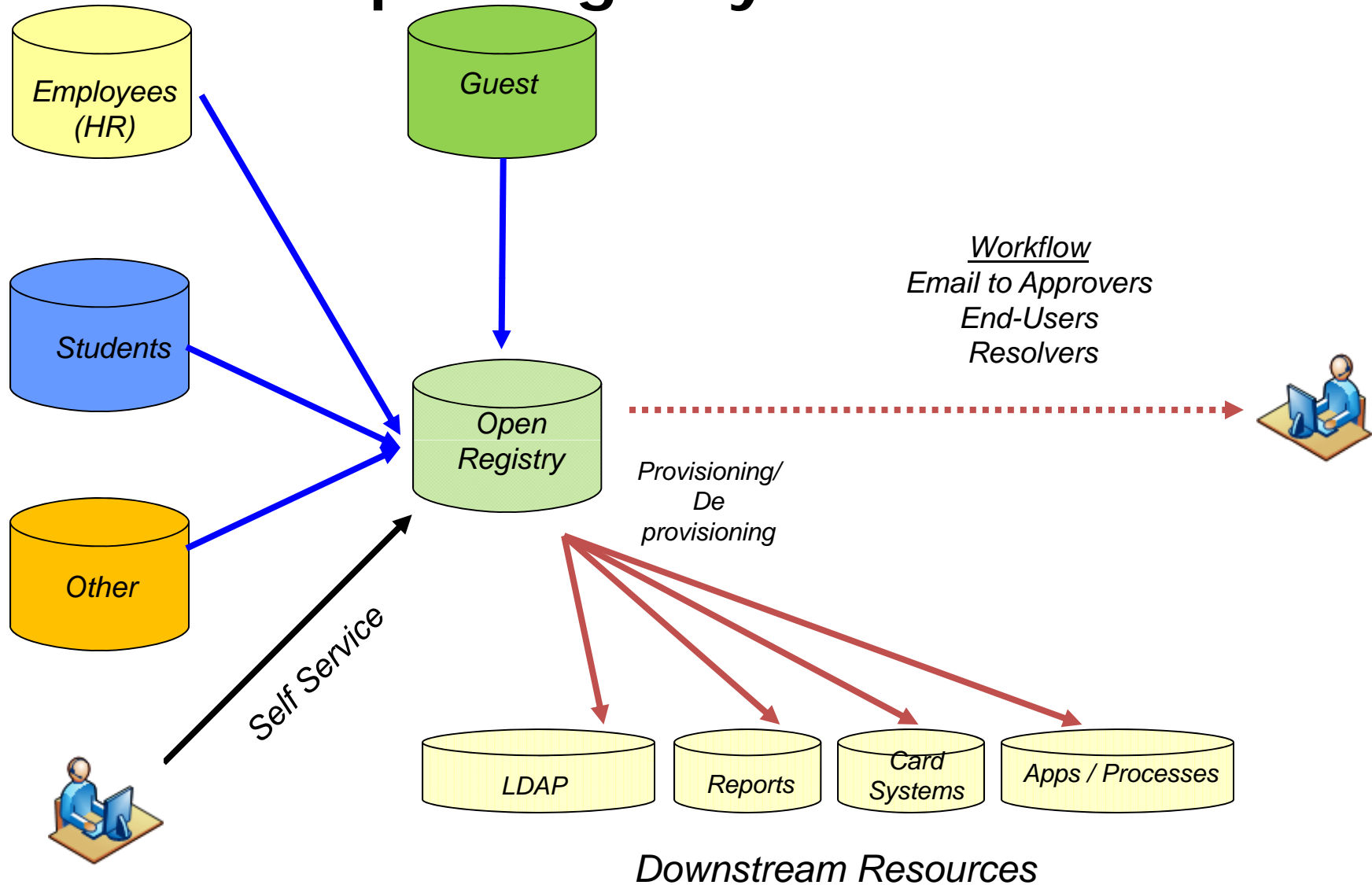
What Is OpenRegistry

- Provisioning/De provisioning engine
 - Real time /Near Real time
- Workflow engine
 - Approvals for temporary affiliation (Guest)
 - Send Activation Keys
 - Send notification to resolvers
- Interfaces (In-bound):
 - Web (Self Service)
 - Batch
 - REST

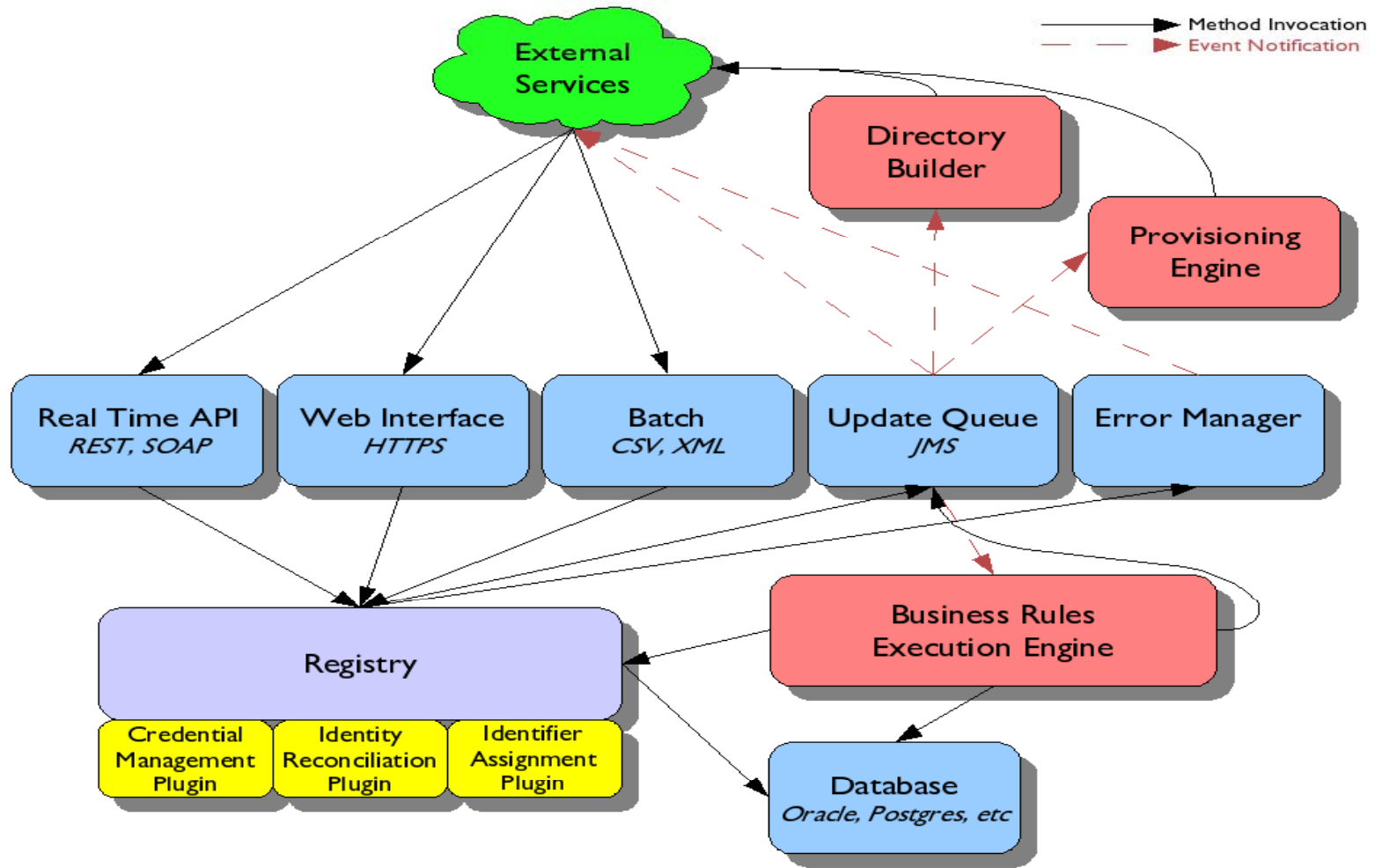
What Is OpenRegistry

- Interfaces (Out-bound)
 - Queues (AMQ)
 - Batch
 - Directory , Reporting server, DB Views
- Reporting/Auditing engine
 - Report server
 - » Who has what access to what resource and why ?
 - » Attestation
- Directory builder
- Additional functionality
 - Data beyond Persons: Groups, Courses, Credentials, Service Accounts

What Is OpenRegistry ?

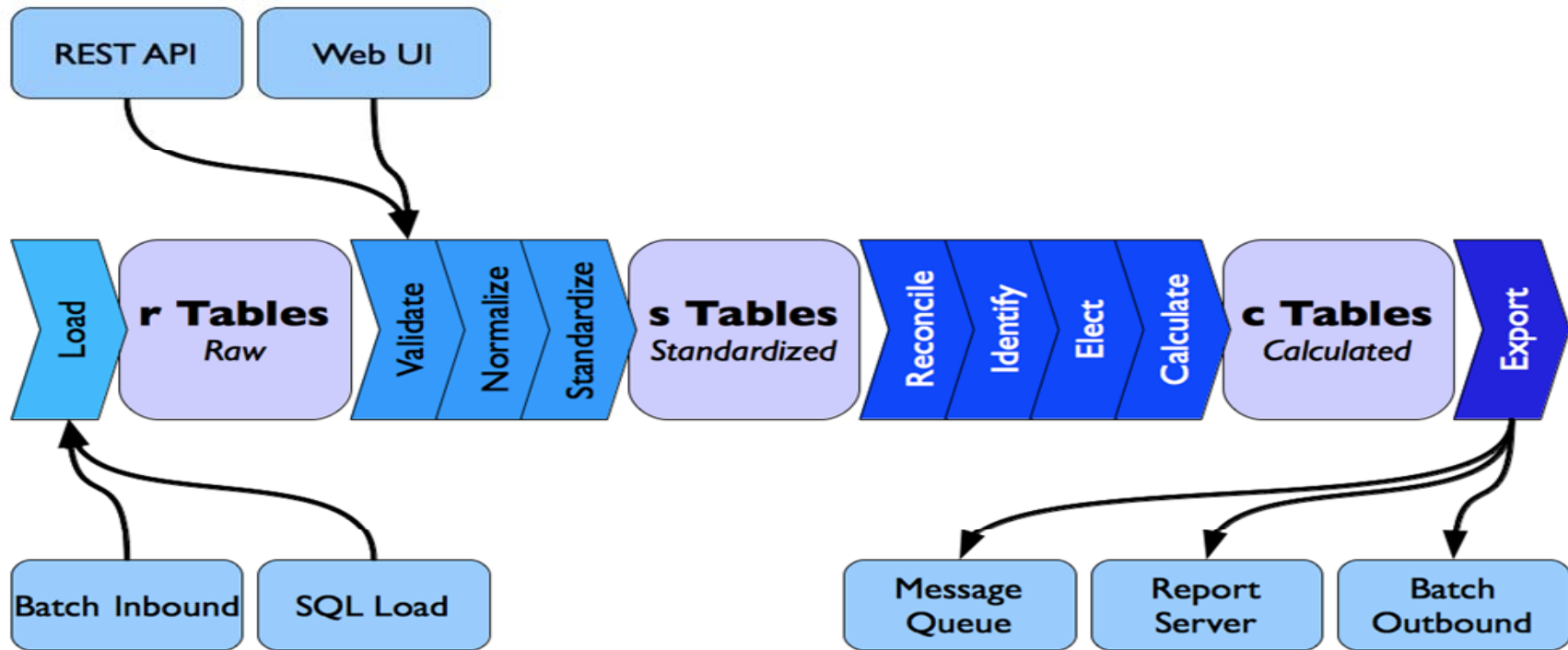


Component Architecture



Component Architecture

OpenRegistry Architecture
Data Flow, June 2009



OpenRegistry Benefits

- Capture information about all university populations (students, staff, faculty, guest, visitors, continuing ed, alumni, retirees, emeritus, etc...)
- Faster propagation of data from SoRs , real time where possible
 - RESTfull API's
- Role based access control
- Self service User Interface
 - Guest creation/sponsorship
 - Password reset via activation key
 - Help Desk/HR administration

OpenRegistry Benefits

- User settable privacy setting (disclosures)
- Automating User Lifecycle Management (On-Boarding, Off-Boarding, Approvals, etc.)
- Authorization model out of the box
- Modular system
 - Localize Your Web Interface for look and feel
 - Develop your own batch business logic
- Regulatory compliance
 - Provide timely audit and attestation
- Better user experience for every one

OpenRegistry Benefits

- “Off the shelf” solutions usually end up requiring significant customizations and integration work and/or solve only a portion of an institution's needs.
- Provides long term, sustainable model
- Combined institutional efforts better leverage scant resources and allow for learning from others' experience (eg: Sakai, uPortal, CAS, Shibboleth, Quali)
- OpenRegistry is tailored to the needs of higher ed
- Decades of combined experience from before the field was called “Identity Management”

OpenRegistry Benefits

- Benefits of Migration to OR
 - Avoidance of vendor lock-in
 - Commercial solutions aren't drop-in, customization work needed
 - Easier to tailor to future needs
 - Community of similar institutions in similar situations

OpenRegistry Approach

- Generic architecture and data model
- Transparent, agile development process
- Multiple levels of engagement with the Higher ed community
 - Discuss: Review design documents, identify gaps and changes
 - Develop: Help write code, documentation, etc
 - Deploy: Run OR as an IDMS (when released)
 - Donate: Contribute resources to help with development and outreach
 - Encourage others to join the work force
- Build on lessons learned from other Jasig successful Open source projects (CAS, uPortal)

Project Status @RU(OpenRegistry Core)

- Generic data model designed and reasonable stable
- Core domain objects and base service layer code is stable
- Authorization module completed and tested
- Web UI authentication is integrated with CAS
- Reconciliation/Calculation Enhancement completed
- Normalization and Standardization completed
- RESTful API's majority designed
- Identifier assignments completed

Project Status @RU(Risk Factors)

- HCMS (HR) launched a new ERP (PeopleSoft) in January 2011
 - Too many moving parts
 - Integration with the Legacy People Data Base (PDB)
- Lost of key resources (Developers)
- Data Integrity
 - Need to certify OpenRegistry with real production data

Project Status (0.8 – Certification1 Release)

- Scope :
 - Initial load from legacy People Data Base (PDB)
 - Student Record system batch feed
 - HR Record (PeopleSoft) system batch feed
 - OpenRegistry views (legacy PDB-like)

Project Status (0.8 – Certification1 Release)

- Time Line : May,16 2011
- Most of the work is Rutgers specific
- Deployed In Pre Production Environment
- Worked with Real production data from two SoRs (HR and Students)
- Worked In parallel with the legacy People Data Base (PDB)
- Run Validation every day
- Compare results from OpenRegistry repository and legacy PDB
- Use UI to view person for validation
- Use Views for validation

Project Status (0.9 – Certification2 Release)

- Scope:
 - Help Desk UIs
 - Add/Update person
 - Add/Update role
 - Delete role/person
 - View complete person
 - Disclosure (OpenRegistry Jasig update)
 - Person level
 - Attribute level
 - Personal Info Application
 - Update User's information on behalf of SoRs (email address, emergency contacts, etc..)
 - REST API's
 - Email Address Update
 - NetID change

Project Status (0.9 – Certification2 Release)

- Time Line : July, 29 2011
- Most of the work is Rutgers specific
- Deployed In Pre Production Environment
- Continue validation from previous release
- Test RSETful API for email update and NetID change
- Legacy PDB enabled applications system integration testing with the OpenRegistry Views

Project Status (1.0 – Beta Release)

Dependant on validation results from certification1 and 2

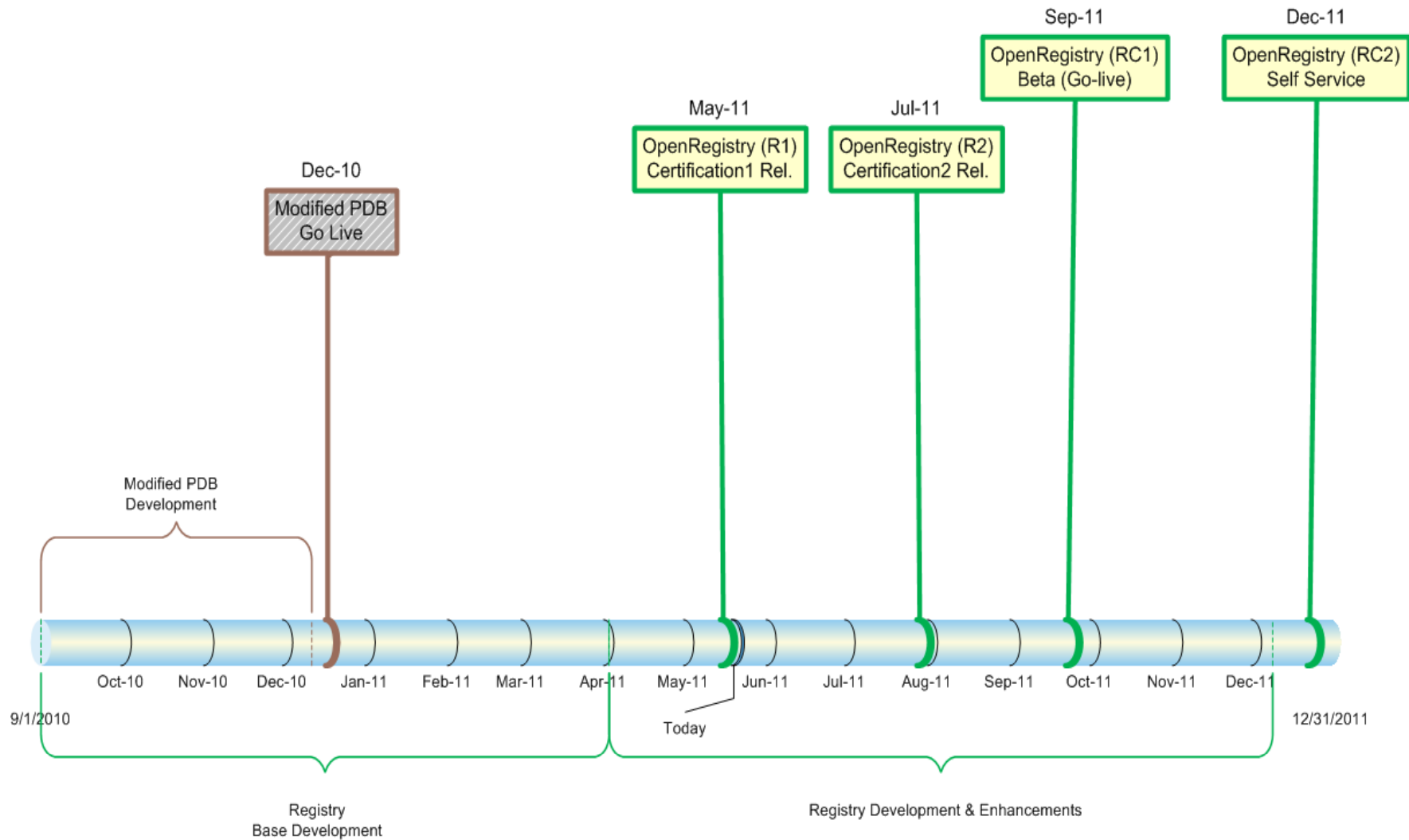
- Scope:
 - Help Desk UIs
 - Split/Join person
 - Authorization Tools (Administration/Delegation)
 - Generate activation key
 - Registry Feed to LDAP
 - AMQ – Implementation
 - REST API's
 - Add/Delete Person/Role
 - Update Person/Role
 - Add non Person (Program accounts)
- Time Line : September, 23 2011
- Deployed In Production Environment Go-live

Project Status (1.1 – Release)

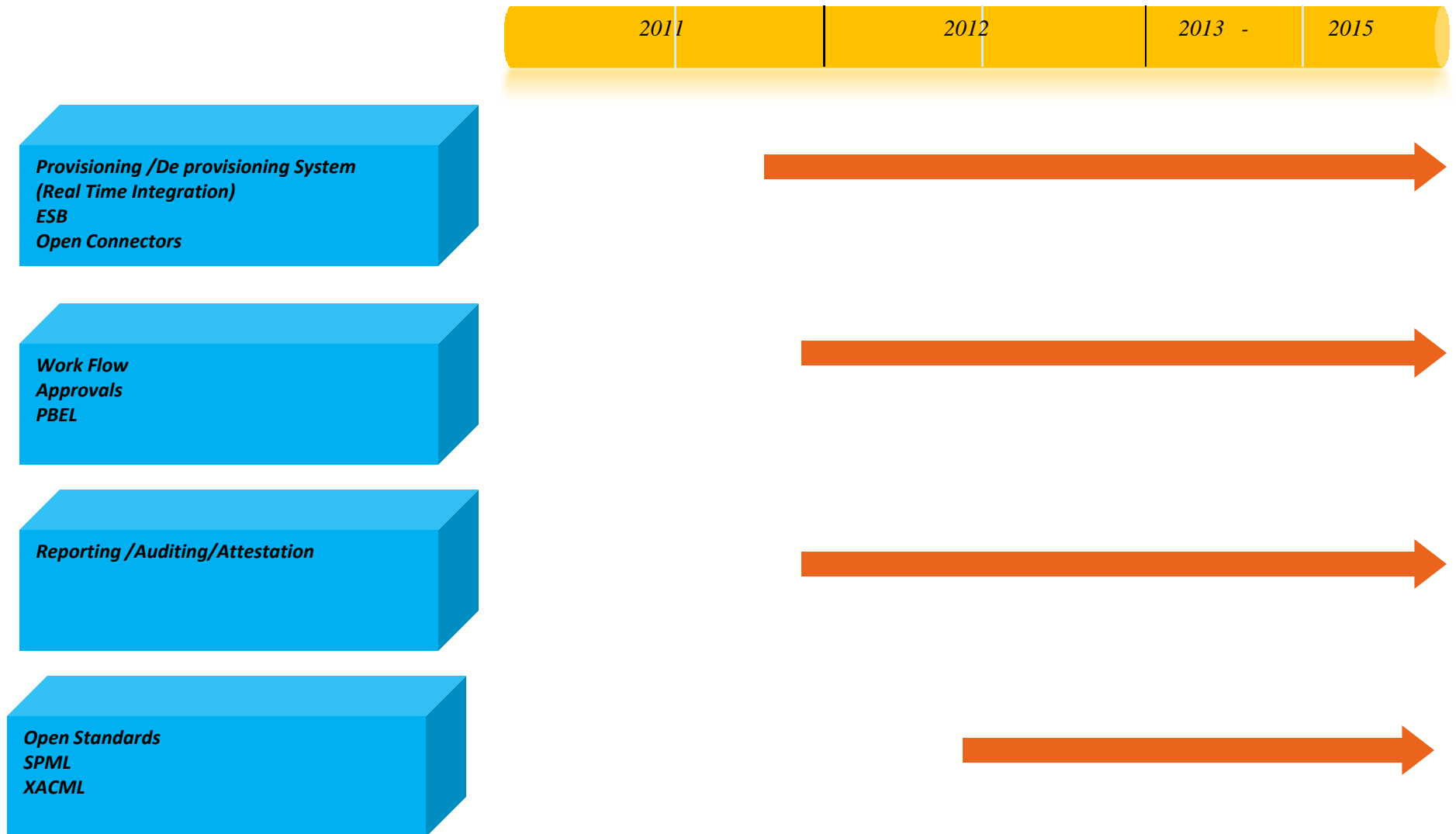
Dependant on validation results from certification1 and 2

- Scope:
 - NetID Management Tool
 - Password Set/Reset Self service
 - Activation key is sent to the end users
 - Real Time Provisioning via AMQ
 - ID Card System
- Time Line : December, 23 2011
- Deployed In Production Environment Go-live

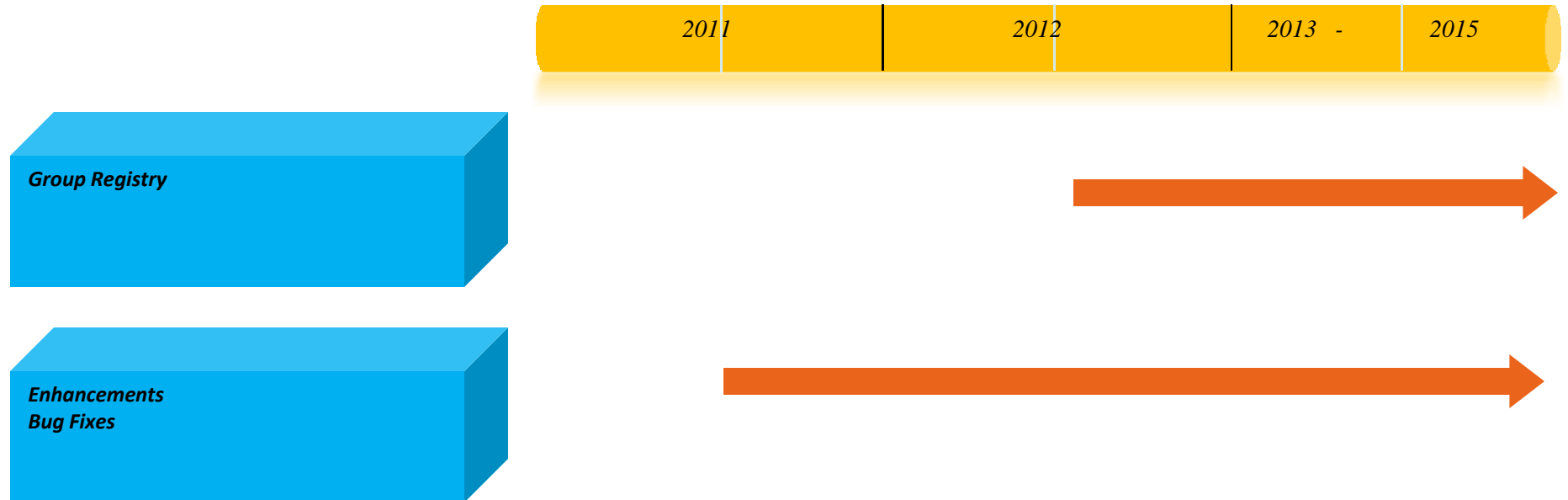
Project Status (@Rutgers University Timeline)



OpenRegistry Road Map



OpenRegistry Road Map

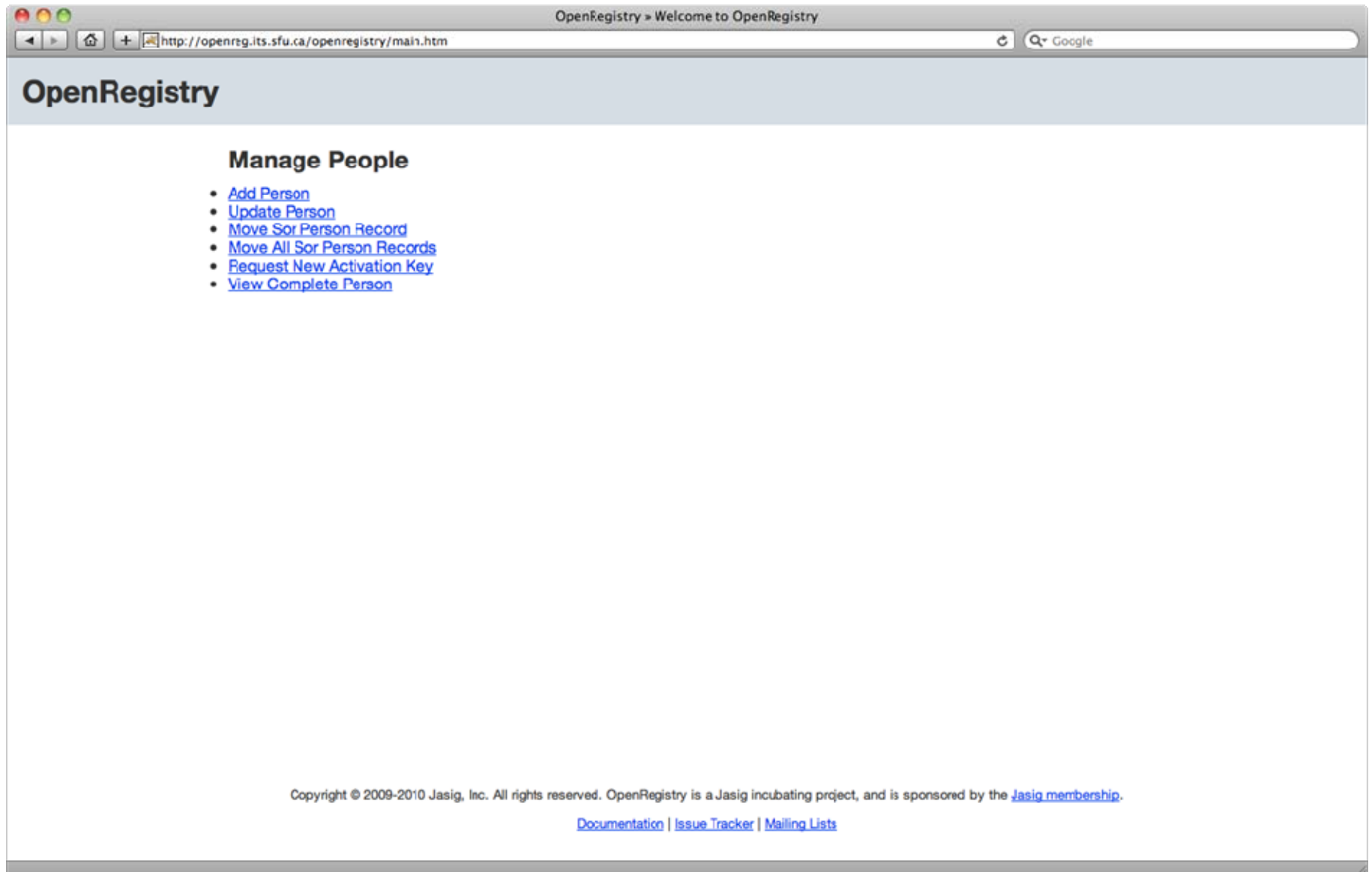


How Can You Help?

- Visit
 - <https://wiki.jasig.org/display/OR/Home>
 - <https://wiki.jasig.org/display/ORUM/Home>
- Join:
 - OpenRegistry Dev Mail List openregistry-dev@lists.ja-sig.org
 - OpenRegistry Monthly Call
- Attend a Jasig event <http://www.jasig.org/>
- Potential for collaboration could take many forms
 - Participation in or vetting of OR design
 - Evaluation for migration and adoption as OR matures
 - Adjustment of OR milestones according to your needs, with your resources

Miscellaneous

- Rutgers Implementation:
 - SpringFramework 3.0.5
 - Hibernate.version 3.5.5
 - Camel version 2.5.0
 - ActiveMQ version 5.4.2
 - Tomcast version 6.0.32
 - Java SDK 1.6
 - Database: Oracle 11g
 - HW: Sun
- Data Model
 - https://wiki.jasig.org/download/attachments/17006634/or-db-04-2011_model.pdf



The screenshot shows a web browser window with the title "OpenRegistry » Add a Person". The address bar contains the URL "http://openreg.its.sfu.ca/openregistry/add5orPerson.htm?execution=e3s1". The page header is "OpenRegistry".

On the left side, there is a navigation menu with the following links: "Find a Person", "Add a Person", and "Logout".

The main content area contains the following form fields and instructions:

- Required fields are marked with*.
- Prefix: A dropdown menu.
- First Name*: A text input field.
- Middle Name: A text input field.
- Last Name*: A text input field.
- Suffix: A text input field.
- Gender*: A dropdown menu.
- Birth Date*: A text input field with a placeholder "yyyy-mm-dd".
- SSN: A text input field.
- Email: A text input field.
- Phone Number: A text input field.

At the bottom of the form is an "Add Person" button.

At the bottom of the page, there is a copyright notice: "Copyright © 2009-2010 Jasig, Inc. All rights reserved. OpenRegistry is a Jasig incubating project, and is sponsored by the [Jasig membership](#)." Below this are links for "Documentation", "Issue Tracker", and "Mailing Lists".

The screenshot shows a web browser window with the title "OpenRegistry » Find a Person". The address bar contains the URL "http://openreg.its.sfu.ca/openregistry/viewPersonDetail.htm?execution=e1s1". The page header is "OpenRegistry".

On the left side, there is a navigation menu with the following items:

- Find a Person
- Add a Person
- Logout

The main content area is titled "Manage People" and contains the following instructions:

- Enter your search criteria in the fields below and click **Find Person**.
- Matching persons will appear below.
- Select a person to perform any of the following actions:
 - View a person's complete details
 - Update the Person
 - Move an Sor Person record to another calculated person
 - Move all Sor Person Records to another calculated person

Below the instructions are three input fields for search criteria:

- Identifier**: An empty text input field.
- Name**: An empty text input field.
- Date of Birth**: A date input field with the placeholder text "yyyy-mm-dd".

To the right of these fields is a grey button labeled "Find Person".

At the bottom of the page, there is a copyright notice: "Copyright © 2009-2010 Jasig, Inc. All rights reserved. OpenRegistry is a Jasig incubating project, and is sponsored by the [Jasig membership](#)." Below this are three links: [Documentation](#), [Issue Tracker](#), and [Mailing Lists](#).

The screenshot shows a web browser window with the URL `http://openreg.its.sfu.ca/openregistry/viewPersonDetail.htm?execution=e1s1`. The page title is "OpenRegistry » Find a Person". The main heading is "OpenRegistry".

Find a Person
Add a Person
Logout

Manage People

- Enter your search criteria in the fields below and click **Find Person**.
- Matching persons will appear below.
- Select a person to perform any of the following actions:
 - View a person's complete details
 - Update the Person
 - Move an Sor Person record to another calculated person
 - Move all Sor Person Records to another calculated person

Identifier:
Name:
Date of Birth:

Search Results

1 results were found for your query:

Name	ID	Roles	Gender	
Test Person Test	TPT399535548		F	<input type="button" value="Details"/>

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The screenshot shows a web browser window with the title "OpenRegistry » Manage People". The address bar contains the URL "http://openreg.its.sfu.ca/openregistry/viewPersonDetail.htm?execution=e1s2". The page header is "OpenRegistry". On the left, there is a sidebar with links: "Find a Person", "Add a Person", and "Logout". The main content area displays a "Calculated Person" record for "Test Person Test".

Calculated Person	
FORMAL Name	Test Person Test
Birth Date	March 3, 1903
Gender	Female
NETID	TPT399535548 (Primary)
Source: or-webapp <input type="button" value="Edit"/> <input type="button" value="Move"/>	
SoRID	1
FORMAL Name	
First:	Test
Last:	Test
Middle:	Person
Prefix:	
Suffix:	
Birth Date	Mar 3, 1903
Gender	Female
SSN	123456789
<input type="button" value="New Search"/>	

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Go to "http://openreg.its.sfu.ca/openregistry/addSorPerson.htm"

THANK YOU

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