PSU Central Person Registry

Product Information

The Penn State Central Person Registry is a **intelligent** identity store for person information. From a data store perspective it can store the following information:

- Biographic Information (with history).
    - Names, Addresses, Email Addresses, Telephone Numbers, Gender, Date of Birth
- ID Card Information to include a photograph.
- Person and Account Linkages.
- Directory Confidentiality Preferences
- Digital Credential Information (support exists for multiple credentials per person). The credentials are generated using an algorithm that pulls an available credential from an identity pool.
- Identity Assurance Information to include the event history.
- Internal and External Affiliation Support.
- User Comments.
- Registry Generated Identifier.

The registry is composed of the following components:

- The registry itself, which is a relational database (any hibernate dialect database can be used).
- A collection of Web Services that are SOAP-based.
- A rules engine that is used for affiliation transitions utilizing JBoss's DROOLS. The rules engine separates the business logic from the application code.
- A messaging component for notification of events and provisioning/de-provisioning requests (JMS and/or STOMP).
- A pluggable matching facility.
- Various UIs.
    - Identity Provisioning

Presentation

CPR Registry Evaluation Presentation

Code

The CPR code is Java-based. It contains two components, the CPR Core (database, and common routines) and the CPR Services (SOAP-based). The Open Source version of the Penn State Central Person Registry is Apache 2 licensed. The source code for the registry can be found in GitHub
In addition to the source code, Penn State has developed a QuickStart that includes all of the CPR compiled code, application and messaging servers, and sample data. The QuickStart is a fast way to kick the tires on the CPR without building the source code.

Road Map (within the next 2 months).

- Support for RESTful APIs. Code already exists for "GETs", the implementation for the remaining APIs should take 2 weeks.
- Support for non-person identities in the registry.

Resources

- CPR Design Wiki
- 8 Things You Should Know About The CPR