Integration Competency Center

Providing Efficient and Effective Access to Enterprise Data
Our Mission

The ICC was formed to identify, implement and execute standards and best practices for a service-oriented architecture based on the business requirements of the university.
Our Approach

- Customers
  - TAM
  - ESC
- EAI
- QA
- ICC
- Security
- EAC
- Development
- DBA
Our Structure

Analysts
Consistency Efficiency
Developers
Data Administrators
How can ICC help?

- Providing Infrastructure
- Advising Project Teams
- Coordinating Integration Projects
- Training Resources
  - Integration Analysis
  - Sample Code
- Testing Integrations
What is an Integration Project?

- Real-time integration with Enterprise Systems
- Synchronization with Enterprise Systems
- EAS Authentication
What is an Enterprise System?

- **Enterprise** = university-wide

- “System of Record” or “Authoritative Source”

- Examples today
  - Banner
  - i-Card
  - Enterprise Authentication System (EAS)
  - Vendor Services Application (VSA)
Real-time Integrations

- Querying, Creating, Updating, Deleting in Real-time
- Interface Options
  - Web Services
  - Java Message Service (JMS)
Example: Accept Online

- Web Service provides interoperability
- Requests can
  - handle segregation of data by campus
  - update Banner data
Example: uPortal

- JMS provides robust infrastructure
- Requests can
  - handle segregation of data by campus
  - update Banner data
Example: Nessie

- Infrastructure complexity is hidden
- Integration model provides flexibility
Synchronization

- Notification of changes to Enterprise Data
- Interface Options
  - JMS
  - Web Services coming soon...

Diagram:
- Enterprise-system Data Store
- Event
- Interface
- Client System
Example: SOEEA Time Reporting

- Notification of Banner data changes
- New users created automatically
Example: Service Desk

- Notification from multiple sources
- Vendor API used for target
Example: eAdmit

- Web Service provides interoperability
- JMS provides robust infrastructure
Example: Vendor Services

- Publisher
- Requests

- PRZM
- Upside
- FAMIS

Banner
EAS Authentication

- For any university Web application
- Multiple options
  - Standard EAS Authentication
    - University applications – Banner, Nessie, etc.
    - External applications – HireTouch, NSC, etc.
  - Trusted Prior Authorization
    - uPortal
    - Campus libraries online (Global Campus)
How to involve ICC

- Contact us: iccrequests@uillinois.edu
- Typical request process
  1. Initial contact
  2. Needs-assessment meeting
  3. Formal request for work – ITPC or WR
  4. Project resources and priority assigned
  5. Execution (Analysis, Development, etc.)
First Steps for an ICC Project

• Integration Overview
  – Provides an overview of the integration
  – Identifies components involved
  – Details the required changes

• Enterprise Object Template
  – Defines the structure of the object
  – Maps structural elements to a data source
For more information

- Available Enterprise Objects
  - http://wwwaits.uillinois.edu/
  - Follow “Enterprise Data” menu
  - SOA Registry coming soon...

- Service Guides available upon request
Questions?