A Web Services Network for Educational Data Exchange

44 Individuals from 33 Organizations

CDS TASK FORCE

AAMC CommonApp PESC

AACRAO ConnectEDU Phoenix

AcademyOne Credentials Solutions SFSU

ACT ED.Gov SIF Association

ASA FCMAT Student Clearinghouse

Apereo Georgetown Univ SungardHE

BCCampus OCAS Uleth

Brigham Young University Oracle Usafunds

Calif Community Colleges OUAC USC

California State University Parchment UT-Austin

Choice Solutions, Inc. Pearson Xap

SPEEDE SERVER

- Operated by private non-profit NSC since October of 2013
- Vendors would rather NSC not be responsible for the SPEEDE servers
- No Service Level Agreements
- Remains a single point of failure
- Proprietary Security Features
 - No Transparency to user community
 - No Opportunity for Peer Review
 - Third party storage of Personally Identifiable Information

EDEXCHANGE

What is EdExchange

- Payload Agnostic Data Exchange Web Service
- Open Source Security
- Eliminates Single Point of Failure through Redundancy
- Open Source Web Services
- Available to Vendors and Institutions

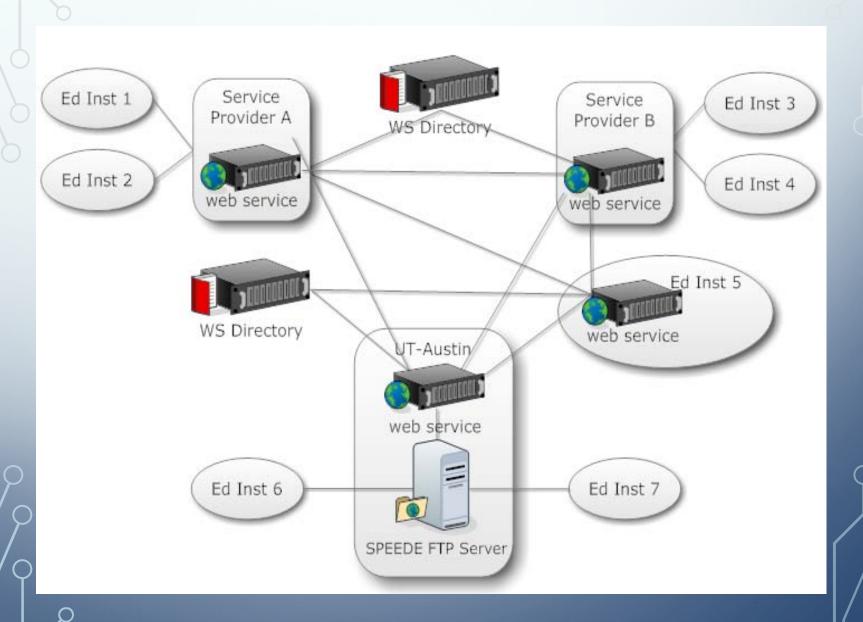
Challenges to be Addressed

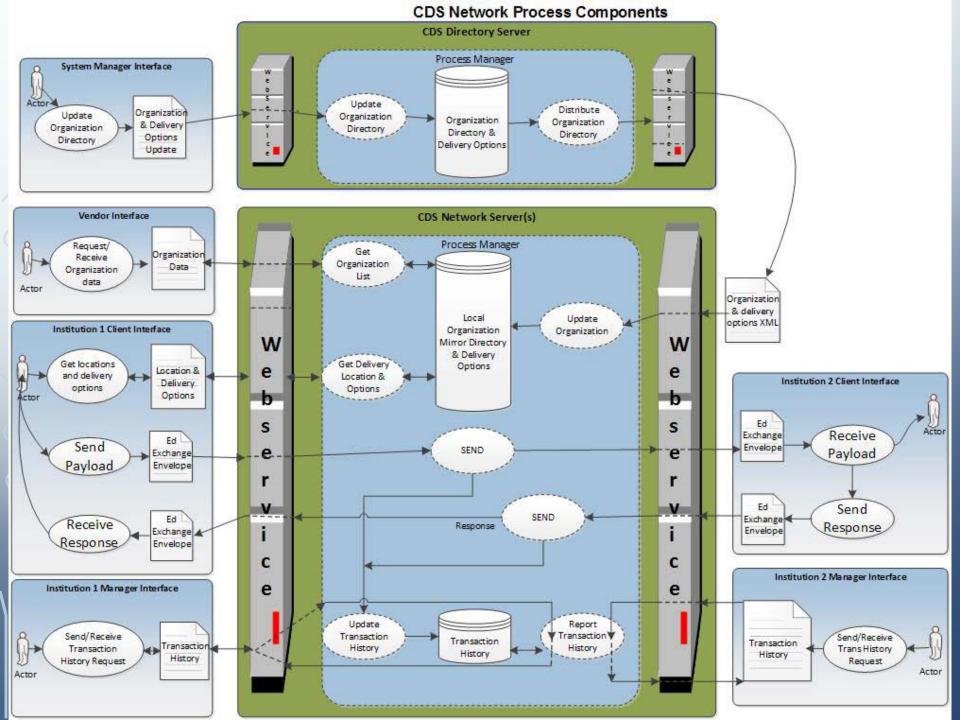
Technical – retaining development resources

EDEXCHANGE

- The Apereo Foundation was formed by the merger of Jasig and the Sakai Foundation in late December 2012. Sakai and Jasig had been pioneers in the production and adoption of open source software for higher education for over ten years. Apereo takes this work further, providing a more rational and improved organisational framework for a range of projects and software communities serving higher education.
- The core mission of the Foundation to "assist and facilitate educational organizations which collaborate to foster, develop, and sustain open technologies and innovation to support learning, teaching, and research" is amplified in the value of a common foundation page available from this site, and supported by a structured incubation process

EDEXCHANGE NETWORK





ACTIVITY

- Biweekly meetings with steady progress
- Functional Specifications are basically complete for:
- Network Server member transaction server
- Directory Server master for organization directory and delivery options
- XML Functionality Request/Response
 - EDexchange Envelope
 - Organizations
 - Delivery Options
 - Transaction History
- Reviewed Open Source Consortiums
 - Have submitted Incubation Proposal Application with Apereo, formally
 Jasig and Sakai

SPECIFICS

- Language Java
- Framework Apache CXF Web Services; Spring
- Deployment target Tomcat
- Security Spring
- Persistence layer DataNucleus or Hibernate
- Database schema changes Liquibase
- Build system Maven
- Database MySQL
- Development Environment Eclipse (preference) or IntellinJ
- Source Control
 - GitHub Issue Tracking
- Documentation Wiki

THOUGHTS ABOUT NEW FEATURES

- Transcript Views with Articulation (via ASSIST)
- Secure Messaging
- File Exchange (Attachments to Transcripts)
- Support for PESC ePortfolio/Transcript Format

THOUGHTS