PROGRAM

EdEXCHANGE

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4.30pm – 5.30pm
EdEXCHANGE

- What is EdEXCHANGE?
- What is a directory server?
- Use of EdExchange – California Community Colleges & Parchment
- Next level and what to expect
A Quick History

- Common Data Services Task Force
- Proposed October 2011 by Tim Calhoun (California Community Colleges)
- Initial project, EdExchange
The Problem

- No consistent way to request & exchange documents between academic institutions
- Service provider exchange networks operate in isolation from one another
- Available legacy exchange built on legacy technology, storage of PII, and lacks confirmation of delivery
The EdExchange Solution

• Enables real-time open data exchange amongst academic institutions and their service providers
• Payload agnostic to support a multitude of documents, types of exchanges
• Community based solution based on standards, open source development
Directory Server

Purpose
• Secure repository of validated network endpoints servicing listed destinations

Functions
• Accept Delivery Options request
• Return Delivery Options report

Reference Implementation
• Java Server

Intended deployment
• To be operated by PESC
Network Server

Purpose
• Serve as an endpoint in the secure EdExchange network

Functions
• Lookup
• Send
• Receive

Reference Implementation
• Java Server

Intended Deployment
• Local to Vetted Institutions & Service Providers
How it Works

How do I send an electronic transcript to _________?

College/Service Provider A
Network Server

College/Service Provider B
Network Server

EdExchange Server Host
Directory Server
Backup Directory Server
How it Works

College A calls the EdExchange Directory Server with a Delivery Options Request
How it Works

Directory server responds with Delivery Options Report which contains validated network servers.
How it Works

Transcript placed in an “EdExchange Envelope” and delivered to appropriate Network Server
How it Works

Confirmation placed in "EdExchange Envelope" and returned to senders

Network Server

College/Service Provider A

Network Server

College/Service Provider B

Network Server
EdExchange

• **Secure** Avoiding file based technologies keeps exchange of data between the sender and receiver

• **Reliable** EdExchange standard assures confirmation of delivery is received

• **Fast** Peer to peer architecture provides for a direct connection

• **Payload Agnostic** Supporting a variety of document types and transactions
Steering Committee

Steering Committee members include:

- Tuan Anh Do, PESC Board of Directors
- Rajeev Arora, SVP Products, Parchment
- Mark Cohen, Product Manager, California Community Colleges
- Doug Falk, VP & CIO, National Student Clearinghouse
- Jim Kelly, Senior Director of Technology, ECE
- Monterey Sims, Director of Admissions & Evaluation, University of Phoenix
- Jack Weber, Executive VP, Credentials Solutions
- Michael Sessa, PESC President & CEO
Pilot - Launching now

- Designed to collect best practices and organizational process feedback
- Who is involved so far?
  - California Community Colleges Tech Center
  - Credentials Solutions
  - Educational Credentials Evaluators
  - National Student Clearinghouse
  - Parchment
  - University of Phoenix
Production – 2018

- PESC to operate EdExchange, with oversight provided by Exchange Steering Committee
- EdExchange standard being completed, documenting
  - Network server (reference installation available), and
  - Protocols for lookup and exchange
- Directory eligible to PESC members as
  - Super-Users (Service providers or systems representing institutions on EdExchange), or
  - Users (Institutions directly represented on EdExchange)