



PROGRAM

EdEXCHANGE

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Parchment

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Educational Credential Evaluators

4.30pm – 5.30pm



PROGRAM

EdEXCHANGE

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

EDEXCHANGE

A NEUTRAL DATA
EXCHANGE PLATFORM
ENABLING THE ELECTRONIC
EXCHANGE OF STANDARDS-
BASED DIGITAL DOCUMENTS
AND DATA BETWEEN
ACADEMIC INSTITUTIONS &
THEIR SERVICE PROVIDERS.

ACHIEVED THROUGH
AN OPEN WEB SERVICES
ARCHITECTURE & ASSOCIATED
STANDARDS.

DESIGNED AS A
PEER-TO-PEER NETWORK
PROMOTING SECURE, RELIABLE,
& DIRECT CONNECTIONS
BETWEEN INSTITUTIONS
WHILE AVOIDING FILE-BASED
TECHNOLOGY.

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

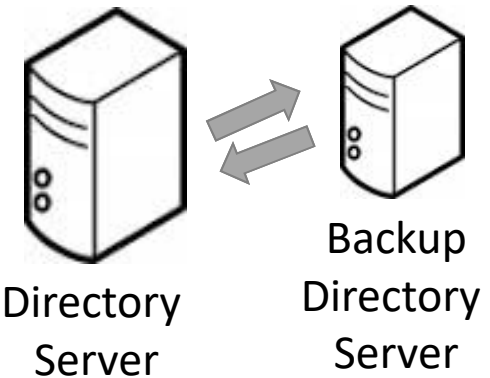


How it Works



How do I send an
electronic
transcript to
_____?

EdExchange Server Host



College/Service Provider A



Network Server

College/Service Provider B



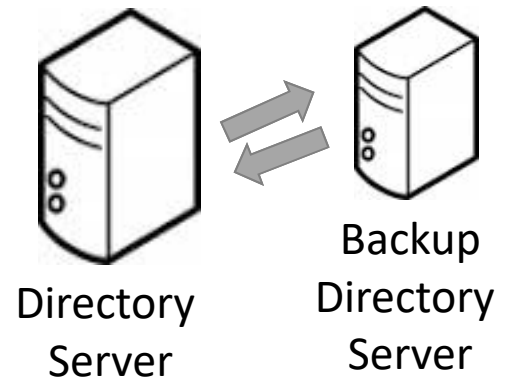
Network Server

How it Works



**College A calls the
EdExchange Directory
Server with a Delivery
Options Request**

EdExchange Server Host



College/Service Provider A



Network Server

College/Service Provider B



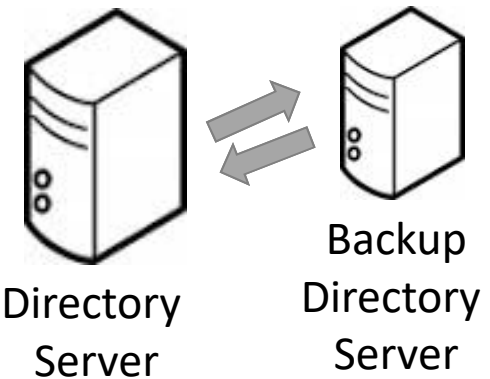
Network Server

How it Works



**Directory server responds
with Delivery Options
Report which contains
validated network servers**

EdExchange Server Host



College/Service Provider A



Network Server

College/Service Provider B



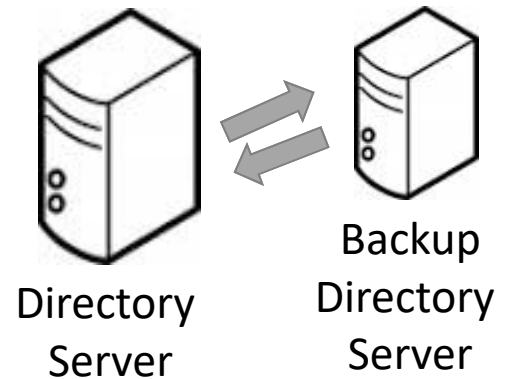
Network Server

How it Works



**Transcript placed in an
“EdExchange Envelope” and
delivered to appropriate
Network Server**

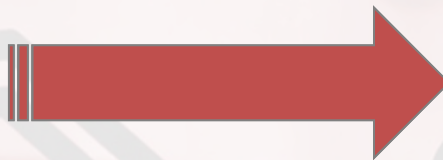
EdExchange Server Host



College/Service Provider A



Network Server



College/Service Provider B



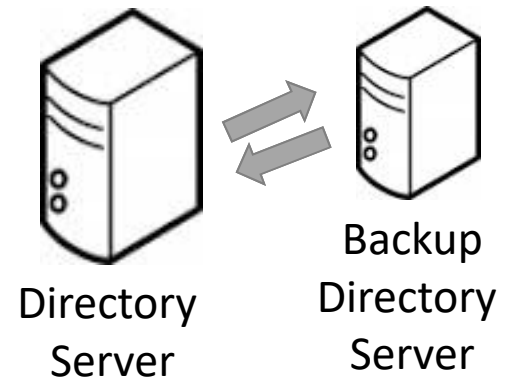
Network Server

How it Works



**Confirmation placed in
“EdExchange Envelope” and
returned to senders
Network Server**

EdExchange Server Host



College/Service Provider A

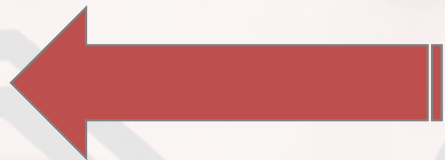


Network Server

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

Organization



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)