











THE PROGRAM

First Time Attendees

7.30am - 8.15am

Welcome to PESC!





THE PROGRAM

Wednesday

- General/Plenary Sessions All Day
- Annual Fall Reception

Thursday

- General/Plenary Sessions in Morning
- > Awards
- Breakouts in Afternoon
- > PESC Member Meeting

Friday

Breakouts in the Morning





Michael D. Sessa, President & CEO, PESC

"Never doubt that a small group of thoughtful, committed, citizens can change the world. Indeed, it is the only thing that ever has."

— Margaret Mead





Introductions

Introduce Yourselves

- Your Name
- Where You Are From
- What You Do





What is PESC?

Academic Credentialing & Experiential Learning

Change Control Board (CCB)

Seal of Approval Board (SAB)

Canadian PESC User Group (CanPESC)

EdExchange (CDS)
User Group

Technical Advisory
Board (TAB)

Global Education Code (GEO) Workgroup

Education Record User Group (ERUG)

PESC Board of Directors

PESC APPROVED STANDARDS

PESC MEMBERS





PESC APPROVED STANDARDS

are available openly and free of charge, for the PK20 education community, a cornerstone principle of PESC, its Mission and Membership.

PESC APPROVED STANDARDS

are workgroup developed, approved, ratified, and maintained through a transparent, open, rigorous community-based collaborative process, including a formal public notification when development initiates, and a formal public comment period all governed by PESC Members.

PESC APPROVED STANDARDS

are used, implemented, adopted and integrated in applications, products and services; support a business process or transaction, and; can be implemented or used one independently from another.

PESC TECHNOLOGY

PESC Technology is community-sourced and driven by PESC serving as an incubator to pilot and launch data standards using an open, transparent and collaborative process; and serving as a data standards-development and data standards-setting body governing resource mapping and maintenance of education eco-system schemas, taxonomies and shared code sets in various technologies (EDI, XML, PDF, JSON, etc.).

ACADEMIC COLLEGE TRANSCRIPT

ACADEMIC EPORTFOLIO

ACADEMIC HIGH SCHOOL TRANSCRIPT

ACADEMIC RECORD

ADMISSIONS APPLICATION

COMMON CREDENTIAL

CORE MAIN

DATA TRANSPORT

EDI

EDUCATION COURSE INVENTORY

EDUCATION TEST SCORE REPORTING

FUNCTIONAL ACKNOWLEDGMENT

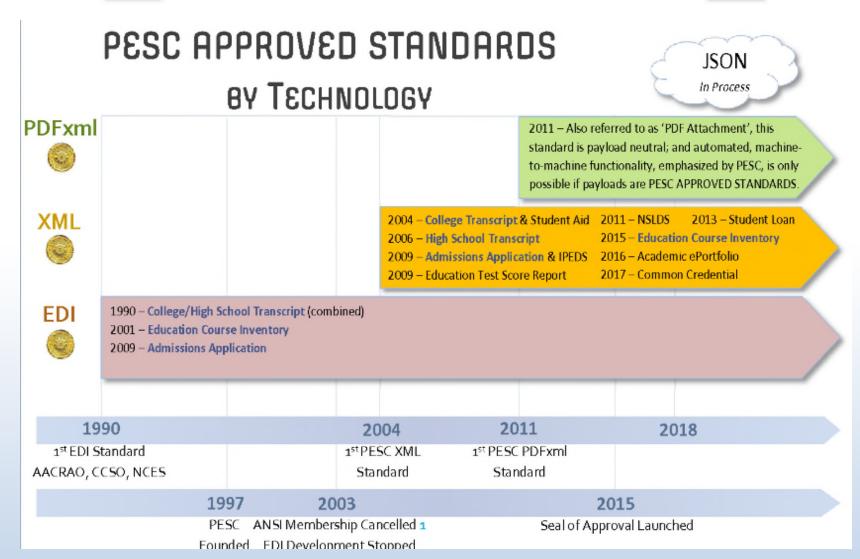
PDF ATTACHMENT

REQUEST - RESPONSE

STUDENT AID





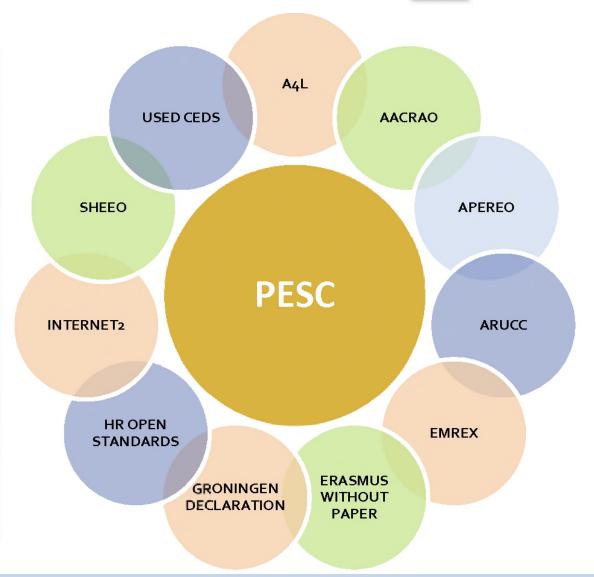






PESC Partnership and Affiliations

- Access 4 Learning (PK12)
- American Association of Collegiate Registrars and Admissions Officers
- APEREO (Open Source)
- Association of Registrars of the Universities and Colleges of Canada
- EMREX (Europe)
- Erasmus Without Paper (Europe)
- Groningen Declaration Network
- HR Open Standards
- Internet2
- State Higher Education Executive Officers
- U.S. Department of Education's Common Education Data Standards Initiative



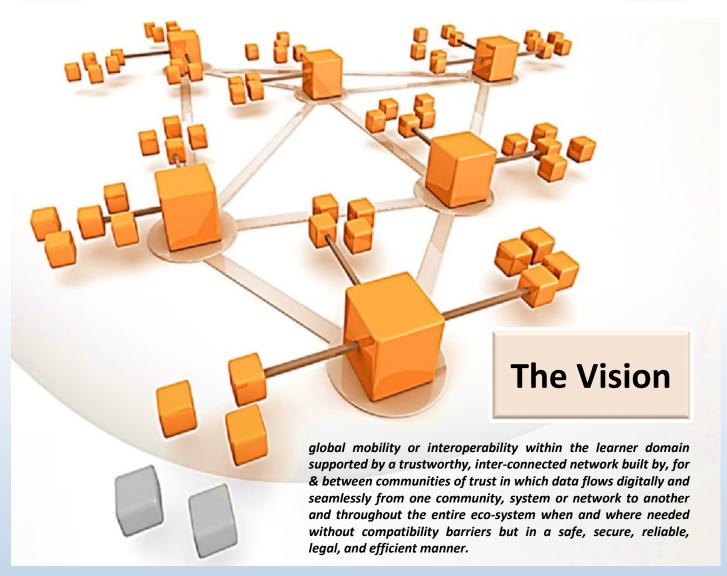












ADVANCING STUDENT MOBILITY IN A DIGITAL WORLD



FALL 2017 DATA SUMMIT



A SPECIAL MESSAGE FROM PESC PRESIDENT & CEO

MICHAEL D. SESSA



What started out as a community meeting with 30 leading institutions, associations and the US Department of Education to address the shared and growing needs for centralized management of standardization, development, maintenance and training, has become the nearly implemented and farreaching organization PESC.

IN ZD YEARS
PESC Approved Standards now currently implemented across the United States of America and Canada for admissions, registrar and financial ad communities serving tensof millions of students each year, are now being backer at by leaders from around the world.

FOR 20 YEARS PESC's influence and power are fueled by its solid sponsor, member and volunteer efforts. Our founding, comerstone principle of open, transparent community-based collaboration serves as our platform enabling innovation, ingenuity & ultimately interoperable digitalization across the education domain.

20th YEAR SPONSORSHIP.

PESC and the education community a special commitment by your organization that exemplifies and showcases what we are doing together is working and should continue.

PESC's 20th Year Anniversary Celebration

Takes place at the Full 2017 Data Summit in Toronto.

Phase continue to Jorge with PESC along this strategic path —
we need your support to make the next 20 years as seccessful!

20* YEAR ANNIVERSARY SPONSORSHIP with DIAMOND, GOLD & SILVER LEVELS Is POSTED at

WWW.PESC.ORE









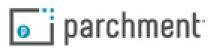






















ANNUAL FALL RECEPTION | WEDNESDAY OCTOBER 25, 2017 | 6pm

1250 Connecticut Ave NW Suite 200 Washington, D.C. 20036

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+1,202,261,6517.1



www.PESC.org info@PESC.org facebook.com/PESCupdates rwitter.com/PESCupestes





Save the Date!



find us on facebook.

follow us twitter





What to Expect?







What to Expect?

- > Lots of information
- May be overwhelming
- ➤ Interactive sessions: Get involved by participating with delegates & presenters
- > Feel free to ask questions





About CanPESC: Relationships and National Projects

- > Membership:
 - Across Canada
- > Relationships:
 - > CanPESC, PESC & ARUCC
- National Projects:
 - > BC to Ontario
 - CanPESC Institutional Codes Survey





About CanPESC: Collaborations

- > National Collaborations:
 - > ARUCC Groningen Student Mobility Task Force
 - > ARUCC PCCAT Transcript & Transfer Guide
- > PESC Groups:
 - **➢** GEO Code
 - > ERUG





More CanPESC Information

Contacts:

- > Leisa Wellsman, Co-Chair (Iwellsman@conestogac.on.ca)
- Cathy van Soest, Co-Chair (cathy@educationplannerbc.ca)
- http://www.pesc.org/canadian-pesc-user-group.html

ADVANCING STUDENT MOBILITY IN A DIGITAL WORLD



FALL 2017 DATA SUMMIT



CANADIAN PESC USER GROUP



AN OPEN, COLLABORATIVE GROUP
OF CANADIAN STAKEHOLDERS THAT ENSURES
PESC'S MISSION AND ALL PESC DELIVERABLES, INCLUDING
THE DEVELOPMENT AND RELEASE OF PESC APPROVED STANDARDS,
SUPPORTS AND INCORPORATES THE NEEDS AND INTERESTS
OF CANADIAN STUDENTS, INSTITUTIONS AND
CANADIAN-BASED STAKEHOLDERS



- CanPESC was formed in Fall 2011 to ensure that PESC's mission and deliverables support and include Canadian interests and needs, as well as to provide a Canadian voice within PESC.
- ➤ **CanPESC** is recognized as a unifier in the mission toward digitalization.
- ➤ CanPESC includes participation from almost every province and territory in Canada, many of whom are in this room.
- ➤ CanPESC Member Recognition: We are application service and trading hub leaders, IT experts, registrars, vendors and service providers
- > Join PESC and Join CanPESC!





Thank You!

Welcome!

We hope that the program we have put together for the next two and a half days will intrigue you, excite you, educate you, and inspire you...





PROGRAM

Welcome & Introductions

8.30am - 9.00am

Welcome to PESC!





PROGRAM

Kathleen Massey
University of Lethbridge
Herman de Leeuw
Groningen Declaration Network

9.00am - 10.30am





PROGRAM

Romesh Vadivel McGill University Ricardo Torres National Student Clearinghouse

11.00am - Noon





PROGRAM

Lunch

Noon – 1.30pm





PROGRAM

Chris Jagers
Learning Machine
Joellen Shendy
University of Maryland University College

1.30pm - 3.00pm





PROGRAM

Simone Ravaioli

Digitary

Rajeev Arora

Parchment

Matt Bemis

University of Southern California

James Kelly

Educational Credential Evaluators

3.30pm - 5.30pm





PROGRAM

Diploma Supplement

Simone Ravaioli Digitary

3.30pm - 4.00pm





PROGRAM

Diploma Supplement

- What is the diploma supplement, what's its history and why is it needed?
- When is the diploma supplement being implemented and where?
- What are the impacts of the diploma supplement regionally and worldwide?
- What's next?





PROGRAM

PESC Global Education Organization (GEO) Code

Rajeev Arora

Parchment

Matt Bemis

University of Southern California

James Kelly

Educational Credential Evaluators

4.00pm - 4.30pm





PROGRAM

PESC Global Education Organization (GEO) Code

- What is GEO Code?
- Proof of Concept
- Use of GEO Code USC Pilot
- How to Participate

GLOBAL EDUCATION ORGANIZATION CODE



GEO CODE

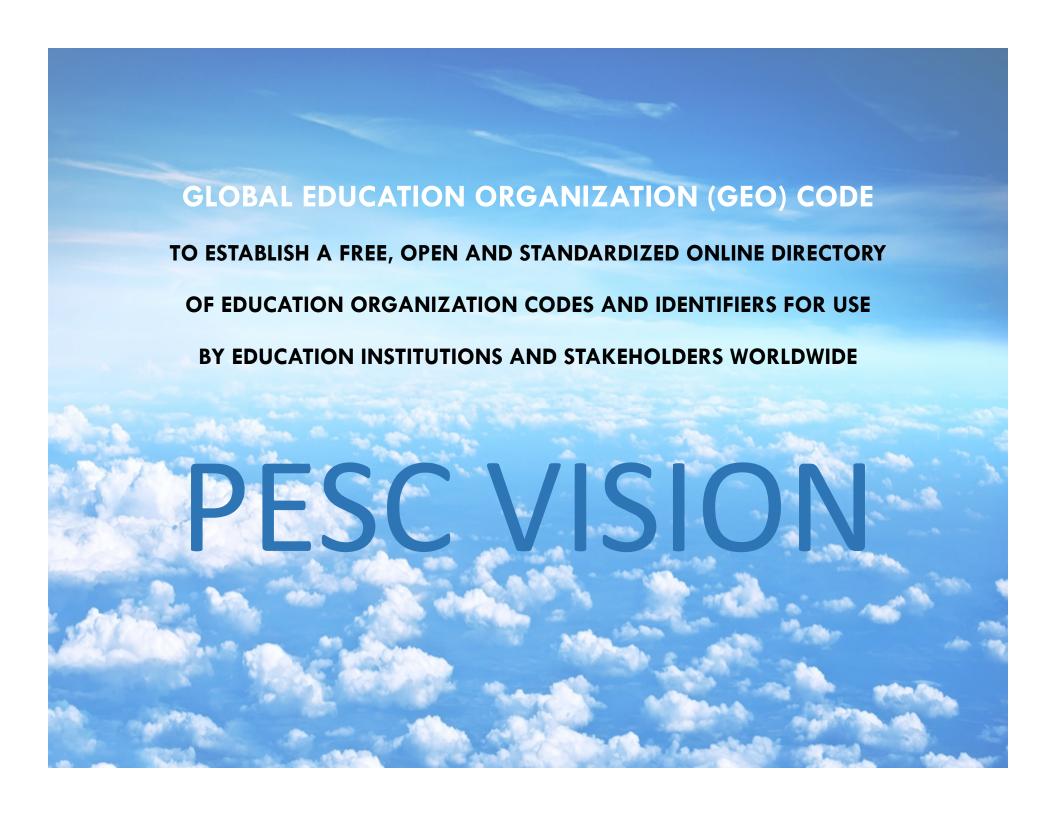
A FREE, OPEN AND STANDARDIZED

ONLINE DIRECTORY OF

INSTITUTION CODES & IDENTIFIERS

FOR USE BY

EDUCATION INSTITUTIONS & STAKEHOLDERS WORLDWIDE





- > HOSTED AND MANAGED UNDER PESC
- > OFFER SERVICE TO THE EDUCATION COMMUNITY FREE OF CHARGE
- > CROSSWALK/MAP BETWEEN GLOBAL CODES & NATIVE INSTITUTION CODES
- > PARTNER WITH GRONINGEN DECLARATION NETWORK & AACRAO

THE PLAN



> TWO (2) DIGIT ISO COUNTRY CODE

+

> FIVE (5) DIGIT ALPHANUMERIC CODE

PROOF OF CONCEPT

COUNTRIES INDEXED AND LISTED

- > BRAZIL
- > CANADA
- > CHINA
- > FRANCE
- > INDIA

- > ANTARCTICA > NEW ZEALAND
- > AUSTRALIA > POLAND
 - > PEOPLES' REPUBLIC OF CHINA, **PROVINCE OF TAIWAN**
 - > UK
 - > USA

PROOF OF CONCEPT

GUIDING PRINCIPLES

- 1. PROVIDE A UNIQUE INDEX VALUE
- 2. GEO CODE: (2) DIGIT ISO COUNTRY CODE + (5) DIGIT ALPHANUMERIC CODE
- 3. MINIMUM REQUIREMENTS: NAME AND LOCATION
- 4. STATUS OF ACTIVE OR INACTIVE
- 5. PROCESS FOR ADDITIONS AND EDITS
- 6. NO IMPLIED VALIDITY, ACCREDITATION OR OFFICAL STATUS

PROOF OF CONCEPT



- 7. NO REUSE OF GEO CODES
- 8. INCLUDE DIPLOMA MILLS*
- 9. DATA SOURCES & WIKIPEDIA
- 10. WEB SERVICE/SEARCH ENHANCEMENTS PLANNED
- 11. GEO CODE TO BE ADDED TO PESC APPROVED STANDARDS
- 12. 5-YEAR ROLLING REVIEW/MAINTENANCE PLANNED

PROOF OF CONCEPT

- > IMPROVED DATA QUALITY AND INTEGRITY
- > DECREASED RISK OF FRAUD AND ABUSE
- > FASTER PROCESSING/DELIVERY OF STUDENT DATA
- > FREE SERVICE BASED ON OPEN ARCHITECTURE
- > CAN BE RECOGNIZED UNIVERSALLY (by institutions, vendors, etc.)
- > INSTITUTIONS & ORGANIZATIONS ALREADY COMMITTED

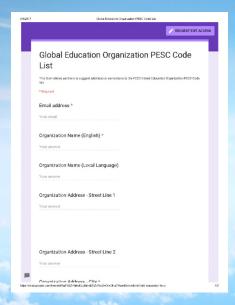
BENEFITS

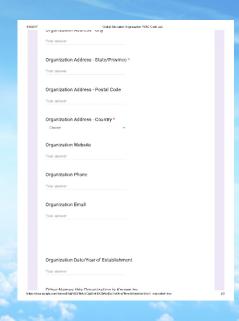
UNIVERSITY OF SOUTHERN CALIFORNIA – A Case Study – the GEO code and its integration with EDI and USC

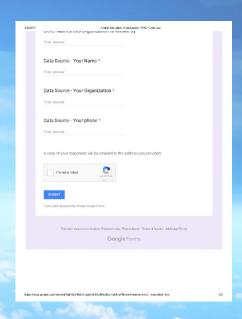
- Out of the 1300 codes provided by USC to IERF, currently more than 700 have been reindexed to use the GEO codes.
- More than 2700 EDI transactions will be machine processed this year, with the majority coming from schools with the GEO code index.
- IERF has utilized the countries which have been indexed to convert their internal indices for inclusion in their EDI transmissions
- The pilot has also revealed the need for agencies and institutions to report omissions and corrections to the GEO code index
- The Pilot demonstrates a working solution for EDX trading partners to exchange data based on mutually agreed upon index values that are the GEO code.











ADDITIONS AND CORRECTIONS



- > PARTNERSHIP WITH AACRAO & GRONINGEN DECLARATION NETWORK
- > QUARTERLY CONFERENCE CALL MEETING @ FALL 2017 DATA SUMMIT
- > PESC MEMBER STEERING COMMITTEE
- **▶ PESC WEBSITE WWW.PESC.ORG/GEO-CODE**

GOVERNANCE





PROGRAM

EdEXCHANGE

Rajeev Arora

Parchment

James Kelly

Educational Credential Evaluators

4.30pm - 5.30pm

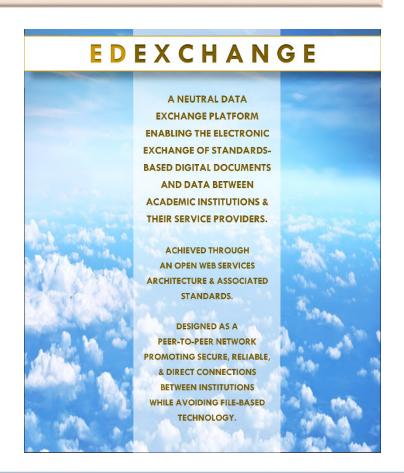




PROGRAM

EdEXCHANGE

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



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 <u>validated</u> network endpoints servicing listed <u>destinations</u>

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

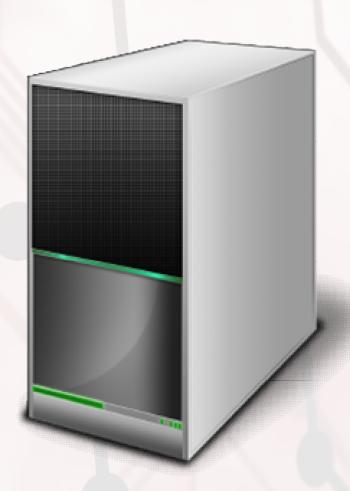
- Lookup
- Send
- Receive

Reference Implementation

Java Server

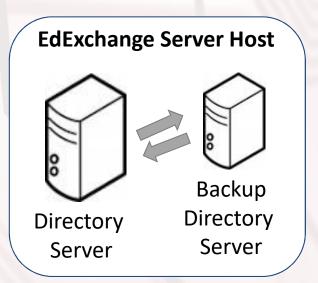
Intended Deployment

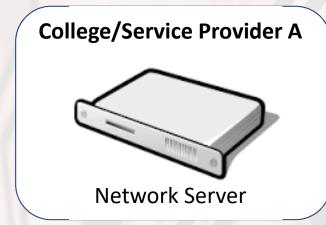
 Local to Vetted Institutions & Service Providers

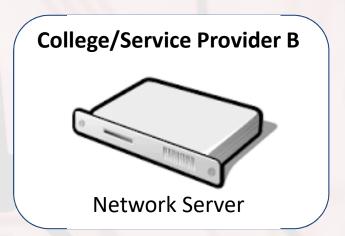




How do I send an electronic transcript to

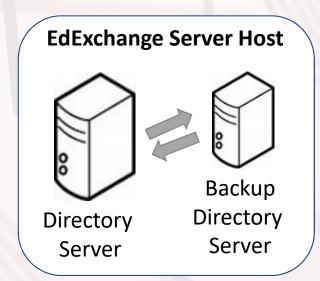


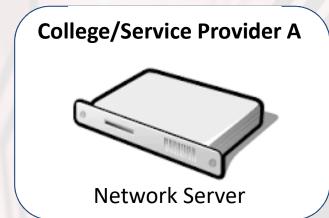


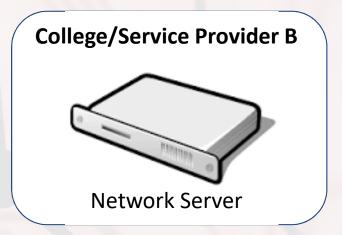




College A calls the EdExchange Directory Server with a Delivery Options Request

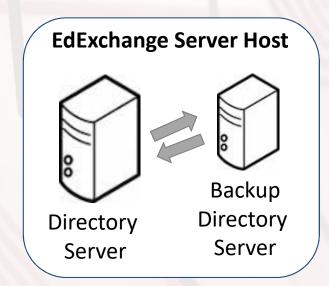


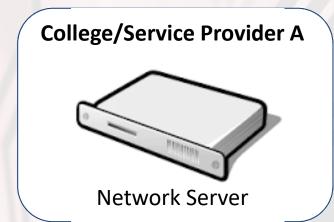


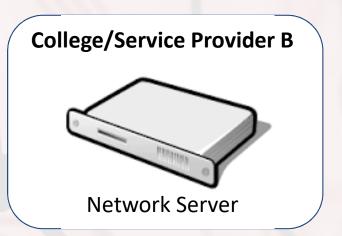




Directory server responds with Delivery Options Report which contains validated network servers

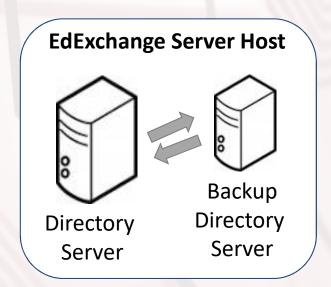


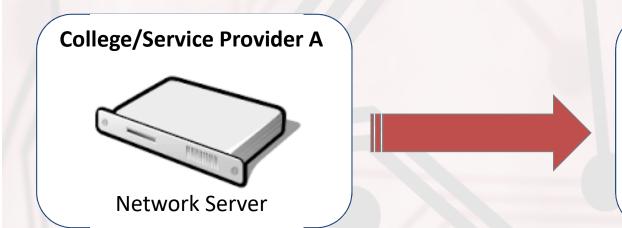


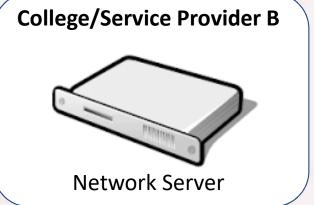




Transcript placed in an "EdExchange Envelope" and delivered to appropriate Network Server

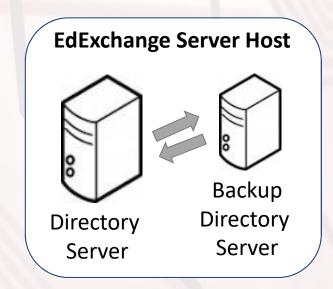


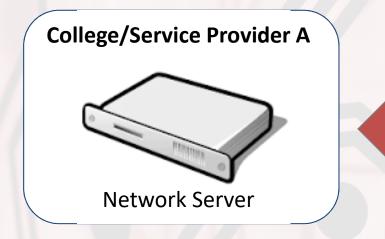


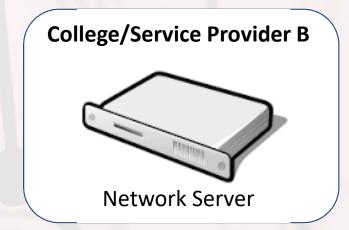




Confirmation placed in "EdExchange Envelope" and returned to senders Network Server







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)





PROGRAM

Annual Fall Reception PESC 20th Year Anniversary

6.00pm - 7.00pm





PROGRAM

Dr. Rob Fleming
BCCAT
Phil Belanger
CATNB
Lia Quickert
ONCAT
Heidi Emami
McGill University
Michael Ringuette
CICIC, CMEC
8.30am - 10.30am





PROGRAM

Distinguished Service Award 2016 ARUCC

Charmain Hack Romesh Vadivel





CATHY VAN SOEST

CO-CHAIR - MANAGER | EDUCATIONPLANNERBC TRANSCRIPT SERVICES

LEISA WELLSMAN

CO-CHAIR - ASSOCIATE REGISTRAR | RECORDS, REGISTRATION & ENROLMENT REPORTING | CONESTOGA COLLEGE (FORMERLY MANAGER, APPLICANT SERVICES, OUAC)

BRIAN PATTON

MANAGER, APPLICATION SYSTEMS | OUAC - ONTARIO UNIVERSITIES' APPLICATION CENTRE

JOANNE DUKLAS

PRESIDENT | DUKLAS CORNERSTONE CONSULTING

RUTH BLADES

OPERATIONS MANAGER | NOVA SCOTIA COUNCIL ON ADMISSION & TRANSFER

SUSAN STEIN

EXECUTIVE DIRECTOR | ALBERTA POST-SECONDARY APPLICATION SYSTEM

ROMESH VADIVEL

ASSISTANT REGISTRAR & DIRECTOR | SERVICE POINT ENROLMENT SERVICES | MCGILL UNIVERSITY

JENNIFER KIM

DIRECTOR OF MEMBERSHIP SERVICES | PESC





PROGRAM

Herman de Leeuw
GDN
Dr. Rob Fleming
BCCAT
Michael Ringuette
CICIC, CMEC
Charmaine Hack
Ryerson University
11.00am - Noon





PROGRAM

Dr. Andrew Trnacek
Higher Education Services
Andy Dowling
Digitary

Noon – 1.30pm Lunch





PROGRAM

Breakouts

Thursday 1.30pm - 5.30pm Friday 8.30am - Noon





PROGRAM

PESC Member Meeting

Thursday 5.30pm - 6.30pm







Thank You!