

Today's Session Background PESC and PESC XML Canadian PESC User Group The Vision Canadian Transcript Exchange Network New Realities BC and Ontario Ontario intra-provincial exchange Ontario and Alberta On the Horizon New Brunswick How YOU can be involved



What is PESC XML?

- PESC XML standards have evolved from existing X.12 EDI standards
- Think of PESC XML standards in three parts:
 - 1) A transport based on XML
 - 2) Standard attributes for each data element (length, characteristics)
 - 3) Standard definition of content

Why use PESC XML Standards?

- Enhanced data quality
- Flexibility
- Enhanced data exchange capability
- Other benefits
 - (Near or) real-time processing and web services
 - Allow for attachments and extensions, which can be easily identified for use or ignored if desired
 - Better interaction with SIS and document management systems



A Grassroots Movement

- Began with four Canadian application services each determining standards are required for best practices
- Recognized the need for a Canadian presence within PESC
- Membership from all 10 provinces, including centralized application centres, universities, colleges, Ministries of Education, software vendors and government agencies

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Primary contact between PESC and ARUCC	
 PESC and ARUCC formalized their partnership in April 2013 with a MOU 	
 Meets the second Thursday of each month by teleconference 	
ShareFile repository – resources and documentation	
AR*CC PRINCE PESC	

The Vision Develop a Canadian Transcript Exchange Network Student-centric, HS & PS, using PESC XML standards Facilitate adding new trading partners Facilitate student mobility Improve data quality, security, integrity, accuracy and comprehensiveness The San Diego Decision: The four application services are best placed to lead the way Start small, share what we've learned with those who will follow later



BCcampus, Vancouver

- Uses IT to collaboratively connect expertise, programs and resources of all 26 B.C. postsecondary institutions
- Uses PESC standard for transcript exchange service with six institutions (so far)
- Facilitates TranscriptsBC Standards Reference Group for PESC XML data standards to:
 - Develop transcript data exchange solutions
 - Ensure alignment of print and electronic transcripts
 - Develop consistent PESC XML tag use
 - Develop common testing scenarios to facilitate implementation and PESC adoption sector-wide

The Ontario Universities' Application Centre (OUAC), Guelph

- Primarily manages centralized processing of student applications to Ontario's 20 universities
- Supports an EDI transcript hub for Ontario's universities
- Uses PESC XML High School Transcript and Acknowledgement since September 2013
- Supports PESC XML College Transcript & Acknowledgement using corresponding EDI ←→ XML crosswalks since January 2014

BCcampus + OUAC + Douglas College = First tangible interprovincial achievement in the Canadian Transcript Exchange Network! Phase 1 - Pitol (2 senders) Phase 2 - Additional senders Phase 3 - Bit directional ONTARIO 19 Universities Universities & BCcampus

How did we get there?

- Discussions started following the San Diego PESC Summit in May 2013
- Project Charter signed in October
- Deliverables:
 - A working transcript/acknowledgement exchange process between BCcampus and the OUAC, using web services and PESC XML
 - A Master Agreement to govern this and future collaborations
 - A Statement of Work for interprovincial postsecondary transcript exchange, including a steady-state Service Level Agreement
 - For the OUAC, a process to re-route transcripts to the appropriate Ontario receivers

How did we get there? (cont'd)

- 5 Project Team meetings,
- 8 Tech Team meetings,
- Many, many emails (no face-to-face meetings)
- And lots of testing..
- On January 23, 2014 Douglas College started sending transcripts in PESC XML to BCcampus for the OUAC to retrieve via web services and forward to Ontario universities

Project Outcomes

- Established value of using PESC XML
- Established use of web services between BC and Ontario
- Produced an overarching Master Agreement to govern the BCcampus and OUAC relationship and future collaborations
- Produced a project summary document to share with others
- Created a template for bringing on new B.C.-Ontario partners
- Shared our project resources on the BCcampus wiki and the User Group ShareFile respository



About ApplyAlberta

- ApplyAlberta 26 public post-secondary institutions; implemented in October 2009 using PESC XML
- Common application system for universities, colleges, and polytechnical institutions in Alberta
- Transcript transfers between post-secondary institutions in Alberta; high school transcript delivery from Ministry of Education
- More than 580,000 applications submitted
- Over 709,000 transcripts transferred
- Currently investigating requirements for high school transcript exchanges with other provinces

What ApplyAlberta and OCAS have achieved together

- Draft of a PESC Canadian High School Implementation Guide
 - Complements the existing PESC Implementation Guide
 - Makes recommendations for the Canadian sector
 - Will serve as a resource for future exchange partners
 - A living document
 - ApplyAlberta and OCAS plan to exchange high school transcripts in future

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About Ontario College Application Service (OCAS)

- Created by Ontario's 24 public Colleges of Applied Arts and Technology and Institutes of Technology and Advanced Learning in 1992
- Established as a not-for-profit
- Primary services are applications to college, data warehousing, marketing
- 3 million distinct visitors to our applicant website (ontariocolleges.ca) annually
- 200,000 applicants apply to over 500,000 college programs annually

About OCAS eTMS

- eTMS = Electronic Transcript Management SystemObjective:
- - Create one system for Ontario students to request secondary and postsecondary transcripts online
- and postsecondary transcripts online

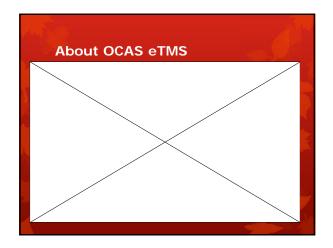
 Allow institutions to easily manage transcript requests by providing secure access to authorized individuals to monitor, distribute and receive transcripts.

 Since 2003, has operated an EDI transcript hub for Ontario's colleges, linked to the OUAC hub

 Supports an electronic high school transcript system for 53 school boards / 1,200 high schools

 Accommodates EDI, XML, PDF and DAT files

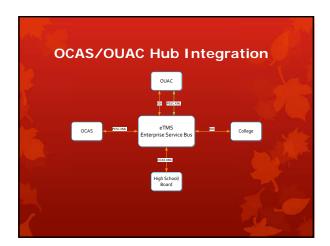
- Provides batch and real time delivery / processing
 Recognized with 2012 PESC Best Practice Award!





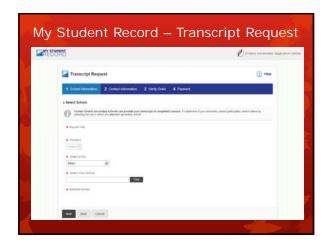


Extending eTMS to OUAC In 2013, OUAC partnered with OCAS to leverage eTMS capabilities for its non-direct-entry (105) applicants Branded as My Student Record High-level Schedule Project Kick-off on March 13 Requirements completed May 7 Announced June 25 Launched September 16 – just 7 months after kickoffl

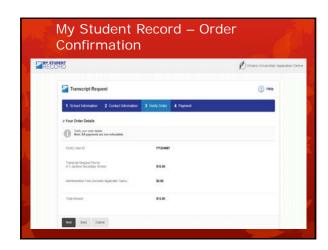


Project Approach Used an Agile/Iterative approach to gathering requirements and delivery Four main use cases: Request, Pay, Fulfill, Send Conducted intensive all-day requirements gathering workshops Weekly status meetings and reports Utilized Sharepoint to store and share project related materials including BRD, design, schedule, issues & risks Project involved collaboration from both teams













Preconditions...How the planets need to align

- We've been down this road before, haven't we?
- ...and we got lost!
- A previous attempt at establishing a transfer framework for the Maritimes didn't work. Why?
 - Several jurisdictions with a variety of legislative and regulatory environments (too much diversity can be a bad
 - Many different computer systems, incompatible computer languages (our computers didn't like each other)

 - No common student identifier...and, by the way, my code is better than yours!

The planets...how many are there now?

- What needs to line up:
 - A single regulatory framework helps!
 - - Thus fewer concerns related to protection of private information
 - One Education Act...one is enough!
 - Two provincial departments...not eight all reporting to a single political structure
 - A clear political will and government support!
 - The New Brunswick project is supported by the departments of Education and of Post-Secondary Education, Training and Labour with some funding. Funding is symbolic, but creates a link with the public service and provides credibility.
 - Oreation of collaborative structures that bring all parties together, makes any project of a provincial scope much easier. Provides a framework for inter-institutional initiatives. (NBCAT, Council of University and College Presidents, etc.)

...more planets

- What needs to line up, still:
 - Biting off what we can chew...starting small, with big

 - Transfer from schools to PSE first, then among PSE, then A Mari usque ad Mare!
 - - The DoE is in the process of implementing a central repository of high school transcripts
 - No need to connect directly to every school district or every school
 - The existence of Student Information Systems in all institutions, both secondary and postsecondary
 All colleges and universities use a well-known SIS (PowerSchool, Banner, DataTel, PeopleSoft)

...still more planets Need to index and link admissions requests to electronic transcripts though a common identifier The NBSN was implemented a few years ago and is already captured by PSE institutions as part of reporting to the MPHEC • A common reliable tested secure transfer protocol!!!! Helps to convince the Province of our capacity to mitigate risk of information leaks • XML as a universal code allows compatibility of data across all PESC standards are imbedded in all major Student Information Systems, which means that there is no need to build a transfer interface from scratch, but rather only to configure the existing modules within our systems to send and receive from partner institutions. Also, compatibility will remain through all system

upgrades.

A rogue planet? As with any other initiative, this one needs a champion! • Need to have an institution / official who will carry the ball Someone who believes in the project and will convince and motivate all others

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VV	hat we've done
	Defined the project scope and concept
	Identified a reporting mechanism (CPC – NBCAT)
	Lead within the DoE is at ADM level
	NBCAT Council has included the project in its list of priorities
	CPC included the project in its charter of actions for next three years
	Obtained government approval and funding
	Struck the Steering Committee
	Chaired by the head of DoE's Policy and Planning Division
	Includes representatives of Universities and Colleges (both bilingual)
	Agreed on broad outline of the implementation of the project and timeline
	Two working groups
	 One on policy matters (Protection of Privacy, Ownership of Data, Agreements between government and institutions, etc.)
	 One on technical matters (programming the transfer interfaces, implementing protocols, etc.)
	 Pilot project in the fall of 2015, with full deployment in the fall of 2016

...and what's left! O Drafting an official project implementation schedule Resolving all policy matters Resolving all technical matters Testing period Pilot project Full implementation

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	duction of work within the school system for the oduction and distribution of transcripts
• Re	duction of data entry work within PSE institutions
• Re	duction in the number of data entry errors
•	Errors can be costly both to students and to institutions
o Les	ss hassle for students to applying for admission to PSE
• Gre	eater capacity to collect and generate data

Other jurisdictions Nova Scotia has launched a similar project and is progressing rapidly Before long – Ontario, BC, Alberta, NB and NS will/may have a provincial system that can be linked to others though PESC protocols Newfoundland and Labrador, Saskatchewan, PEI, Manitoba, Québec? The dream: That in a few years all Canadian students will be able to transfer their transcripts from anywhere to everywhere with a few clicks. All that is needed are the champions to carry the ball forward!



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