PESC and SIFA

Partners and Collaborators for PK20 Common Data Standards

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DECEMBER 11, 2009

UNLOCKING THE POWER OF DATA™
**About PESC**

Founded August 18, 1997 at the National Center for Higher Education by higher education leaders as an open, centralized, neutral, non-profit governing body of community stakeholders to set and manage common data standards and promote interoperability across systems and sectors.

- AACRAO
- AASCU
- ACT
- CAUSE
- Citibank
- COHEAO
- College Board
- EFC
- ETS
- Harbinger
- KPMG
- LSAC
- NACAC
- NACUBO
- NASFAA
- NCHELP
- NCS
- Sallie Mae
- SLSA
- SCT
- USA Group
- U.S. Department of Education
ABOUT PESC

Mission

Through open and transparent community participation, PESC enables cost-effective connectivity between data systems to accelerate performance and service, to simplify data access and research, and to improve data quality along the higher education lifecycle.

Vision

PESC envisions national and international interoperability, that is a trustworthy, inter-connected environment built by and between communities of interest in which data flows seamlessly from one system to another and throughout the entire ecosystem when and where needed without compatibility barriers but in a safe, secure, reliable, and efficient manner.
## About PESC

### Goals of Mission & Vision

- **Accelerate Performance & Service**
  PESC develops and identifies tools for operational efficiencies and performance improvement in student data exchange from postsecondary preparedness and initial access of the student from high school into the college environment through successful completion of the education experience and into the workforce.

- **Reduce Cost**
  PESC promotes cost effectiveness of data alignment across disparate systems and across sectors that help mitigate costs for state and local governments and institutions struggling to keep up with the demands of technology and real-time data exchange while maintaining competitive tuition rates.

- **Lead Collaborative Development**
  PESC leads the establishment and facilitates the adoption and implementation of data exchange standards through direct community participation. Workgroups are continuously formed and follow specific policies and procedures, governed by the Steering Committee of the Standards Forum.

- **Set & Maintain Data Standards**
  PESC serves as a standards-setting & maintenance body with open, balanced policies & procedures. The Change Control Board (CCB) is the standing committee that reviews and approves standards.

- **Promote Best Practices**
  PESC highlights and supports successful business models for data standardization, access, and exchange. A competition is held each year and awards are provided each spring.

- **Link Public & Private Sectors**
  PESC maintains collaborative relationships with public, private, governmental, and international stakeholders in a balanced, neutral, and trusting environment.

- **Serve as Data Experts**
  PESC continuously improves its expertise and core competency in XML architecture and data modeling. The Technical Advisory Board (TAB) is the standing committee that provides technical expertise.
About PESC

Membership base

International public/private membership includes:

- colleges & universities
- institutional systems
- professional & commercial organizations
- data, software & service providers
- non-profit organizations & associations
- state & federal government agencies.
ABOUT PESC

- AACRAO
- AAMC
- AcademyOne
- Accenture
- ACT
- ACE
- Avow Systems
- CA Community College System
- CA School Information Services
- Central Connecticut State University
- College Board
- College Source
- Community College of the Air Force
- ConnectEdu
- Dartmouth College
- Datatel
- Docufide
- Educause
- Edustructures/Pearson
- EFC
- ELM Resources
- eScholar
- Florida International University
- Georgetown University
- George Washington University
- Georgia Board of Regents
- IDAPP
- IMS
- Indiana State University
- Iowa State University
- Jenzabar
- Kaplan University
- Key Bank
- Leepfrog
- LSAC
- Mapping Your Future
- Microsoft
- NASFAA
- NASLA
- NCHELP
- National Student Clearinghouse
- Nelnet
- NELA
- Ohio Board of Regents
- OCAS
- Oracle
- Oregon State University
- Pennsylvania College of Technology
- Prairie View A & M University
- Purdue University
- redLantern
- San Francisco State University
- SIF Association
- Smart Catalog
- Stanford University
- SunGard Higher Education
- Texas A & M University
- TG
- Unisolution
- University of Alaska System
- University of California at Berkeley
- University of Denver
- University of Idaho
- University of Illinois System
- University of Lethbridge
- University of Minnesota
- University of Mississippi
- University of North Carolina
- University of Northern Iowa
- University of Oklahoma
- University of Oregon
- University of Phoenix
- University of Southern Florida
- University of Texas at Austin
- University of Virginia
- USA Funds
- U.S. Department of Education
- U.S. General Services Administration
- Wachovia
- Washington State University
- XAP
**Current Activities**

**Workgroups**
- Academic Progress
- Course Inventory
- Functional Acknowledgement
- PDF Transcript
- Recruitment & Enrollment

**Standards**
- Admissions Application
- Education Test Score Reporting
- IPEDS
- Student Aid (Loans & Grants)
- Transcript (High School & College)

**User Groups**
- ERUG – Education Record User Group

**Task Forces**
- EA2 – Electronic Authentication and Authorization Task Force
- EdUnify

**Spring 2010 Data Summit**
- April 1-2, 2010 – Hyatt Regency
- ePortfolio Workgroup Launch
- Best Practices Awards

**Governance**
- Board of Directors
- Steering Committee
- Change Control Board
- Technical Advisory Board
- Seal of Approval Board
The Learning Curve

Evolution of PESC Enabling Interoperability

1. **Exploration**: Study issues, learn, and identify gaps through white papers
2. **Infrastructure**: Standards Forum for Education with sustainable governance, policies & procedures, community collaboration, XML Registry & Repository
3. **Product Launch**: 1st XML data standard – college transcript
4. **Role Established**: Emergence as a standards-setting body
5. **Market Response**: Extensive adoption and implementation
6. **Market Demand**: More XML data standards developed
7. **Market Support**: User Groups to maintain data standards
8. **Next Level**: Data transport to exchange data standards
9. **Next Level**: E-Authentication Task Force to foster access and exchange
10. **Next Level**: Federated exchange network to connect data systems
PESC Priorities

Technical
1. XML
2. SOAP
3. Shibboleth
4. SAML
5. Web Services
6. Service Oriented Architecture
7. Data Transport
8. Social Networking
9. Emerging technologies
10. Continued independence of one standard to another

Policy/Business
1. Bridging PK12 to Higher Ed
2. Bridging Higher Ed to Workforce
3. Longitudinal Common Data Standards
4. Continued Development of Postsecondary Common Data Standards
5. Adoption and Implementation
6. Infrastructure
PESC has begun development work in green shaded areas.

Model displays disparate college/university systems of which most interface with each other through proprietary formats.

Systems in yellow shaded areas have little, if any, standards.
# Factors for PESC and SIFA

**SIFA**

1. PK12 is primarily state-based
2. Many vendors
3. NCLB
4. Added complexity of student services (transportation, food, etc.)
5. International expansion
6. More structured hierarchy

1. Membership-based
2. Voluntary consensus-based standards
3. Open development process
4. Standards-setting body
5. Reduce costs, improve service, enhance data quality
6. Certification

**PESC**

1. Higher education is a mix of public and private
2. Few ERP vendors
3. Few SaaS vendors
4. Added complexity of student services (financial aid, housing, etc.)
5. International component
6. Less structured hierarchy

1. Membership-based
2. Voluntary consensus-based standards
3. Open development process
4. Standards-setting body
5. Reduce costs, improve service, enhance data quality
6. Seal of Approval
Factors for PESC and SIFA

Align PK20 Data Systems

PK – 12

SIFA – SIF Specification

SIFA Developed

Jointly Developed

PESC Developed

Higher Education

PESC - Standards

PESC and SIFA
Factors for PESC and SIFA

Working Together

2. PESC and SIFA speaking at each other’s meetings and events.
3. Cross-participation in development efforts – for PESC, the Education Record User Group.
5. Consistent participation in DQC.
7. Opportunities for collaboration (eg. Web services).
8. Joint Board activities.
Factors for PESC and SIFA

Challenges

1. Both sectors, PK12 and Postsecondary are heavily invested in current development initiatives.
2. Emerging needs are longitudinal data and bridging PK12 and postsecondary data.
3. Solutions must address maintenance and sustainability for the long term.
4. Maximize resources and efforts and avoid duplication.
5. Synchronize with other community-based efforts.
Factors for PESC and SIFA

NCES Common Data Standards

**POLICY/BUSINESS**
- CCSSO
- Forum
- NCES Handbooks

**IMPLEMENTATION**
- EdFacts
- SIFA
- ?

PK12
- DQC
- NEDM

PK20

Higher Ed
- SHEEO

PESC
- FSA/IPEDS
Factors for PESC and SIFA

PESC/SIFA PK20 Group

- Focuses on building standards not yet built to bridge PK12 and higher education.
- NCES' Common Data Standards Group monitors and identifies the need for standards and recommends priority and development.
- PESC/SIFA PK20 Group then builds that standard.
- All groups participate in promoting the use and adoption of the newly created standard and all standards.
- Structure ensures that policy and decision-makers are driving education.
- NCES Common Standards group morphs to a Steering Committee and an identifier of needed standards.
- New structure fills the gap of standards that bridge PK12 and higher education.
- Avoids the trap of "big-bang" approach, that is develop everything all at once at the same time.
FACTORS FOR PESC AND SIFA

Other Solutions

➢ ?
PESC and SIFA

Partners and Collaborators for PK20 Common Data Standards

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