XML Registry and Repository for the Education Community

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Agenda

- Objective
- XML Registry and Repository Overview
- Search Capabilities
- Reports
- Tools
- Contacts
- Demonstration
Objective

- This session provides an overview and demonstration of the XML Registry and Repository for the Education Community.
- After completion of this training, you should be able to find an XML component in the R&R, find the components’ metadata, identify what applications use the component, and export the component to a W3C XML schema.
The XML Registry and Repository provides a central access point for managing the following:

- Core Components
- Sector Libraries
- XML Message Specifications (i.e., XML Schemas)
- Enumeration Lists
- Associations between Components
  - Elements
  - Groups
  - Attributes
  - Attribute Groups
The XML Registry and Repository will support standardization of data definitions by enabling FSA and the Education Community to use the same Core Component data element definitions for data exchange.

The XML Registry and Repository will promote reuse of components through easy search and discovery of registered components.

The commonly defined Core Components will also help simplify the definition of new XML interfaces.
XML Registry and Repository Overview

- Custom-developed solution
- Web-based application
  - J2EE Application Server with Java Server Pages (JSPs) and Servlets
  - Oracle Database
- Structured on OASIS’s ebXML specifications for Registry and Repository v2.5
- Accepted by PESC and the standards community
The XML Registry and Repository (R&R) contains PESC as well as FSA XML components and schemas.

A new version of the XML R&R was released into production at the end of September 2010 including new features.

Components may be searched using associated metadata.

The applications (message standard schemas) that use specific component are also available on this site.
You may find components by
- Selecting by category
- Browsing by the first letter of the component name
- Searching on specific properties

Once a component is found, you may
- View detailed component properties
- View associations with other components
- View list values
- Create a custom schema from selected components
- Create a list of components that are used by a specific application with the option to export to Excel
- Export detailed component information into an Excel workbook (basic or complex components)
- Create a List of components shared by two applications with an option to export to Excel
Custom Schema Creation Procedure

- User selects highest level components to include in the new schema.
- The R&R creates a file that includes selected components and ALL DEPENDENT components.
- Selection of a single complex types can bring in hundreds of components into the schema.
- Developer then only needs to add the root element and any new types not in the repository to complete the application.
XML R&R Tools

- PESC TAB is developing a schema documentation definition that can be transformed into XML R&R data for batch import into the R&R
- PESC TAB is developing xslt and Excel tools that extract data from schemas to populate batch file import into the R&R
Future Goals for the XML Registry and Repository

- Fix defects found in the September 2010 release
- Define a clear process for transitioning PESC components to the R&R
- Determine the missing PESC components and load them into the R&R
- Complete requirements analysis for new features needed to support the Education Community
We appreciate your feedback and comments. We can be reached at:

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Demonstration of Features