PESC 2010 Data Summit – SIF Association Updates

April 2, 2010
Today’s Overview

- Association Update
- ContentCatalog
- Zone Services
- Web Services
- SIS Functional Profile
- Columbus Release and Beyond
Global Organization with over 3,200 members
- SIF Association UK
- SIF Association AU
- SIF Excellence Awards

Outstanding LEA Implementation Finalists
Mount Pleasant Independent School District, TX
Pasadena Independent School District, TX
Ramapo Central School District, NY

Outstanding SEA Implementation
Oklahoma Department of Education
Virginia Department of Education
Wyoming Department of Education

Individual Leadership Award
Joe Kitchens, Superintendent, Western Heights Public Schools, OK
James McBride, Superintendent, Wyoming Department of Education
Tracy Oliver, Sr. Manager of Data Operations, IL
Overview

✓ A way to search for content that resides in multiple content repositories and return one catalog of those resources.
✓ Eases searching
✓ Provides education specific metadata
✓ Requests for instructional content in multiple ways
✓ Aligns to learning standards
✓ Allows the teacher or instructional application to provide students with resources from multiple and formerly stove-piped applications
Content Catalog Choreography

Requests Sent, One per repository

Responses Returned, One per repository

LMS

ZIS

Vendor Repository

State Repository

District Repository

Vendor Repository
Zone Services
Overview

✓ A way in which customized operations, transactions and database views will be provided within a SIF Zone.
✓ Operations are verbs that describe the actions
✓ Models a process
✓ Stateful behavior
✓ Customized interface
✓ Multiple Zone Services may supply or change a given object
✓ Allows applications to interact at a deeper level
✓ Only the default Service Provider can publish Notifications for the Service
Student Record Exchange Service

• Enable Student Record Exchange choreography between trading partners and brokerages.
• Enable Student Record Exchange choreography in a way that can be accomplished with or without an intermediary brokerage.
• Provide an unambiguous method of implementing the “last mile” of student record exchange – specifically LEA-to-LEA student records transfer – whereby applications that are authoritative for student records must also be able to consume those records.
Web Services
Basic Service Types

Utility Service (Infrastructure) – ZIS Extension
Independent of Business data or processes
Ex: Security, Discovery, Logging, Event Filtering

Entity Service (Data View) – Object Provider Extension
Independent of Business processes
Maintain Business Entity (Ex: Student)
Operations are CRUD (Data Centric)

Task Service (Functional Behavior) - New
Encapsulate part of a Business Process (Action Centric)
Ex: Archive Student Records at EOY / SRE / Person Locator

=> Process (Ordered Combination of above)
Ex: EOY (Defines entire Business Process)
Horizontal Example
Vertical Example

<table>
<thead>
<tr>
<th>Zone Integration Server (ZIS)</th>
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<td>SIF Agent</td>
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<tr>
<td>Application</td>
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<td>WSDL</td>
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“SIF Zone”
SIS Functional Profile
Overview

- SIF Zone choreographies that accomplish a particular function or task without mandating the processing that takes place in any application.
- Expected behaviors of applications to accomplish a set of tasks within a SIF Zone while allowing each application to support that behavior using its own unique proprietary approach, and
- Clear guidance to the agent developers so their applications support the expected behaviors required to accomplish the functions or tasks necessary for the zones in which they participate.
Specifics

• Define the SIF functionality the SIS is expected to support. For each functional task, this will include:
  – event publication expectations,
  – event subscription expectations, and
  – default provider expectations (i.e. responding to requests)

• Define the standard expected behavior and set of data. For each functional task, this will include:
  – the SIF message choreography,
  – the data the SIS is expected to publish or provide for each message, and
  – the data to which the SIS is expected to subscribe for each message.
Columbus Release

- Intelligent zones
- Synchronization
- Separation of data model and infrastructure
- New year rollover
- Further teaching and learning and connecting administrative to instructional data and information
Beyond

- Creating a Framework for Individualized and Personalized Learning
- Defining the Digital Citizen
- Greater Out-of-the-Box Interoperability
- Tighter Certification Program
- Additional Zone Services
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