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**TECHNOLOGY & STANDARDS**



POSTSECONDARY  
Electronic Standards Council



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# XML Registry and Repository for the Education Community



FEDERAL  
STUDENT AID  
*We Help Put America Through School*

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# Agenda

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- ❑ Objective
- ❑ XML Registry and Repository Overview
- ❑ XML Registry Screen Shots
- ❑ Contacts



# Objective

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This session provides an overview of the XML Registry and Repository for the Education Community.



# XML Registry and Repository Overview

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- ❑ 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



# XML Registry and Repository Overview (continued)

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- ❑ The XML Registry and Repository will support standardization of data definitions by enabling FSA and the Education Community to use the same Core Components data element definitions for data exchange.
- ❑ The commonly defined Core Components will also help simplify the definition of new XML interfaces.



# XML Registry and Repository Overview

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- ❑ Custom-developed solution
- ❑ Web-based application
- ❑ Java Server Pages (JSPs) and Servlets
- ❑ Oracle Database
  - ❑ Structured on OASIS's ebXML specifications for Registry and Repository v2.5

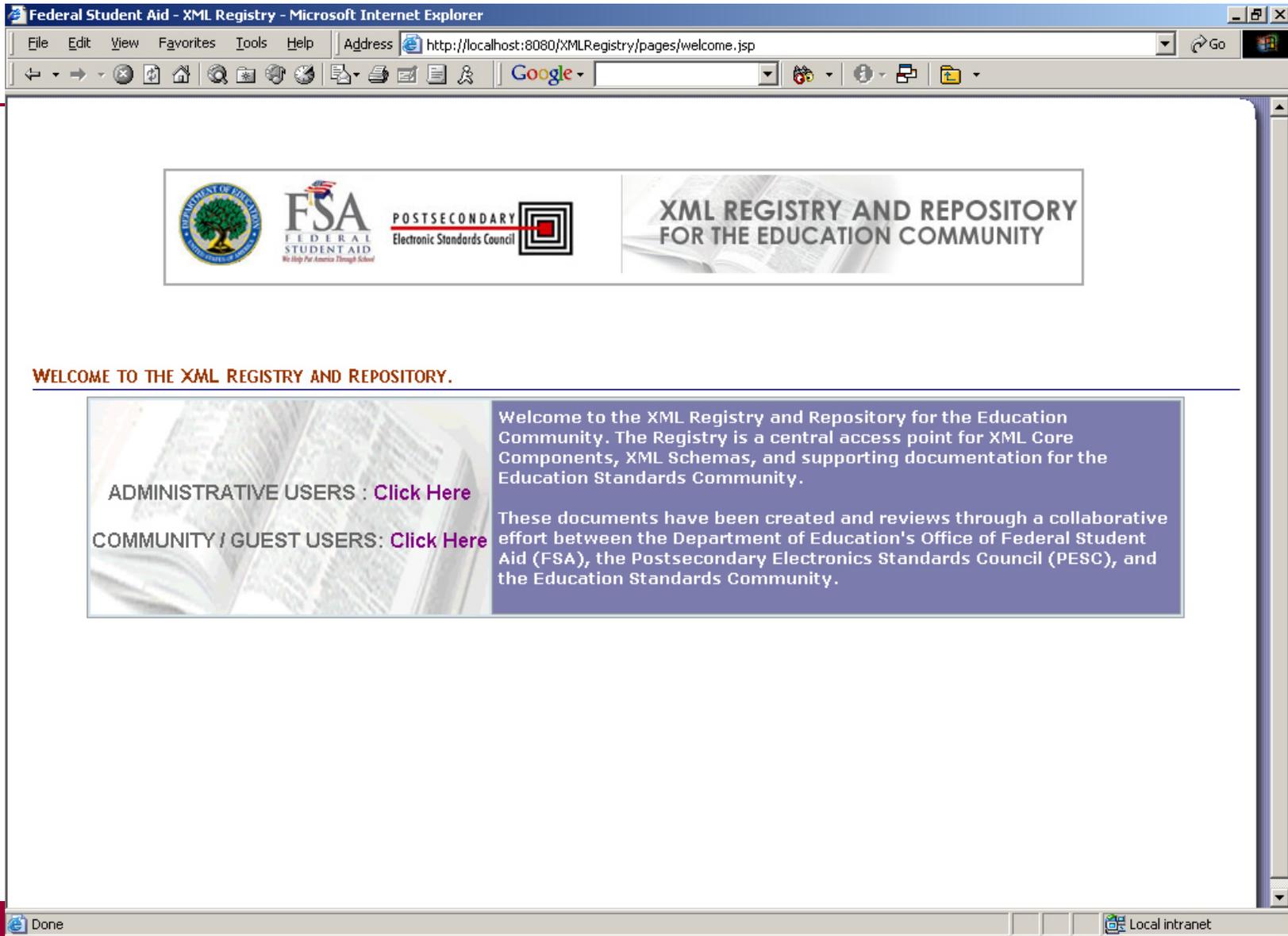
# XML Registry and Repository Overview

- ❑ Gifted to PESC and the standards community in December 2003



- ❑ Accepted by PESC and the standards community
- ❑ Updated with data from the PESC core components dictionary
- ❑ Reviewed at FSQ (Final due May 20)
- ❑ Scheduled for release as internet application May 31, 2004

# Main Page / Login



The screenshot shows a Microsoft Internet Explorer browser window with the title "Federal Student Aid - XML Registry - Microsoft Internet Explorer". The address bar displays "http://localhost:8080/XMLRegistry/pages/welcome.jsp". The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar contains navigation buttons (Back, Forward, Stop, Refresh, Home), a search engine dropdown set to Google, and other utility icons. The main content area features a header banner with logos for the Department of Education, FSA (Federal Student Aid), and the Postsecondary Electronic Standards Council (PESC). The banner text reads "XML REGISTRY AND REPOSITORY FOR THE EDUCATION COMMUNITY". Below the banner, a section titled "WELCOME TO THE XML REGISTRY AND REPOSITORY." contains two links: "ADMINISTRATIVE USERS : [Click Here](#)" and "COMMUNITY / GUEST USERS: [Click Here](#)". A blue text box on the right side of the page provides a welcome message and describes the registry as a central access point for XML Core Components, XML Schemas, and supporting documentation. It also mentions that the documents were created through a collaborative effort between the Department of Education's Office of Federal Student Aid (FSA), the Postsecondary Electronics Standards Council (PESC), and the Education Standards Community. The browser's status bar at the bottom shows "Done" and "Local intranet".

**Federal Student Aid - XML Registry - Microsoft Internet Explorer**  
Address: http://localhost:8080/XMLRegistry/pages/welcome.jsp

**XML REGISTRY AND REPOSITORY FOR THE EDUCATION COMMUNITY**

**WELCOME TO THE XML REGISTRY AND REPOSITORY.**

ADMINISTRATIVE USERS : [Click Here](#)

COMMUNITY / GUEST USERS: [Click Here](#)

Welcome to the XML Registry and Repository for the Education Community. The Registry is a central access point for XML Core Components, XML Schemas, and supporting documentation for the Education Standards Community.

These documents have been created and reviews through a collaborative effort between the Department of Education's Office of Federal Student Aid (FSA), the Postsecondary Electronics Standards Council (PESC), and the Education Standards Community.

Done Local intranet

# Main Landing Page

The screenshot shows a web browser window titled "Federal Student Aid - XML Registry - Microsoft Internet Explorer". The address bar shows "http://localhost:8080/XMLRegistry/Welcome.do". The page features a header with logos for the Department of Education, FSA (Federal Student Aid), and the Postsecondary Electronic Standards Council (PESC). The main content area includes a navigation menu on the left with links for "CLASSIFICATIONS", "CORE COMPONENTS", "SECTOR LIBRARIES", "MESSAGE SPECIFICATIONS", and "SEARCH". The main text area contains a "WELCOME" section, a paragraph about the registry's purpose, a paragraph about the core components, and a section titled "Current Message Specifications" which includes a table of recent message specifications. At the bottom, there is a "Questions" section with contact information for the system administrator.

**CLASSIFICATIONS**  
**CORE COMPONENTS**  
**SECTOR LIBRARIES**  
**MESSAGE SPECIFICATIONS**  
**SEARCH**

**WELCOME**

Welcome to the XML Registry and Repository for the Education Community. The Registry is a central access point for XML Core Components, XML Schemas, and supporting documentation for the Education Standards Community.

The Core Components stored in the XML Registry and Repository have been created and reviewed through a collaborative effort between the Office of Federal Student Aid (FSA), Postsecondary Electronics Standards Council (PESC), and the Education Standards Community.

To navigate through the Registry, use the menu on the left hand side of the browser. Choose the link corresponding to the area you are interested in (i.e., Classifications, Core Components, Sector Libraries, Message Specifications, or Search).

**Current Message Specifications**

The following table lists the most recent versions of Message Specifications posted to the XML Registry. If you are interested in seeing these Message Specification definitions, you may follow the corresponding link below directly to the schema file.

Name	Version	Last Updated
<a href="#">ISIR</a>	0	Submitted
<a href="#">Common Record</a>	0	Submitted
<a href="#">Common Line</a>	0	Submitted
<a href="#">Academic Transcript</a>	0	Submitted
<a href="#">new schema</a>	0	Submitted
<a href="#">new schema</a>	0	Submitted
<a href="#">new schema</a>	0	Submitted
<a href="#">new schema2</a>	0	Submitted

**Questions**

For questions or to request an administrative account for the XML Registry and Repository please contact the system administrator by email at [XMLRegistry@ed.gov](mailto:XMLRegistry@ed.gov).

# Search Input Page

Federal Student Aid - XML Registry - Microsoft Internet Explorer  
Address: http://localhost:8080/XMLRegistry/Search.do

XML REGISTRY AND REPOSITORY FOR THE EDUCATION COMMUNITY

Registry Users Reports Info Log Out

CLASSIFICATIONS  
CORE COMPONENTS  
SECTOR LIBRARIES  
MESSAGE SPECIFICATIONS  
**SEARCH**

**SEARCH**

Please enter keyword(s) and select search criteria.

Search |

Search Text:

Search For: [Select All](#)

Core Components

Search Core Components for: [Select All](#)

<input checked="" type="checkbox"/> Name	<input checked="" type="checkbox"/> Description
<input checked="" type="checkbox"/> Tag Name	<input checked="" type="checkbox"/> Related Term
<input checked="" type="checkbox"/> Business Term	<input checked="" type="checkbox"/> Qualifier Representation Term
<input checked="" type="checkbox"/> Object Class Term	<input checked="" type="checkbox"/> Qualifier Object Class
<input checked="" type="checkbox"/> Property Term	<input checked="" type="checkbox"/> Qualifier Property Term

Enumerated Lists

Search Enumerated Lists for: [Select All](#)

Name

Sector Libraries

Search Sector Libraries for: [Select All](#)

Name  Description

Message Specifications

Search Message Specifications for: [Select All](#)

Name  Description

Local intranet

# Search Results Page

# Core Components List Page

Federal Student Aid - XML Registry - Microsoft Internet Explorer

Address: http://localhost:9080/XMLRegistry/CoreComponent.do

XML REGISTRY AND REPOSITORY FOR THE EDUCATION COMMUNITY

Registry Users Reports Info Log Out

**CLASSIFICATIONS**  
[CORE COMPONENTS](#)  
[SECTOR LIBRARIES](#)  
[MESSAGE SPECIFICATIONS](#)  
[SEARCH](#)

**FSA CORE COMPONENTS CLASSIFICATION SCHEME**

- Aid
  - DISBURSEMENTS
    - CORE COMPONENTS
    - ENUMERATED LISTS
  - LOANS AND GRANTS
    - CORE COMPONENTS
    - ENUMERATED LISTS
- DOCUMENT
  - CORE COMPONENTS
  - ENUMERATED LISTS
- ENTITY
  - ADDRESS AND CONTACT
    - CORE COMPONENTS
    - ENUMERATED LISTS
- FINANCIAL PARTNER

**CORE COMPONENTS IN THIS CLASSIFICATION**

Tag Name	Business Term
<a href="#">AddressAttentionLine</a>	Address Attention Line
<a href="#">AddressBeginDate</a>	Address Begin Date
<a href="#">AddressEndDate</a>	Address End Date
<a href="#">AddressFormat</a>	Address Format
<a href="#">AddressHousingStatusCode</a>	Address Housing Status Code
<a href="#">AddressLine</a>	Address Line
<a href="#">AddressUpdateDate</a>	Address Update Date
<a href="#">AddressValidDate</a>	Address Valid Date
<a href="#">AddressValidIndicator</a>	Address Valid Indicator
<a href="#">City</a>	City
<a href="#">CommonAddressDetails</a>	Common Address Details
<a href="#">CountryCode</a>	Country Code
<a href="#">DomesticAddress</a>	Domestic Address
<a href="#">DomesticAddressDetails</a>	Domestic Address Details

Done Local intranet

# Core Components Summary Page

**Federal Student Aid - XML Registry - Microsoft Internet Explorer**

Address: <http://localhost:9080/XMLRegistry/CoreComponent.do>

**XML REGISTRY AND REPOSITORY FOR THE EDUCATION COMMUNITY**

[Registry](#) | [Users](#) | [Reports](#) | [Info](#) | [Log Out](#)

**CLASSIFICATIONS**  
[CORE COMPONENTS](#)  
[SECTOR LIBRARIES](#)  
[MESSAGE SPECIFICATIONS](#)  
[SEARCH](#)

**FSA CORE COMPONENTS CLASSIFICATION SCHEME**

- Aid**
  - DISBURSEMENTS
    - CORE COMPONENTS
    - ENUMERATED LISTS
  - LOANS AND GRANTS
    - CORE COMPONENTS
    - ENUMERATED LISTS
- DOCUMENT**
  - CORE COMPONENTS
  - ENUMERATED LISTS
- ENTITY**
  - ADDRESS AND CONTACT
    - CORE COMPONENTS
    - ENUMERATED LISTS
- FINANCIAL PARTNER**

**CORE COMPONENT: ADDRESS POSTAL CODE**

[SUMMARY](#) | [BASE PROPERTIES](#) | [DETAILS](#) | [ASSOCIATIONS](#) | [RELATED MESSAGE SPECIFICATIONS](#) | [NOTES](#)

XML Tag Name:	PostalCode
Business Term:	Address Postal Code
Definition:	This basic component represents the postal code or Zip code portion of the address.
Related Terms:	Zip Code, ZIP
Version:	1.0.0
Status:	Submitted
Stability:	Static

# Core Components Base Properties Page

**Federal Student Aid - XML Registry - Microsoft Internet Explorer**

Address: <http://localhost:9080/XMLRegistry/CoreComponent.do>

**XML REGISTRY AND REPOSITORY FOR THE EDUCATION COMMUNITY**

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**CLASSIFICATIONS**

- [CORE COMPONENTS](#)
- [SECTOR LIBRARIES](#)
- [MESSAGE SPECIFICATIONS](#)
- [SEARCH](#)

**FSA CORE COMPONENTS CLASSIFICATION SCHEME**

- Aid**
  - DISBURSEMENTS
    - [CORE COMPONENTS](#)
    - [ENUMERATED LISTS](#)
  - LOANS AND GRANTS
    - [CORE COMPONENTS](#)
    - [ENUMERATED LISTS](#)
- DOCUMENT**
  - [CORE COMPONENTS](#)
  - [ENUMERATED LISTS](#)
- ENTITY**
  - ADDRESS AND CONTACT
    - [CORE COMPONENTS](#)
    - [ENUMERATED LISTS](#)
  - FINANCIAL PARTNER
    - [CORE COMPONENTS](#)
    - [ENUMERATED LISTS](#)

**CORE COMPONENT: ADDRESS POSTAL CODE**

[SUMMARY](#) | [BASE PROPERTIES](#) | [DETAILS](#) | [ASSOCIATIONS](#) | [RELATED MESSAGE SPECIFICATIONS](#) | [NOTES](#)

Business Term:	Address Postal Code				
Definition:	This basic component represents the postal code or Zip code portion of the address.				
Related Terms:	Zip Code, ZIP				
Classification:	/ Entity / Address and Contact /				
Namespace Identifier:	urn:us:gov:ed:fsa:entity:address:				
Version:	1.0.0				
Object:	<table border="1"> <tr> <td>Qualifier</td> <td>Object Class</td> </tr> <tr> <td></td> <td>Address</td> </tr> </table>	Qualifier	Object Class		Address
Qualifier	Object Class				
	Address				
Property:	<table border="1"> <tr> <td>Qualifier</td> <td>Property Term</td> </tr> <tr> <td></td> <td>Postal Code</td> </tr> </table>	Qualifier	Property Term		Postal Code
Qualifier	Property Term				
	Postal Code				
XML Data Type:	string				
Core Component Data Type:	TextType				
XML Tag Name:	PostalCode				

# Core Components Detail Properties Page

The screenshot shows a Microsoft Internet Explorer browser window displaying the 'Core Components Detail Properties Page' for 'PostalCodeType'. The browser's address bar shows the URL: `http://localhost:9080/XMLRegistry/CoreComponent.do`. The page has a navigation menu at the top with links for **SUMMARY**, **BASE PROPERTIES**, **DETAILS** (which is selected), **ASSOCIATIONS**, **RELATED MESSAGE SPECIFICATIONS**, and **NOTES**. On the left side, there is a sidebar with a tree view of 'FSA CORE COMPONENTS CLASSIFICATION ON SCHEME', including categories like 'Aid', 'DISBURSEMENTS', 'LOANS AND GRANTS', 'DOCUMENT', 'ENTITY', 'FINANCIAL PARTNER', 'IDENTIFICATION', and 'PARTICIPATION'. The main content area is divided into three sections: 'Facets', 'Supplementary Fields', and 'XML Schema Definition'. The 'Facets' section contains a table with columns 'Facet Type' and 'Facet Value'. The 'Supplementary Fields' section contains a table with columns 'Field Name' and 'Field Value'. The 'XML Schema Definition' section contains an XML code block defining the 'PostalCodeType' complex type.

Facet Type	Facet Value
length	
minLength	
maxLength	50
pattern	
enumeration	

Field Name	Field Value
xml:lang	
languageLocaleID	

```
<!-- ===== CORE COMPONENT: PostalCodeType ===== -->
<xs:complexType name="PostalCodeType">
  <xs:simpleContent>
    <xs:restriction base="TextType">
      <xs:maxLength value="50"/>
    </xs:restriction>
  </xs:simpleContent>
</xs:complexType>
```

# Core Components Associations Page

Federal Student Aid - XML Registry - Microsoft Internet Explorer

Address: http://localhost:9080/XMLRegistry/CoreComponent.do

XML REGISTRY AND REPOSITORY FOR THE EDUCATION COMMUNITY

Registry Users Reports Info Log Out

CLASSIFICATIONS  
[CORE COMPONENTS](#)  
 SECTOR LIBRARIES  
 MESSAGE SPECIFICATIONS  
 SEARCH

FSA CORE COMPONENTS CLASSIFICATION SCHEME

- Aid
  - DISBURSEMENTS
    - CORE COMPONENTS
    - ENUMERATED LISTS
  - LOANS AND GRANTS
    - CORE COMPONENTS
    - ENUMERATED LISTS
  - DOCUMENT
    - CORE COMPONENTS
    - ENUMERATED LISTS
  - ENTITY
    - ADDRESS AND CONTACT
      - CORE COMPONENTS
      - ENUMERATED LISTS
    - FINANCIAL BARRIERS

**CORE COMPONENT: ADDRESS POSTAL CODE**

SUMMARY | [BASE PROPERTIES](#) | [DETAILS](#) | [ASSOCIATIONS](#) | [RELATED MESSAGE SPECIFICATIONS](#) | [NOTES](#)

**Child Associations**

These are the child elements of this Core Component.

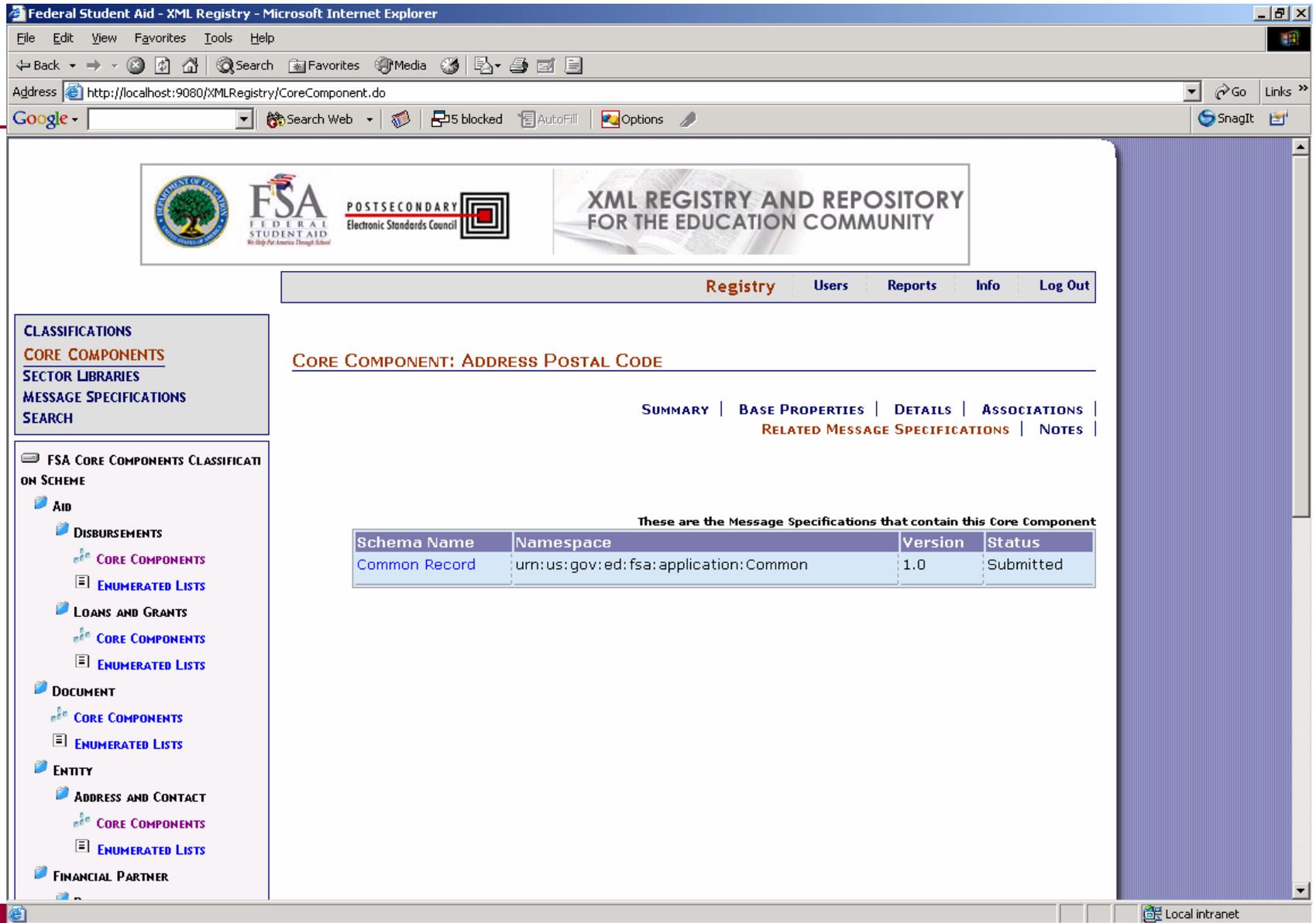
Associated Object	Business Term	Min	Max	Association Type
There are no child associations for this Core Component.				

**Parent Associations**

These are other Core Components that have this Core Component as a child element.

Associated Object	Business Term	Min	Max	Association Type
<a href="#">DomesticAddressDetails</a>	Domestic Address Details	1	1	ContainsCObject
<a href="#">InternationalAddressDetails</a>	International Address Details	0	1	ContainsCObject

# Core Components – Message Specifications Relationship Page



Federal Student Aid - XML Registry - Microsoft Internet Explorer

Address: http://localhost:9080/XMLRegistry/CoreComponent.do

XML REGISTRY AND REPOSITORY FOR THE EDUCATION COMMUNITY

Registry Users Reports Info Log Out

CLASSIFICATIONS  
CORE COMPONENTS  
SECTOR LIBRARIES  
MESSAGE SPECIFICATIONS  
SEARCH

FSA CORE COMPONENTS CLASSIFICATION SCHEME

- Aid
  - DISBURSEMENTS
    - CORE COMPONENTS
    - ENUMERATED LISTS
  - LOANS AND GRANTS
    - CORE COMPONENTS
    - ENUMERATED LISTS
  - DOCUMENT
    - CORE COMPONENTS
    - ENUMERATED LISTS
  - ENTITY
    - ADDRESS AND CONTACT
      - CORE COMPONENTS
      - ENUMERATED LISTS
  - FINANCIAL PARTNER

CORE COMPONENT: ADDRESS POSTAL CODE

SUMMARY | BASE PROPERTIES | DETAILS | ASSOCIATIONS | RELATED MESSAGE SPECIFICATIONS | NOTES

These are the Message Specifications that contain this Core Component

Schema Name	Namespace	Version	Status
Common Record	urn:us:gov:ed:fsa:application:Common	1.0	Submitted

Local intranet

# Message Specification Page View

**Federal Student Aid - XML Registry - Microsoft Internet Explorer**  
Address: [http://localhost:8080/XMLRegistry/pages/messagespecification/messagespec\\_view.jsp](http://localhost:8080/XMLRegistry/pages/messagespecification/messagespec_view.jsp)

**XML REGISTRY AND REPOSITORY FOR THE EDUCATION COMMUNITY**

[Registry](#) [Users](#) [Reports](#) [Info](#) [Log Out](#)

**CLASSIFICATIONS**  
**CORE COMPONENTS**  
**SECTOR LIBRARIES**  
**MESSAGE SPECIFICATIONS**  
**SEARCH**

**FSA MESSAGE SPECIFICATIONS**

- [Aid Application](#)
- [Aid Award](#)
- [Aid Awareness](#)
- [Institution Participation](#)
- [Servicing](#)

**MESSAGE SPECIFICATION: COMMON RECORD** [Download](#)

Name:	Common Record
Namespace Identifier:	urn:us:gov:ed:fsa:application:Common
User Version:	1.0
Expiration Date:	3/4/2004
Description:	a sample common record file
Status:	Submitted
Stability:	Static

**Related Core Components**

Tag Name	Business Term
<a href="#">EmailAddress</a>	Email Address
<a href="#">City</a>	City
<a href="#">CountryCode</a>	Country Code

# Core Components Notes Page

Address: http://localhost:9080/XMLRegistry/CoreComponent.do

Navigation: [Registry](#) | [Users](#) | [Reports](#) | [Info](#) | [Log Out](#)

CLASSIFICATIONS  
[CORE COMPONENTS](#)  
[SECTOR LIBRARIES](#)  
[MESSAGE SPECIFICATIONS](#)  
[SEARCH](#)

FSA CORE COMPONENTS CLASSIFICATION SCHEME

- Aid
  - DISBURSEMENTS
    - CORE COMPONENTS
    - ENUMERATED LISTS
  - LOANS AND GRANTS
    - CORE COMPONENTS
    - ENUMERATED LISTS
- DOCUMENT
  - CORE COMPONENTS
  - ENUMERATED LISTS
- ENTITY
  - ADDRESS AND CONTACT
    - CORE COMPONENTS
    - ENUMERATED LISTS
- FINANCIAL PARTNER
  - DEMOGRAPHICS
    - CORE COMPONENTS

CORE COMPONENT: ADDRESS POSTAL CODE

SUMMARY | [BASE PROPERTIES](#) | [DETAILS](#) | [ASSOCIATIONS](#) | [RELATED MESSAGE SPECIFICATIONS](#) | [NOTES](#)

New Note

Add Note |

Subject:

Comment:

Previous Notes

User	Date	Subject	Delete Note
taantee	Wed Apr 21 15:29:55 EDT 2004	<a href="#">Postal Code Format</a>	<a href="#">Delete</a>



# Contacts

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We appreciate your feedback and comments.  
We can be reached at:

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