CHAPTER 1

Using Financial Aid Web Services

Bundle 31
Added a new chapter: "Using Financial Aid Web Services".

This chapter discusses:

- Using the SFA_FINANCIAL_AID web service.
- SFA_FINANCIAL_AID service operations.
- Post installation troubleshooting.

Understanding Financial Aid Web Services

This chapter is designed to provide important information to customers who want to access and use Financial Aid Web Services.

Technical developers, consultants and, implementers should use this document to learn about the technologies used by the web service and to determine the scope of data that the web service can exchange between a self service user interface (that the academic institution may build) and the PeopleSoft Campus Solutions system. Business and functional analysts should use this document to understand how the web services function.

This chapter is intended for users who are familiar with:

- A tool or technology to build and deploy the user interface.
- PeopleCode.
- Web services concepts, mainly XML, SOAP, and WSDL.
- PeopleSoft Integration Broker .
- Campus Community 'Entity Registry' functionality.
- Campus Solutions Financial Aid functionality.

Financial Aid Web Service can be used by end user devices (such as a mobile phone or a tablet), enterprise applications or any other third party software that can interface through standards based means.

Financial Aid Web Service can be used by:

- Oracle presentation technologies (such as PORTAL, Application Development Framework [or ADF], and PeopleSoft components and pages).
- Oracle Middleware, such as Enterprise Service Bus and BPEL.
- Oracle Applications, such as Enterprise, EnterpriseOne, and E-Business Suite.
- Third-party presentation technologies.

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- Third-party middleware and applications.

Overview

Institutions have different needs, requirements and preferences for interacting with their students during the financial aid process. It is essential that the interaction between the student and institution is convenient, simple to use, and powerful for both the institution and the student. The User interface (UI) through which a student interacts with the institution can vary. For many campus audiences the interface of choice could be a range of current generation handheld devices (smart phone, tablets, blackberry, etc). However, options like conventional web browser based access (such as PeopleSoft Self Service Financial Aid) need to also be supported. In order to facilitate this flexibility a new web service has been delivered to support the Self Service Financial Aid process regardless of the user interface technology deployed at an institution.

The Financial Aid Web Service offers access to the Campus Solutions Financial Aid information through service operations.

Using the SFA_FINANCIAL_AID Web Service

The SFA_FINANCIAL_AID web service includes different service operations that allow an external user interface to access student financial aid information.

This section discusses:

- Entity Registry
- Description Language
- Service Operations
- Setting up the Web Service

Entity Registry

The SFA_FINANCIAL_AID web service uses the Entity Registry to provide the structure for returning student financial aid data. SFA_FINANCIAL_AID provides basic and work entities to represent Financial Aid student award data. These entities are not directly related to existing records.

Description Language

During setup, the system generates the Web Services Description Language (WSDL) for SFA_FINANCIAL_AID.

The following diagram lists the SFA_FINANCIAL_AID web service operations and their messages:

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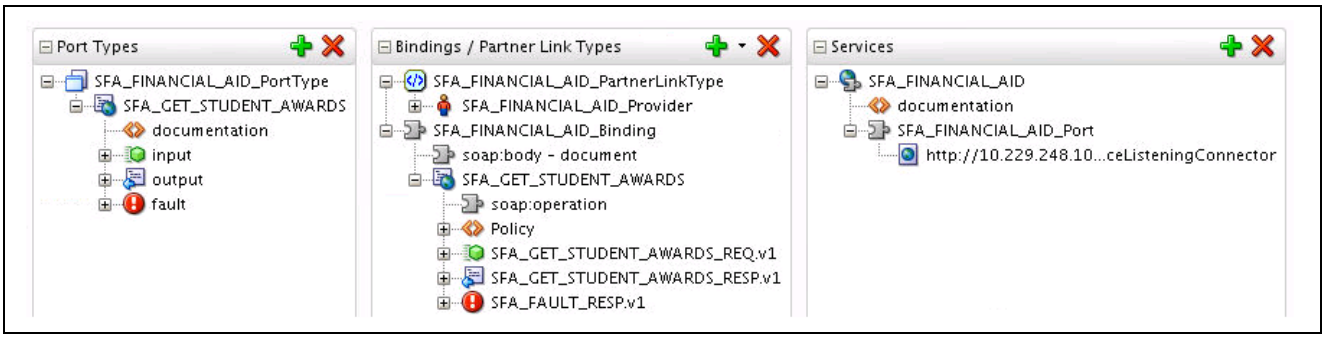

SFA_FINANCIAL_AID Web Service Operations and Messages

Service Operations

The SFA_FINANCIAL_AID web service provides the following SOAP and REST services that enable you to access student Campus Solutions Financial Aid information:

Service	Service Operation	Description
SFA_FINANCIAL_AID	SFA_GET_STUDENT_AWARDS	SOAP Service. Allows the student to view award information for an Institution and Aid Year.
SFA_FINANCIAL_AID_R	SFA_GET_STUDENT_AWARDS_R_POST	REST Service. Allows the student to view award information for an Institution and Aid Year.

The service operations use PeopleTools Integration Broker. Any user interface that is web-service enabled and complies with web service standards can access the service operations. The SFA_FINANCIAL_AID web service adheres to open web service standards that are currently supported in the latest release of PeopleTools. Before you develop your own user interface, it is recommended that you use a SOAP service tester to become familiar with how the web services process the student account data and user information. One way to use a service tester is to pass the input parameters to a service operation, and then view the service operation output.

Setting Up the SFA_FINANCIAL_AID Web Service

The PeopleTools Integration Broker applies to the SFA_FINANCIAL_AID web service and must be set up.

The following documentation is posted to My Oracle Support and should be reviewed as part of your Financial Aid Web Service implementation:

See *PeopleTools PeopleBook: Integration Broker*

See Campus Solutions 9.0 Generic Service Tester Tool [Doc ID 1478817.1]

Using SFA_FINANCIAL_AID Service Operations

This section discusses the service operations that are delivered with SFA_FINANCIAL_AID.

Using the SOAP Get Student Awards Service Operation

This section describes the SFA_FINANCIAL_AID SOAP service operation SFA_GET_STUDENT_AWARDS.

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Note. There is no difference in the request/response messages for SOAP and REST. The information contained in this section is also true for REST.

SOAP Service Name

SFA_FINANCIAL_AID

Service Operation

SFA_GET_STUDENT_AWARDS

Summary

Allows the student to view award information for an Institution and Aid Year

Description

The Get Student Awards request enables the user to retrieve student financial aid award details. This operation is designed to return full award data for only one Institution and Aid Year combination at a time. This data includes:

- Aid Year Totals
- Award (Item Type) Information
- Term Information
- Disbursement Information

Although only one year's full data is returned, the operation also retrieves a List of Values (LOV) of other Institution and Aid Year combinations where the student has award information available for viewing. The LOV allows the user to easily know which other combinations are available, which can then be used to submit a new request in order to see full award data for a different Institution/Aid Year.

The operation determines what award data to pull and how to organize it based on existing Campus Solutions Financial Aid Self Service setup options and security access.

See Configuration Considerations in this chapter.

Users

This service can be consumed by schools and third-party providers to render custom user interface on a tablet, mobile or any other device.

Processing

This service operation:

- Accepts the input parameters: EmplID, Institution and Aid Year. The EmplID must match the operator ID.
- Verifies that the operator has financial aid award information available for viewing based on Financial Aid Self Service options and security access.
- Retrieves and organizes the data requested based on Financial Aid Self Service options and security access.

Output

The following explains the layout of the response message.

- STUDENT_AWARD_SUMMARY

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This section contains the highest level of data and summation by Institution & Aid Year.

- SFA_AWARD_PER

  This attribute shows which display option has been chosen: Aid Year or Award Period.

  If Award Period is chosen, there is a different STUDNT_AWARD_SUMMARY section for each existing award period for the student (Academic and Non-Standard). This option controls how the data is divided within the response.

- STUDENT_AWARD_DETAIL

  This section contains the next level of detail from STUDENT_AWARD_SUMMARY, which is the Award and Award Totals. There is one STUDENT_AWARD_DETAIL section for every Award (Item Type) that the student has for that specific Institution and Aid Year (and Award Period, if that display option is chosen).

- STUDENT_TERM_DETAIL

  This section contains the next level of detail from STUDENT_AWARD_DETAIL, which is the Term and Term Totals. There is one STUDENT_TERM_DETAIL section for every Term associated with the Award for that specific Institution and Aid Year (and Award Period, if that display option is chosen).

- STUDENT_DISB_DETAIL

  This section contains the next level of detail from STUDENT_TERM_DETAIL, which is the Disbursement Date & Totals. There is one STUDENT_DISB_DETAIL for every Disbursement ID within the associated Term for that specific Institution and Aid Year (and Award Period, if that display option is chosen).

  Data in the STUDENT_DISB_DETAIL section is only returned for Awards that have a status of Accepted, Partially Disbursed or Fully Disbursed (see SFA_AWARD_STATUS_LOVDescr attribute).

- LOV

  The List of Values (LOV) section returns ALL Institutions and Aid Years the student has access to based on their user security, self-service setup and other related setup options. This provides a valid listing of only those Institution/Aid Years that can have full award data returned by the service.

- VALUE

  This section contains the next level of detail from LOV and repeats for each Institution and Aid Year for which the student has Award data and required security.

Error Conditions

If the student has no award data and/or no security to the award data requested, the service operation returns the following message:

“’You have no financial aid awards available for viewing.”’

Entity Registry Details for SFA_GET_STUDENT_AWARDS

	Entity	DB Record	Message
Request Entity	StudentAwardRequest	SFA_STD_AWD_WRK	SFA_GET_STUDENT_AWARDS_REQ
Response Entity	StudentAwardSummary	SFA_STD_AWDSWRK	SFA_GET_STUDENT_AWARDS_RESP
	StudentAwardDetail	SFA_STD_AWDDWRK	
	StudentAwardTerm	SFA_STD_TERMWRK	
	StudentAwardDisbursement	SFA_STD_DISBWRK	

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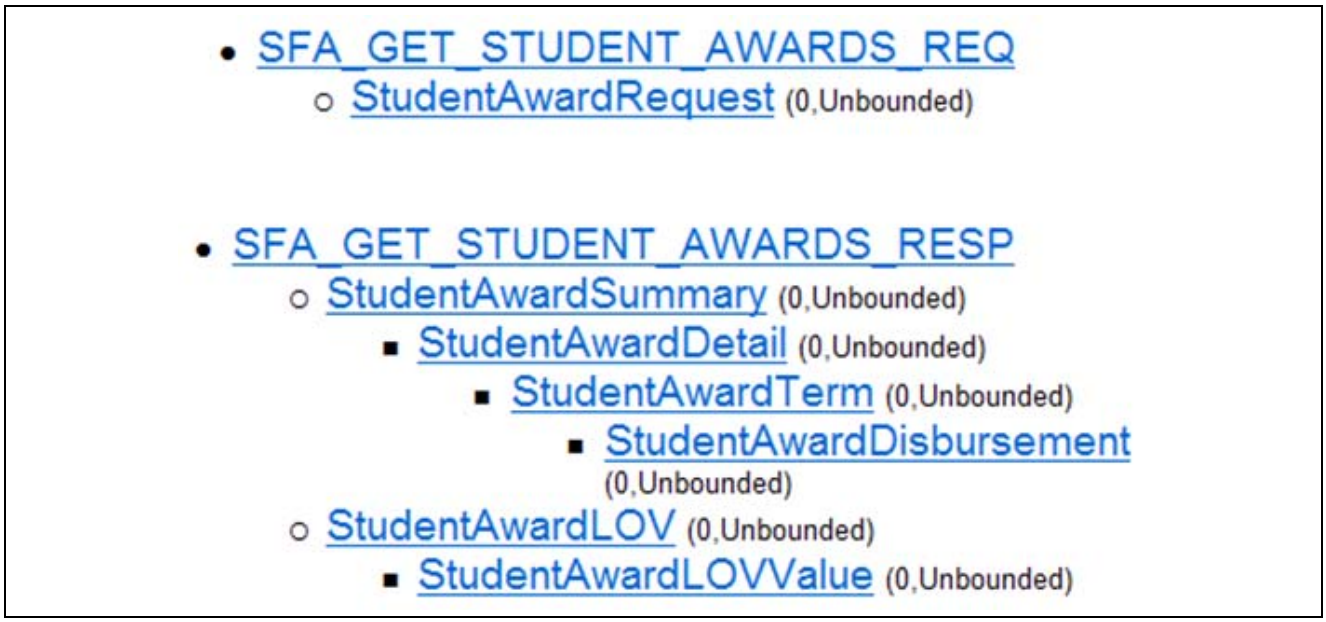
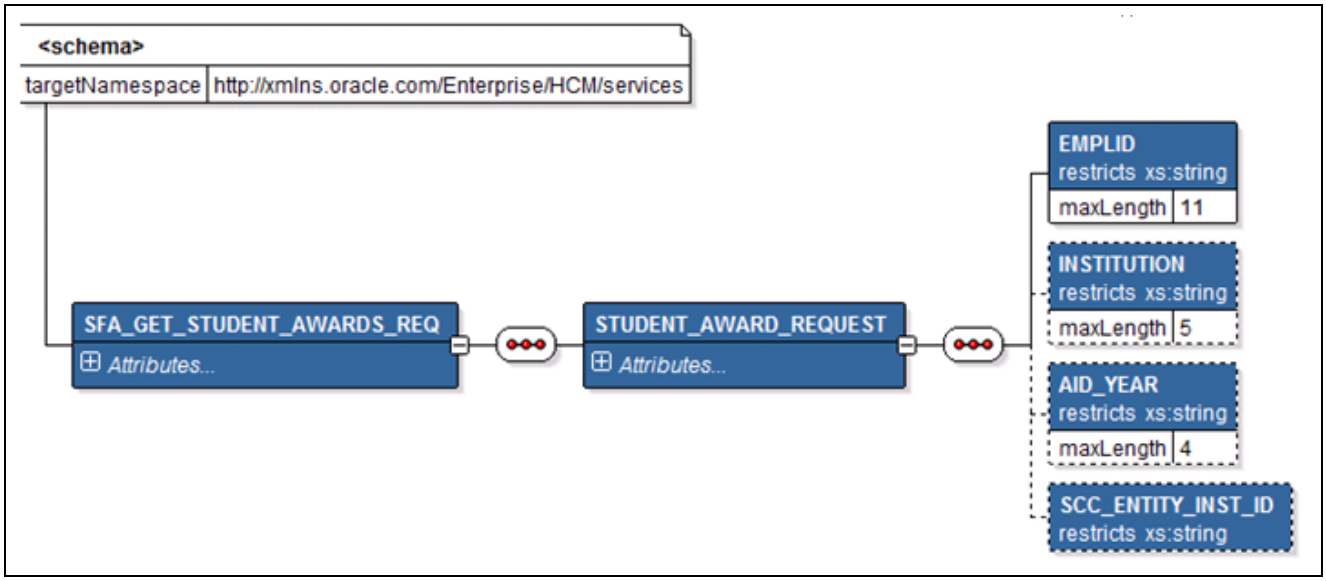
This is this SFA_FINANCIAL_AID Entity Hierarchy display:



SFA_FINANCIAL_AID Entity Hierarchy

Input Message: SFA_GET_STUDENT_AWD_REQ

The following diagram shows the input message structure that the SFA_GET_STUDENT_AWARDS_REQ service option receives from an application:



SFA_GET_STUDENT_AWD_REQ Message Structure

The following input parameters are required for an application to pass to the service operation:

Data	Description
EmplID (Employee ID)	Required. Defaults to operator's EmplID.
Institution	Optional
Aid Year	Optional

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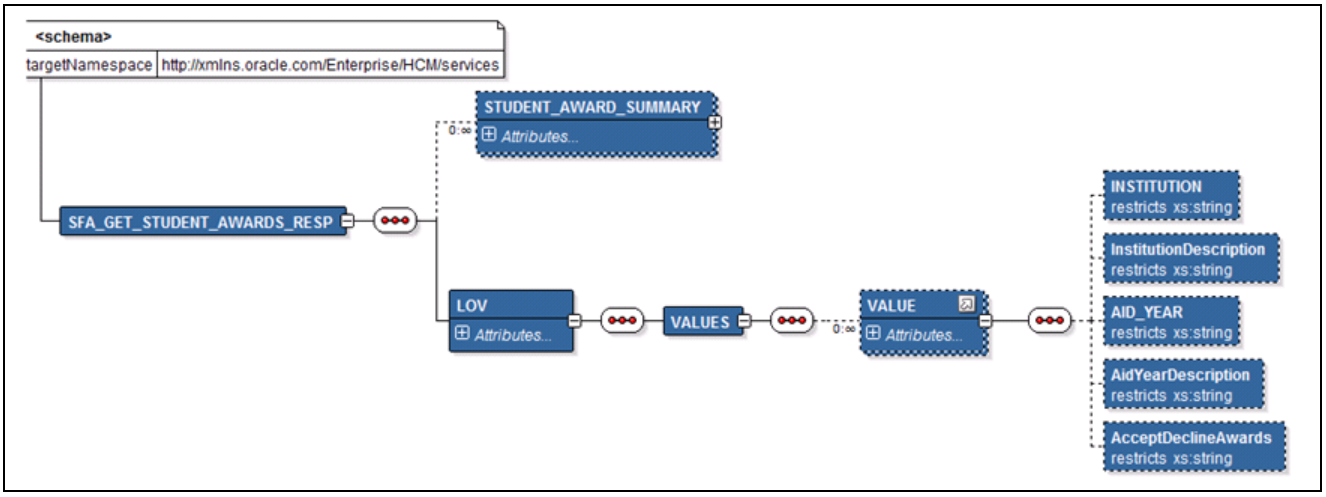
The following is an example of the SFA_GET_STUDENT_AWARDS_REQ message that the SFA_GET_STUDENT_AWARDS service operation receives from the an application:

```
<?xml version="1.0"?>
<SFA_GET_STUDENT_AWARDS_REQ xmlns="http://xmlns.oracle.com/Enterprise/HCM/services">
  <STUDENT_AWARD_REQUEST>
    <EMPLID>FAFUSE002</EMPLID>
    <INSTITUTION>PSUNV</INSTITUTION>
    <AID_YEAR>2013</AID_YEAR>
  </STUDENT_AWARD_REQUEST>
</SFA_GET_STUDENT_AWARDS_REQ>
```

Output Message: SFA_GET_STUDENT_AWD_RESP

When the Integration Broker receives the SFA_GET_STUDENT_AWD_REQ message, it responds with the SFA_GET_STUDENT_AWD_RESP message.

The following diagram shows the output message structure that the SFA_GET_STUDENT_AWARDS service operation passes to an application:



SFA_GET_STUDENT_AWD_RESP List of Values Message Structure

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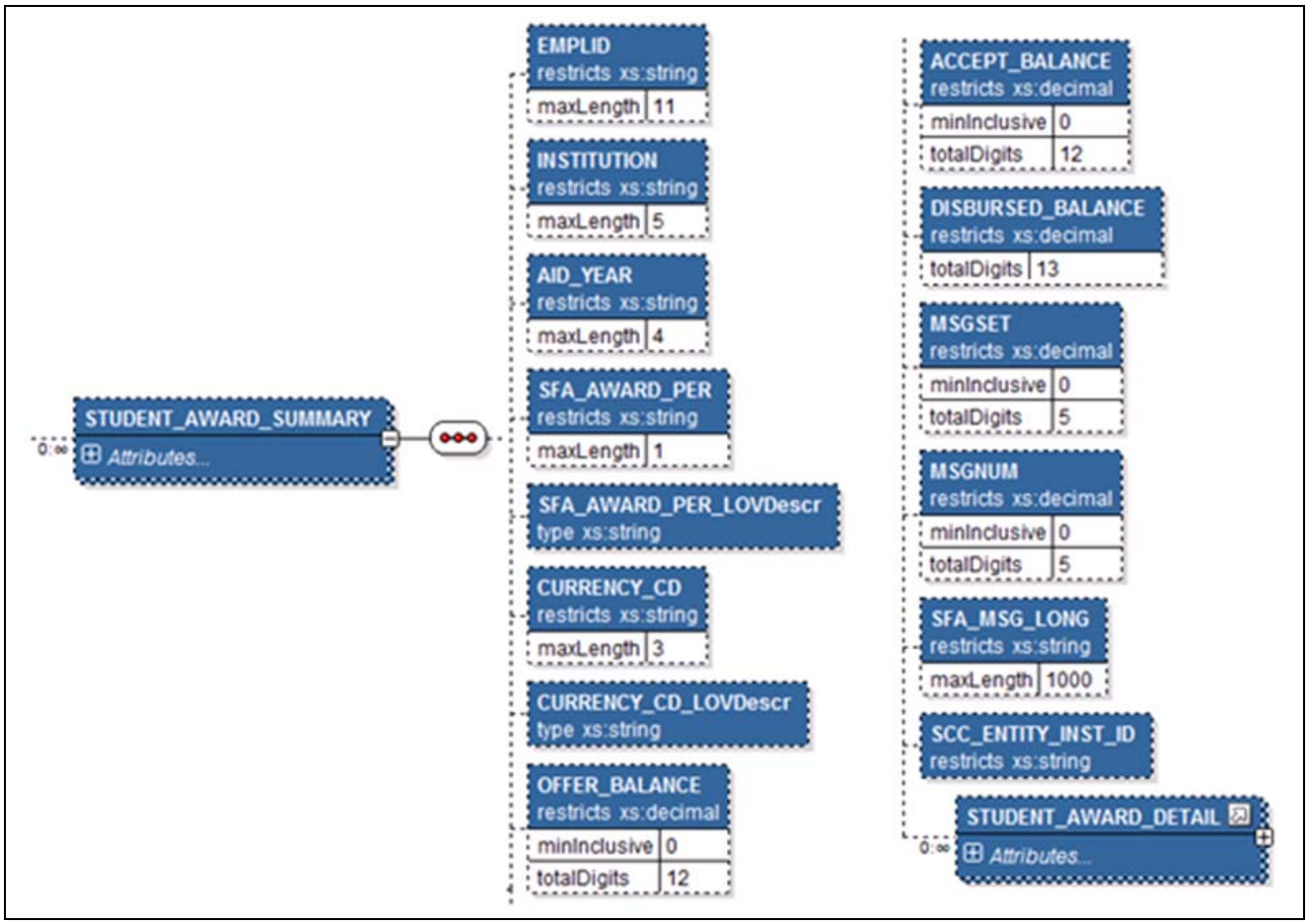
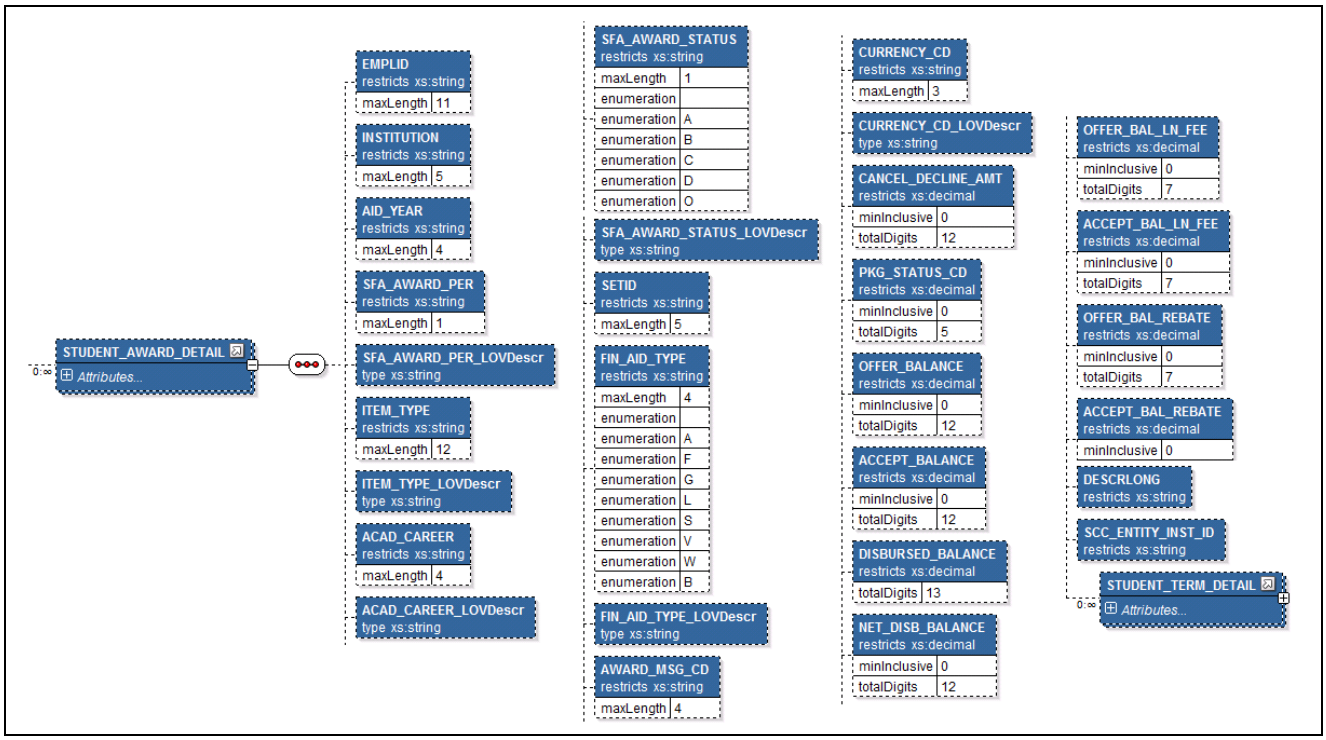


SFA_GET_STUDENT_AWD_REQ Student Award Summary Message Structure



SFA_GET_STUDENT_AWD_REQ Student Award Detail Message Structure

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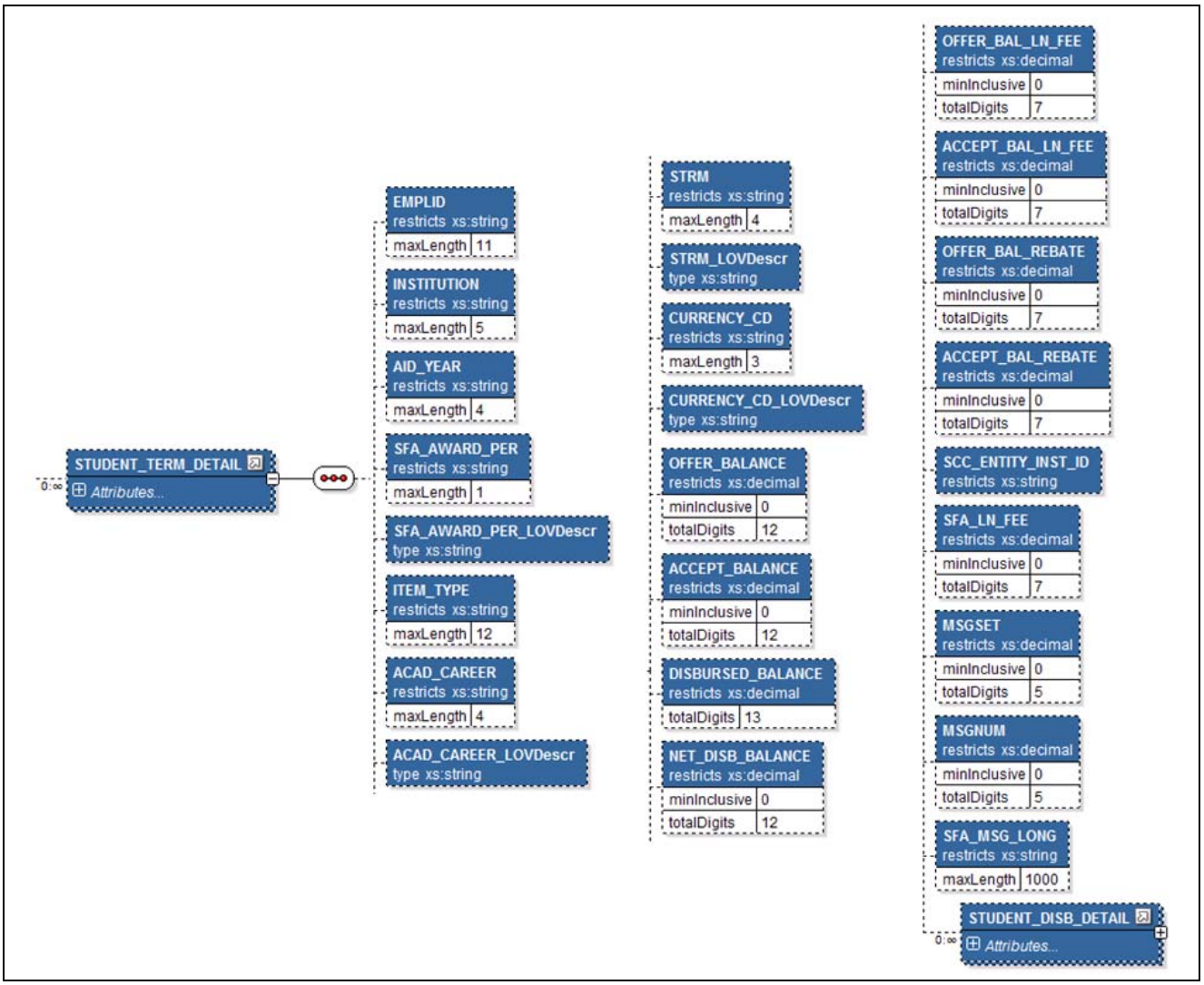

SFA_GET_STUDENT_AWD_REQ Student Term Detail Message Structure

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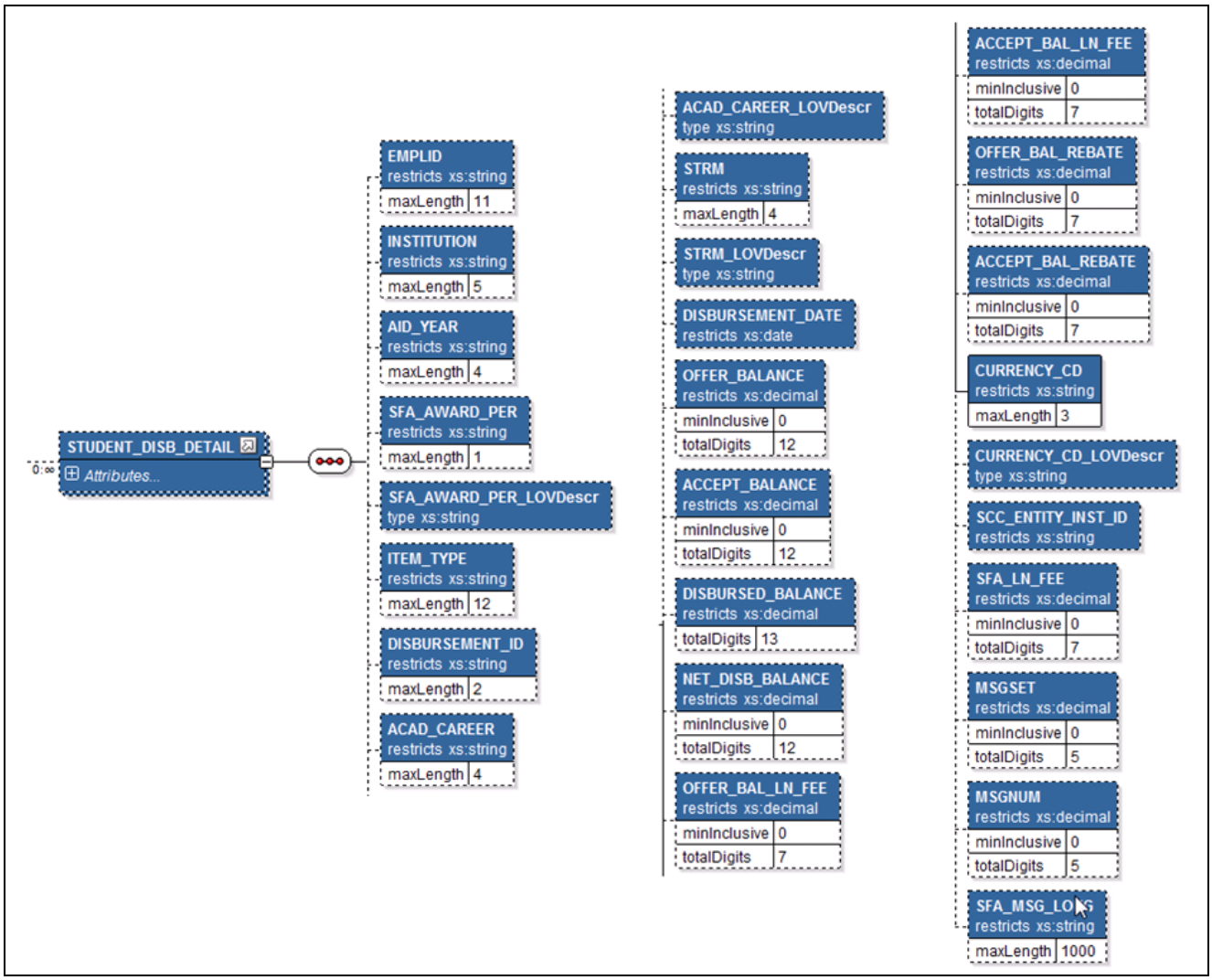

SFA_GET_STUDENT_AWD_REQ Student Disbursement Detail Message Structure

The following is an example of the SFA_GET_STUDENT_AWARDS_RESP message that the SFA_GET_STUDENT_AWARDS service operation transmits to an application:

```
<?xml version="1.0"?>
 <SFA_GET_STUDENT_AWARDS_RESP xmlns="http://xmlns.oracle.com/Enterprise/HCM/services">
  <STUDENT_AWARD_SUMMARY>
    <EMPLID>FAFUSE002</EMPLID>
    <INSTITUTION>PSUNV</INSTITUTION>
    <AID_YEAR>2013</AID_YEAR>
    <SFA_AWARD_PER>A</SFA_AWARD_PER>
    <SFA_AWARD_PER_LOVDescr>Academic Year</SFA_AWARD_PER_LOVDescr>
    <CURRENCY_CD>USD</CURRENCY_CD>
    <CURRENCY_CD_LOVDescr>US Dollar</CURRENCY_CD_LOVDescr>
    <OFFER_BALANCE>12843</OFFER_BALANCE>
    <ACCEPT_BALANCE>12843</ACCEPT_BALANCE>
    <DISBURSED_BALANCE>0</DISBURSED_BALANCE>
    <MSGSET>0</MSGSET>
    <MSGNUM>0</MSGNUM>
```

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```
<SFA_MSG_LONG></SFA_MSG_LONG>
<STUDENT_AWARD_DETAIL>
  <EMPLID>FAFUSE002</EMPLID>
  <INSTITUTION>PSUNV</INSTITUTION>
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  <ACAD_CAREER_LOVDescr>Undergraduate</ACAD_CAREER_LOVDescr>
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    <ACCEPT_BALANCE>500</ACCEPT_BALANCE>
    <DISBURSED_BALANCE>0</DISBURSED_BALANCE>
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      <NET_DISB_BALANCE>500</NET_DISB_BALANCE>
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      <MSGNUM>0</MSGNUM>
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    <ITEM_TYPE_LOVDescr>Federal Pell Grant</ITEM_TYPE_LOVDescr>
    <ACAD_CAREER>UGRD</ACAD_CAREER>
    <ACAD_CAREER_LOVDescr>Undergraduate</ACAD_CAREER_LOVDescr>
    <SFA_AWARD_STATUS>A</SFA_AWARD_STATUS>
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<SFA_AWARD_STATUS_LOVDescr>Accepted</SFA_AWARD_STATUS_LOVDescr>
<SETID>PSUNV</SETID>
<FIN_AID_TYPE>G</FIN_AID_TYPE>
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<PKG_STATUS_CD>0</PKG_STATUS_CD>
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<ACCEPT_BALANCE>4343</ACCEPT_BALANCE>
<DISBURSED_BALANCE>0</DISBURSED_BALANCE>
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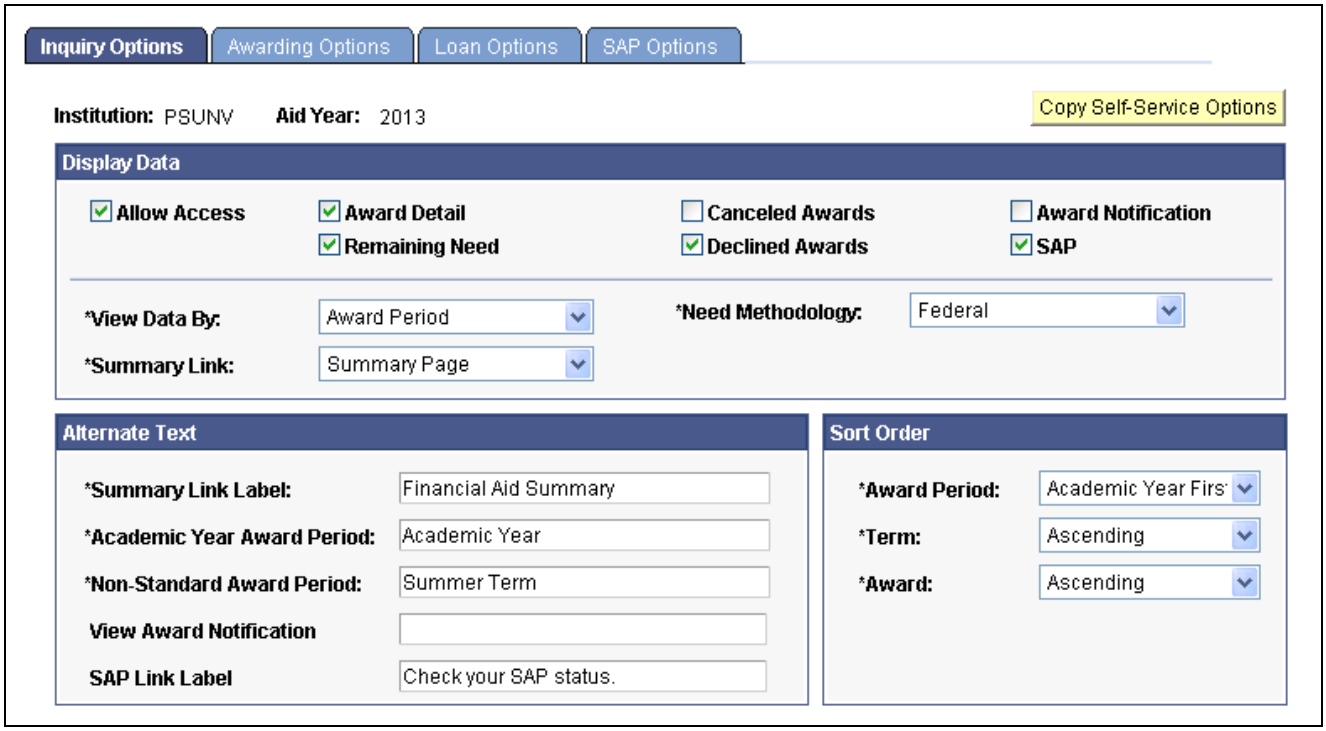
Configuration Considerations

The Get Student Awards service operation depends upon a number of existing Campus Solutions system configuration options. Many of the configuration options used to control which data and how that data is organized are the exact same options used to control existing Campus Solutions Financial Aid Self Service. Configuration considerations are at the follow places in the system:

- Self Service Inquiry Options
- Financial Aid Item Type setup
- Student Packaging Status Summary

Navigate to the Financial Aid Self Service Inquiry Options page (Set Up SACR, Common Definitions, Self Service, Financial Aid, Self Service Options, Inquiry Options tab).



Financial Aid Self Service Inquiry Options page

Allow Access This option must be selected in order for the response message to return data for this Institution and Aid Year.

Award Detail This option must be selected in order for the response message to return award data for this Institution and Aid Year.

Cancelled Awards If selected, the response message returns any award with a status of 'Cancelled' in the STUDENT_AWARD_DETAIL section. The response also retrieves any message contained within Message Catalog 14409/547. This is the same message displayed within Campus Solutions Financial Aid Self Service for Cancelled awards.

Declined Awards If selected, the response message returns any award with a status of 'Declined' in the STUDENT_AWARD_DETAIL section. The response also retrieves any message contained within Message Catalog 14409/547. This is the same message displayed within Campus Solutions Financial Aid Self Service for Declined awards.

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View Data By

This option controls how the data is organized within the response message.

If 'Aid Year' is selected, there is only one STUDENT_AWARD_SUMMARY section within the response message.

If 'Award Period' is selected, there can be multiple STUDENT_AWARD_SUMMARY sections within the response. This is based on how many award periods the student's awards are associated to. If the student has awards only for the Academic period, only one STUDENT_AWARD_SUMMARY section is returned. If the student has awards for both the Academic and Non-Standard periods, two STUDENT_AWARD_SUMMARY sections are returned.

Academic Year Award Period

If the View Data By option is set to 'Award Period', the value entered in this field is returned in the SFA_AWARD_PER_LOVDescr attribute for the Academic award period.

Non-Standard Award Period

If the View Data By option is set to 'Award Period', the value entered in this field is returned in the SFA_AWARD_PER_LOVDescr attribute for the Non-Standard award period.

Award Period

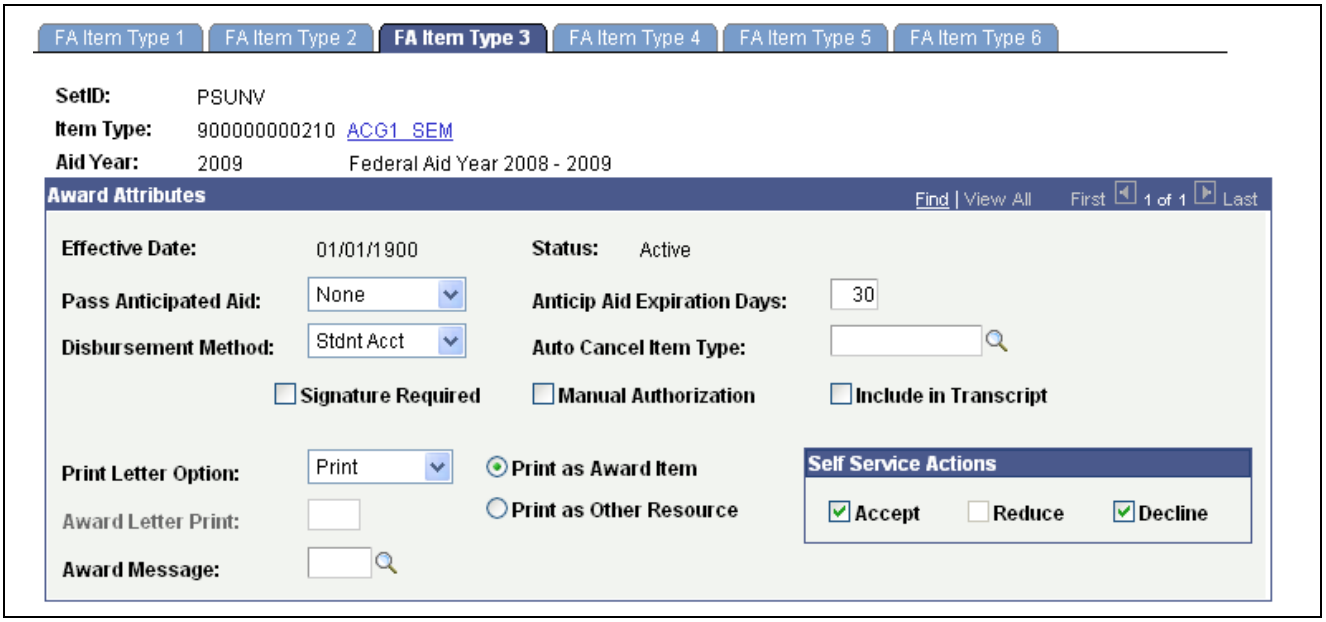
If the View Data By option is set to 'Award Period', this option controls the order in which award periods are returned (in the STUDENT_AWARD_SUMMARY section) when multiple award periods exist.

Term

If the View Data By option is set to 'Award Period', this option controls the order in which terms are returned (in the STUDENT_AWARD_TERM section) when multiple terms exist

See PeopleSoft Self Service 9.0 Self Service PeopleBook

Navigate to Financial Aid Item Type Self Service options (Set Up SACR > Product Related > Financial Aid > Financial Aid Item Types, FA Item Type 3 tab)



FA Item Type 3 page

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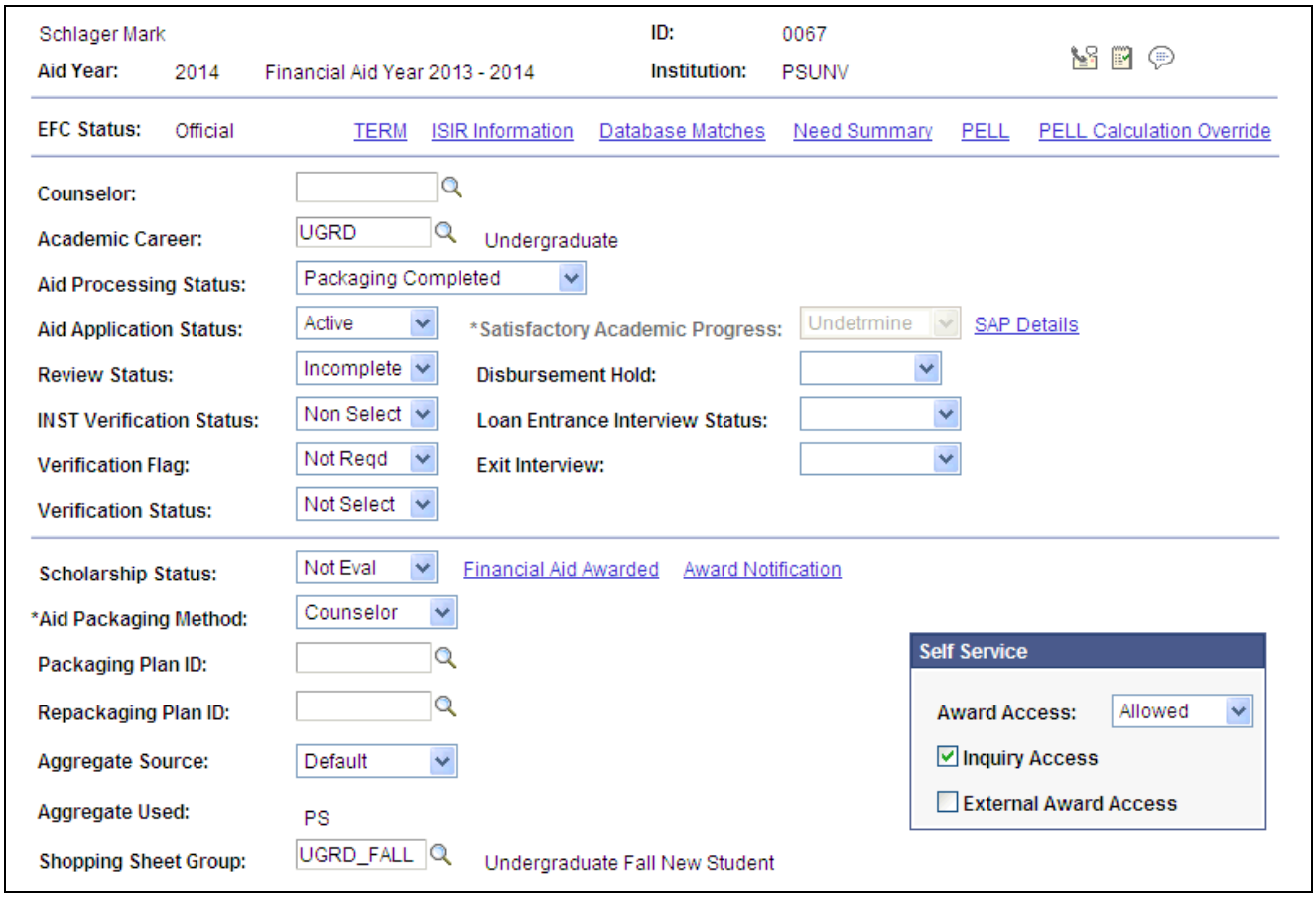
Print Letter Option Only Awards (Item Types) that have a Print Letter Option of 'Print' are returned as part of the response message. This mimics how Campus Solutions Financial Aid Self Service operates.

See PeopleSoft Financial Aid 9.0 PeopleBook, Setting Up Packaging Basics

Navigate to the Packaging Status Summary page (Financial Aid, View Packaging Status Summary).



Packaging Status Summary page

Award Access This option controls what value is returned in the AcceptDeclineAwards attribute of the LOV section of the response message. For each Institution and Aid Year combination returned, this attribute displays if the student has access to Accept/Decline their awards in Campus Solutions Self Service.

Inquiry Access This option must be selected in order for the response message to return award data for this Institution and Aid Year.

See PeopleSoft Financial Aid 9.0 PeopleBook, Preparing for Awarding and Packaging

Post Installation Troubleshooting

This section discusses how to:

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- Verify web service security settings.
- Publish the web services.

Verifying Web Service Security Settings

For the SFA_FINANCIAL_AID web service, the service operations are delivered with FULL ACCESS to the HCCPCS01000 – All Pages permission list.

To verify whether the HCCPCS01000 permission list is assigned to a service operation with FULL ACCESS:

1. Access the General page: PeopleTools, Integration Broker, Integration Setup, Service Operations, General.
2. Click the Service Operation Security link to access the Web Service Access page.
3. On the Web Service Access page, verify whether the permission list has full access.

Publishing the Web Services

To publish the SFA_FINANCIAL_AID (SFA_GET_STUDENT_AWARDS) web service, access the Provide Web Service page. Go to PeopleTools, Integration Broker, Web services, Provide Web Service.

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