CHAPTER 1

Using Student Financials Web Services

Bundle 31. New web service: SSF_FINANCIALS

This chapter discusses:

- Using the SSF_EPAYMENT_TRANS web service.
- Using the SSF_FINANCIALS web service.
- Service operations.
- Post installation troubleshooting.

Using the SSF_EPAYMENT_TRANS Web Service

This section provides an overview of the SSF_EPAYMENT_TRANS web service for hosted ePayment transactions and discusses how to:

- Process AAWS application fees.
- Use SSF_EPAYMENT_TRANS for AAWS application fee payment.

Understanding SSF_EPAYMENT_TRANS Web Service

Student Financials provides the SSF_EPAYMENT_TRANS web service with two adapter-based service operations—SSF_INITIATE_EPAYMENT and SSF_COMPLETE_EPAYMENT. These service operations allow an external user interface to use the hosted payment framework to collect payment information through a third party payment processor, authorize the payment, record the transaction in the SF_PAYMENT tables, and record the transaction in the General Ledger. Note that these transactions do not originate in Campus Solutions, but in an external UI—for example, Admissions Application Web Service (AAWS) online application.

For detailed information about the hosted payment framework, refer to the Electronic Payment Integration Developer's Reference Guide which is available on My Oracle Support.

The processing of hosted payment transactions that do originate in Campus Solutions is discussed in the Processing ePayment Transactions chapter.

See [PeopleSoft Enterprise Student Financials 9.0 PeopleBook - Update 1, Processing ePayment Transactions].

For information about setting up SF merchants,

See [PeopleSoft Enterprise Student Financials 9.0 PeopleBook - Update 1, Setting Up ePayment Processing, Setting Up SF Merchants].

See [PeopleSoft Enterprise Student Financials 9.0 PeopleBook - Update 1, Using GL Interface Processing, Generating Direct to GL Entries].

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See [PeopleSoft Enterprise Campus Solutions 9.0 Application Fundamentals PeopleBook - Update 1, Setting Up Adapters].

Processing AAWS Application Fees

This section provides an overview of AAWS application fees. To use the AAWS application fee payment process, you must implement hosted payment with your provider.

Understanding AAWS Application Fees

Admissions Application Web Services (AAWS) is a set of web services that allow schools to post application data collected through their own online application into Campus Solutions. This is done by initially storing application data in a set of tables (Staging Data) that mirrors the current Admissions application stack (Production Data) as the application information is collected and saved. After the student submits the application, the data is validated and promoted to the current admissions production tables.

As part of the online application process, an application fee may be assessed and a payment required from the applicant before the application can be submitted and processed. The timing of the presentment of the fee amount and subsequent collection of payment requires a fee calculation method based on the staging records (as opposed to the Production Data used by the Cobol application fee calculation process).

Electronic payments for the application fee must be authorized at the time of payment to verify the availability of funds before the application can be processed. So that schools are not faced with PCI compliance issues inherent in such electronic payment processing, AAWS has the ability to connect with a third party host that performs the electronic data collection and storage.

Because of the timing of the AAWS fee calculation and payment—payment for an application is collected before the application is promoted to production—an Emplid is not assigned to the applicant at the time the fee is calculated/paid. Because most Student Financials tables, including the SF account tables are keyed by Common ID (contains either an Emplid or External Org ID), these transactions cannot be recorded as part of a student account. The application transaction, however, must still be recorded in the General Ledger. The Direct to GL process allows schools to bypass the creation of a student account. Any transactions recorded directly to the General Ledger must be refunded manually. The transaction does not show in the Self Service Account Inquiry, or the Customer Account Inquiry.

See [PeopleSoft Enterprise Recruiting and Admissions 9.0 PeopleBook - Update 1, Building Your Recruiting Structure, Setting Up Your Recruiting Structure, Setting Up Application Processing Centers].

See [PeopleSoft Enterprise Recruiting and Admissions 9.0 PeopleBook - Update 1, Adding and Updating Applications, Adding New Applications Manually, Entering Application Data].

See [PeopleSoft Enterprise Student Financials 9.0 PeopleBook - Update 1, Setting Up Fees and Tuition Groups, Setting Up Application Fees].

See [PeopleSoft Enterprise Student Financials 9.0 PeopleBook - Update 1, Using GL Interface Processing, Generating Direct to GL Entries].

See [PeopleSoft Recruiting and Admissions 9.0 PeopleBook]Managing Admission Transactions.

See [PeopleSoft Recruiting and Admissions 9.0 PeopleBook]Using Admission Applications Web Services.

Using SSF_EPAYMENT_TRANS for AAWS Application Fee Payment

This section provides a high level overview of the steps involved when an applicant pays the AAWS application fee through an external user interface.

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The setup of the AAWS Application Fee and Waiver Processing group box on the Application Center Table page controls how an online application fee payment or waiver is processed.

The applicant has entered the required information and is ready to submit the application. Based on the Application Center setup, the applicant sees the relevant buttons on the external UI—for example: Request a Waiver, Make a Payment, or Pay at a Later Time.

When the applicant clicks the button to make a payment:

- The AAWS Submit web service (SAD_SUBMITAPPL) calls the Application Fee Calculation API which calculates the fee. The Submit web service returns the amount and currency code to the external UI which displays the fee.
- The Get List Of Values web service is called to determine the payment methods. These values are set up by the institution.

The applicant views the fee amount and selects a payment method. The applicant must make payment in full. Similarly, if the applicant has multiple applications, separate payments must be made for each.

When the applicant clicks the button to make the payment, the external UI calls the SSF_INITIATE_EPAYMENT web service. This web service returns values to the external UI which then redirects the applicant to the third party hosted site. The SF_PAYMENT record is created at this point. The tender rows are created in the AAWS staging records.

The applicant, who is no longer on the external UI site but on the third party hosted site, enters his or her epayment information. For echeck, the shared secret is the date of birth in the staging tables.

The applicant clicks to continue from the third party page and the payment processor redirects to the external UI. The external UI calls the SSF_COMPLETE_EPAYMENT web service. The SSF_COMPLETE_EPAYMENT web service leverages the hosted payment framework to interpret the results of the payment and call the Payment Application adapter to update the session ID and the last 4 digits of the account on the SF Payment. It also calls the SF Payment Transaction Manager to complete the payment. If the transaction is successful, the payment is authorized and posted to the GL. The payment transaction adapter updates the application-related data based on the attributes of the SF Payment.

For detailed information about the AAWS application fee payment process, including the SF web services:

See [PeopleSoft Recruiting and Admissions 9.0 PeopleBook]Using Admission Applications Web Services.

For information about how the Application Data staging page fields are updated when an online application fee or waiver is processed,

See [PeopleSoft Recruiting and Admissions 9.0 PeopleBook]Managing Admission Transactions.

For information about the Direct to GL process,

See [PeopleSoft Enterprise Student Financials 9.0 PeopleBook - Update 1, Using GL Interface Processing, Generating Direct to GL Entries].

Using the SSF_FINANCIALS Web Service

Bundle 31. New

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Student Financials provides the SSF_FINANCIALS web service with the service operation SSF_GET_STUDENT_ACCOUNT. SSF_GET_STUDENT_ACCOUNT allows an external user interface to access Student Account Information - Charges Due, Account Balance, Recent Payments and Pending Financial Aid.

This section provides an overview of SSF_FINANCIALS web service and discusses:

- SSF_FINANCIALS and Entity Registry.
- SSF_FINANCIALS description language.

Understanding the SSF_FINANCIALS Web Service

The SSF_FINANCIALS web service can be used by end-user devices (such as a browser or a PDA), enterprise applications, or other third-party software that can interface through standards-based means. For example:

- Oracle presentation technologies, such as Portal, Application Development Framework (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
- Third-party middleware and applications

SSF_FINANCIALS web service provides the following SOAP and REST services that enable you to access student accounts in Campus Solutions Student Financials:

Service	Service Operation	Description
SSF_FINANCIALS	SSF_GET_STUDENT_ACCOUNT	Get Student Account
SSF_FINANCIALS_R	SSF_GET_STUDENT_ACCOUNT_R_POST	Get Student Account REST POST

The SSF_GET_STUDENT_ACCOUNT operation returns a subset of student data that is normally accessible through the Campus Solutions Self Service inquiry pages. This operation is currently available only in self-service mode.

Note. SSF_GET_STUDENT_ACCOUNT invokes the Tuition Calculation process to ensure that the data returned is the most recent student account information. The invocation depends on the tuition calculation, self-service and other related setup.

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. SSF_FINANCIALS 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.

Assessing Staff Skills

Developers who implement SSF_FINANCIALS web service must have strong skills in:

- A tool or technology to build and deploy user interfaces
- PeopleSoft Integration Broker

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- PeopleCode
- Web services concepts mainly XML, SOAP, REST and WSDL
- Campus Community Entity Registry functionality
- Student Financials functionality

Setting up SSF_FINANCIALS Web Service

The following components that apply to SSF_FINANCIALS web service and must be set up are:

- PeopleTools Integration Broker
- Student Financials: SF Institution Set

The following documentation is posted to My Oracle Support and should be reviewed as part of your SSF_FINANCIALS web service implementation.

See Also

Enterprise PeopleTools PeopleBook: Integration Broker

PeopleSoft Campus Self Service 9.0 PeopleBook, Setting Up Student Financials Self Service, Setting Up Institution Sets

PeopleSoft Campus Self Service 9.0 PeopleBook, Setting Up Student Financials Self Service, Setting Up Self-Service Options

PeopleSoft Financial Aid 9.0 PeopleBook, Setting Up Your Financial Aid Awarding Cycle, Establishing Careers and Programs

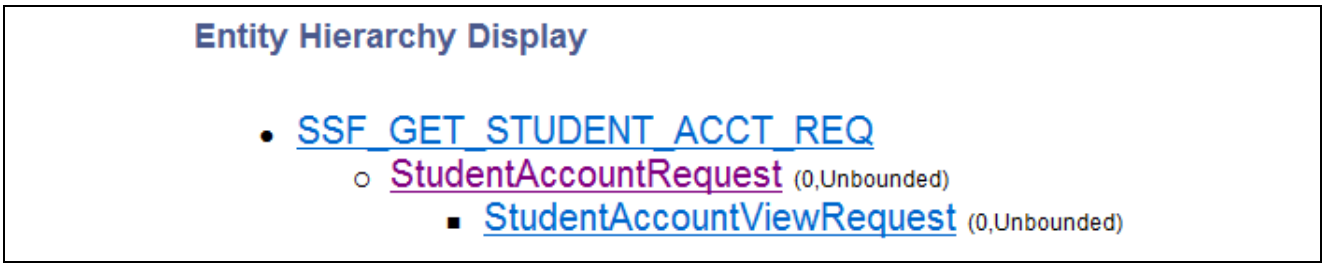
Campus Solutions 9.0 Generic Service Tester Tool [Doc ID 1478817.1]

PeopleSoft Student Financials 9.0 PeopleBook, Setting Up Tuition Controls, Criteria, Equations, and Waivers, Establishing Tuition Calculation Controls

SSF_FINANCIALS and Entity Registry

SSF_FINANCIALS web service uses the entity registry to provide the structure in which to return student account data.

Student Financials provides basic and work entities to represent Student Financials student account data. These entities are not directly related to existing records. The Get Student Account service returns data in 'Views'. Each view represents an amalgamation of data retrieved from the Student Account.



Entity Hierarchy for Get Student Account Request

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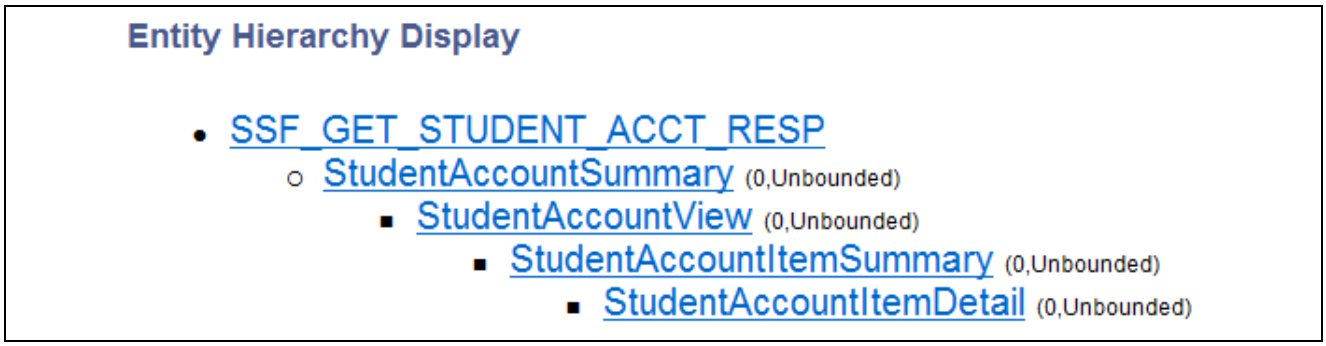
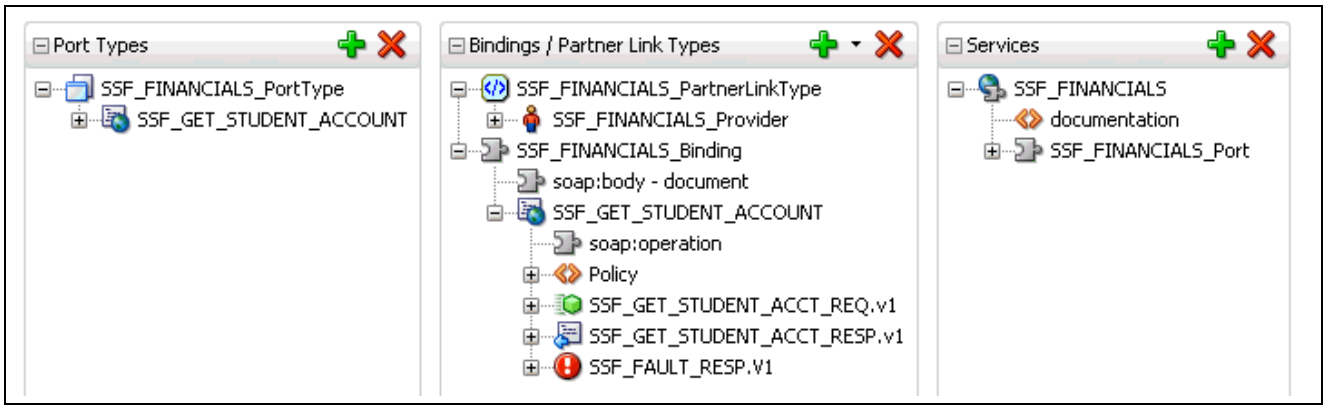


Entity Hierarchy for Get Student Account Response

SSF_FINANCIALS Description Language

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

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



SSF_FINANCIALS WSDL

Service Operations

Bundle 31. New

This section discusses the service operations for SSF_FINANCIALS.

Note. The schema diagrams may be updated in future bundle releases.

There is no difference in the request/response messages for SOAP and REST.

SSF_FINANCIALS Service Operations

This section describes the SSF_FINANCIALS service operation SSF_GET_STUDENT_ACCOUNT.

SSF_GET_STUDENT_ACCOUNT

The Get Student Account request enables the user to retrieve student account details. This service retrieves Charges Due, Recent Payments and Pending Financial Aid details based on the setup and data available.

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The Get Student Account service operation is available only in self-service mode. Although the EmplID is part of the request, it is overridden so that only the operator's EmplID is used.

The following list describes the Get Student Account service operation.

- Description:

  The Get Student Account service operation extracts and publishes student account information.

- 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:

  The service operation:

  - Accepts the input parameters: EmplID, Business Unit, and Term. The EmplID must match the operator ID.
  - Verifies that the operator has an institution set and that the institution set is service-enabled. Otherwise, the service operation returns a SOAP fault with the error: *We are unable to display your account at this time (14872, 9).*
  - Invokes Tuition Calculation, if required. The service operation uses the same criteria as self-service to determine if tuition calculation needs to run, and which terms require recalculation.
  - Retrieves data according to the views requested.
  - Calculates SSF_OVERALL_ACTBAL based on the business units in the Institution Set. This amount represents the total ITEM_AMT for business units in the institution set and may be a negative amount.
  - If requested, fetches due charges for the EmplID based on the business units in the student's institution set. Other filter criteria that are passed, for example Business Unit, Term, are also applied in order to fetch the due charges. Data is sorted in ascending order of Due Date, Business Unit and Term. Required charges and deposits are returned by Due Date on the Item Summary across multiple business units. Individual due dates, item description, item number, and amounts are returned on the Item Detail level. The Item Summary view for the Due Charges and Deposits returns the earliest due date first. The Item Detail returns the due charges and deposits in business unit and term order for the specified due date. If there are no charges or deposits due, the following message is returned on the Message Set/Message number of the StudentAccountView: *You have no outstanding charges or deposits at this time" (14872,10).*
  - If requested, the Recent Payments View returns Payment table rows in the Item Summary for the student. The value in the Maximum Payments in Service field is used to identify the number of payment rows to be retrieved. Payments are defined as item type code of P. It excludes credits that have a contract number associated with it. Payments are retrieved in descending order of Posted Date, ensuring the most recent payments are returned by the service operation. No Item Detail is returned for this view.

  See PeopleSoft Student Financials 9.0 PeopleBook, Setting Up Institution Sets, Defining Basic Institution Set Parameters.

  - If requested, fetches Pending Financial Aid (Anticipated Financial Aid) information. Item Summary is returned in Term and then Institution order. Item Detail is returned for the Pending Aid view, and each detail includes the Career, Item Type, and amount. Unlike the Self Service Pending Aid component, this view only returns data for terms and careers that have an Anticipated Aid Display Date. This date is defined in the Valid Terms for Careers page, and allows users to limit the terms and careers that are returned by the service operation. If no date is defined, the data for the term is not returned.

  See PeopleSoft Financial Aid 9.0 PeopleBook, Setting Up Your Financial Awarding Cycle, Establishing Careers and Programs, Defining Valid Terms for Careers.

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- If requested, the Due Charges and Deposits by Term return a sum of all due charges and deposits that are summarized by term and business unit.

Note. The Business Unit passed to the service is not used by the tuition calculation process to show overall account balance.

Tuition Calculation is done for all business units to which a student is enrolled regardless of the Business Unit value that is passed to the service request. The overall account balance represents the student account balance across all business units.

- Output:

  After processing, the operation returns the Due Charges, Recent Payments and Pending Financial Aid (Anticipated Aid) details.

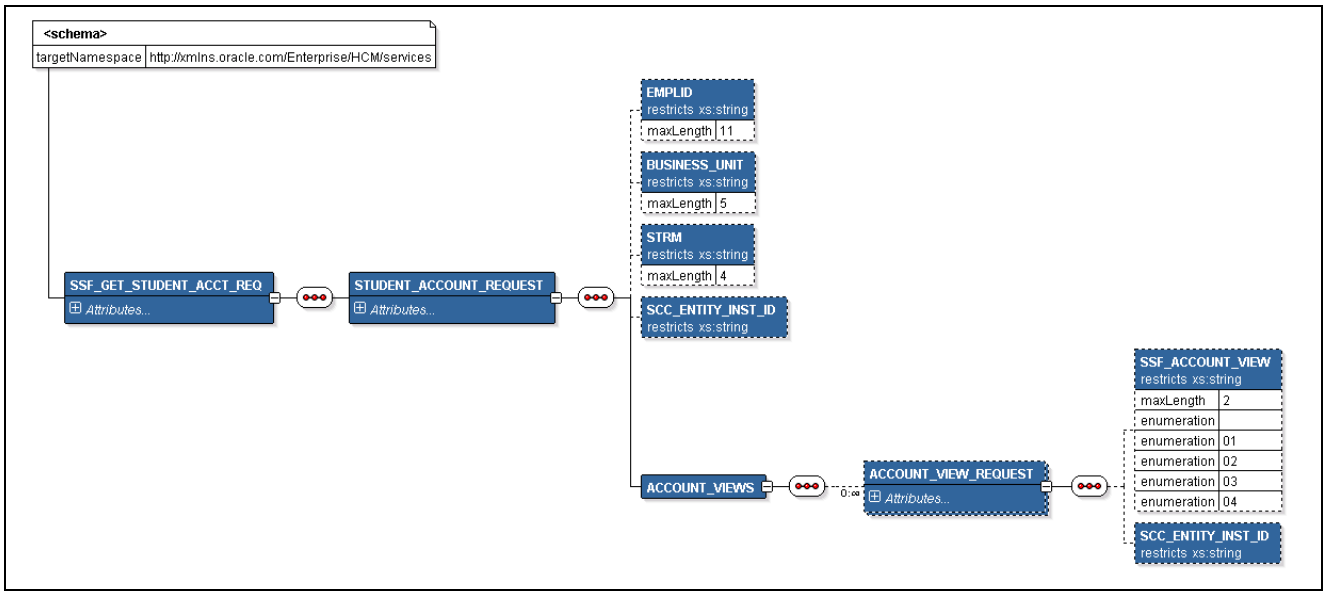
- Error Conditions:

  These conditions result in a service error:

  - EmplID does not have the required permission or security to access the Student Financial components.
  - EmplID is not associated to a SF Institution Set.
  - SF Institution Set is not set up to be used by the service operation, that is, the Allow Use in Service check box is not selected.

  See PeopleSoft Student Financials 9.0 PeopleBook, Setting Up Institution Sets, Defining Basic Institution Set Parameters.

Input Message: SSF_GET_STUDENT_ACCT_REQ



SSF_GET_STUDENT_ACCT_REQ Message Parameters

The Get Student Account request may include the EmplID, Business Unit, and Term. It must include one or more views. Views represent the type of data that is requested. A view could be: Due Charges, Payment, Anticipated Aid, or Due Charges by Term.

The following table lists data that can be passed to the service operation:

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Data	Description
Employee ID	Required. Defaults to operator's EmplID.
Business Unit	Optional
Term	Optional
Account Views	Required. There are four views that represent different data for the student. • View 01: Due Charges and Deposits. This view retrieves charges due and any deposits by due date. • View 02: Recent Payments. This view retrieves most recent payments. • View 03: Pending/Anticipated Financial Aid. This view retrieves pending financial aid. • View 04: Due Charges and Deposits by Term. This view retrieves charges due and any deposits by term.

The following code is an example of the SSF_GET_STUDENT_ACCT_REQ message that the SSF_GET_STUDENT_ACCOUNT service operation receives from a service caller:

```
<?xml version="1.0"?>
<SSF_GET_STUDENT_ACCT_REQ xmlns="http://xmlns.oracle.com/Enterprise/HCM/services">
 <STUDENT_ACCOUNT_REQUEST>
  <EMPLID>SFSCE0001</EMPLID>
  <BUSINESS_UNIT/>
  <STRM/>
  <ACCOUNT_VIEWS>
   <ACCOUNT_VIEW_REQUEST>
    <SSF_ACCOUNT_VIEW>01</SSF_ACCOUNT_VIEW>
   </ACCOUNT_VIEW_REQUEST>
   <ACCOUNT_VIEW_REQUEST>
    <SSF_ACCOUNT_VIEW>02</SSF_ACCOUNT_VIEW>
   </ACCOUNT_VIEW_REQUEST>
   <ACCOUNT_VIEW_REQUEST>
    <SSF_ACCOUNT_VIEW>03</SSF_ACCOUNT_VIEW>
   </ACCOUNT_VIEW_REQUEST>
   <ACCOUNT_VIEW_REQUEST>
    <SSF_ACCOUNT_VIEW>04</SSF_ACCOUNT_VIEW>
   </ACCOUNT_VIEW_REQUEST>
  </ACCOUNT_VIEWS>
 </STUDENT_ACCOUNT_REQUEST>
</SSF_GET_STUDENT_ACCT_REQ>
```

Output Message: SSF_GET_STUDENT_ACCT_RESP

When the Integration Broker receives the SSF_GET_STUDENT_ACCT_REQ message, it responds with the SSF_GET_STUDENT_ACCT_RESP message.

The following diagram shows the output parameters that the SSF_GET_STUDENT_ACCOUNT service operation passes to the service caller:

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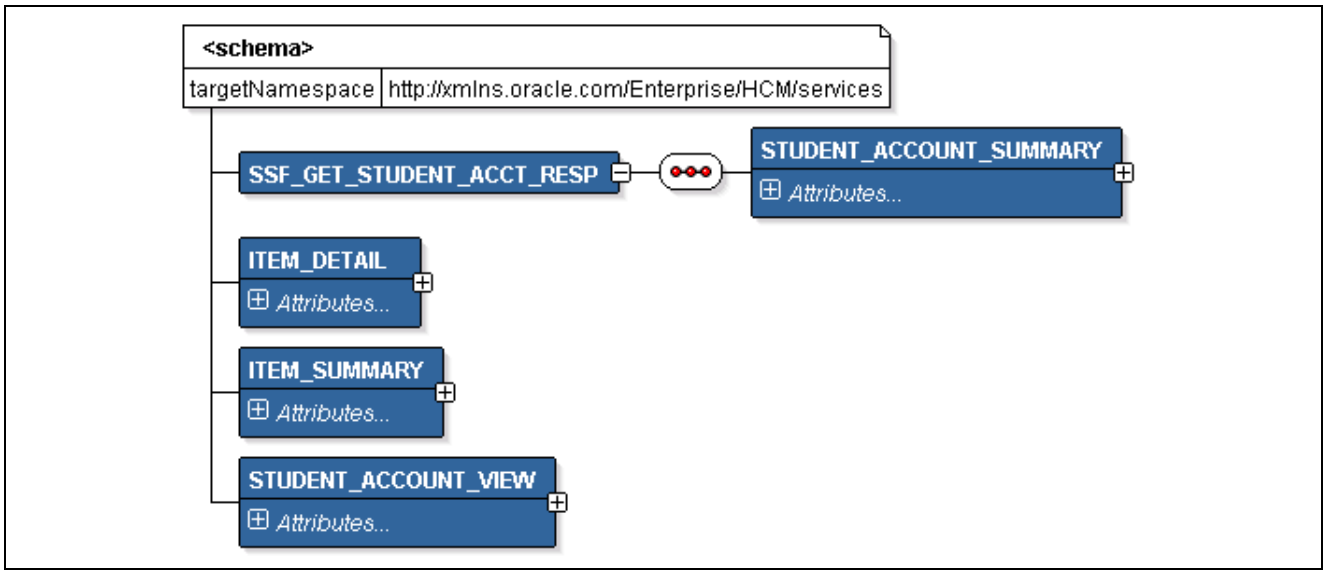
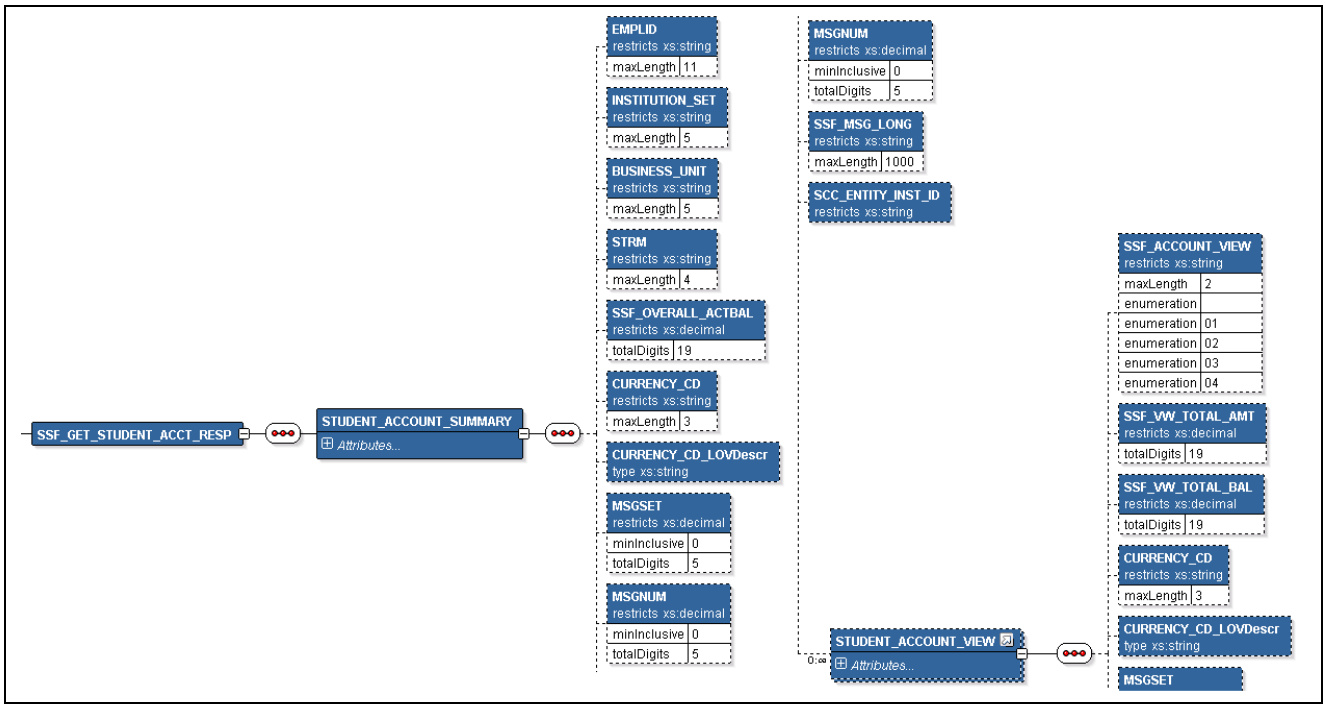


SSF_GET_STUDENT_ACCT_RESP XSD Schema, 1 of 5

The SSF_GET_STUDENT_ACCT_RESP schema includes the STUDENT_ACCOUNT_SUMMARY, STUDENT_ACCOUNT_VIEW, ITEM_SUMMARY and ITEM_DETAIL entity XSD schemas, which are illustrated by the following diagrams:



SSF_GET_STUDENT_ACCT_RESP XSD Schema, 2 of 5

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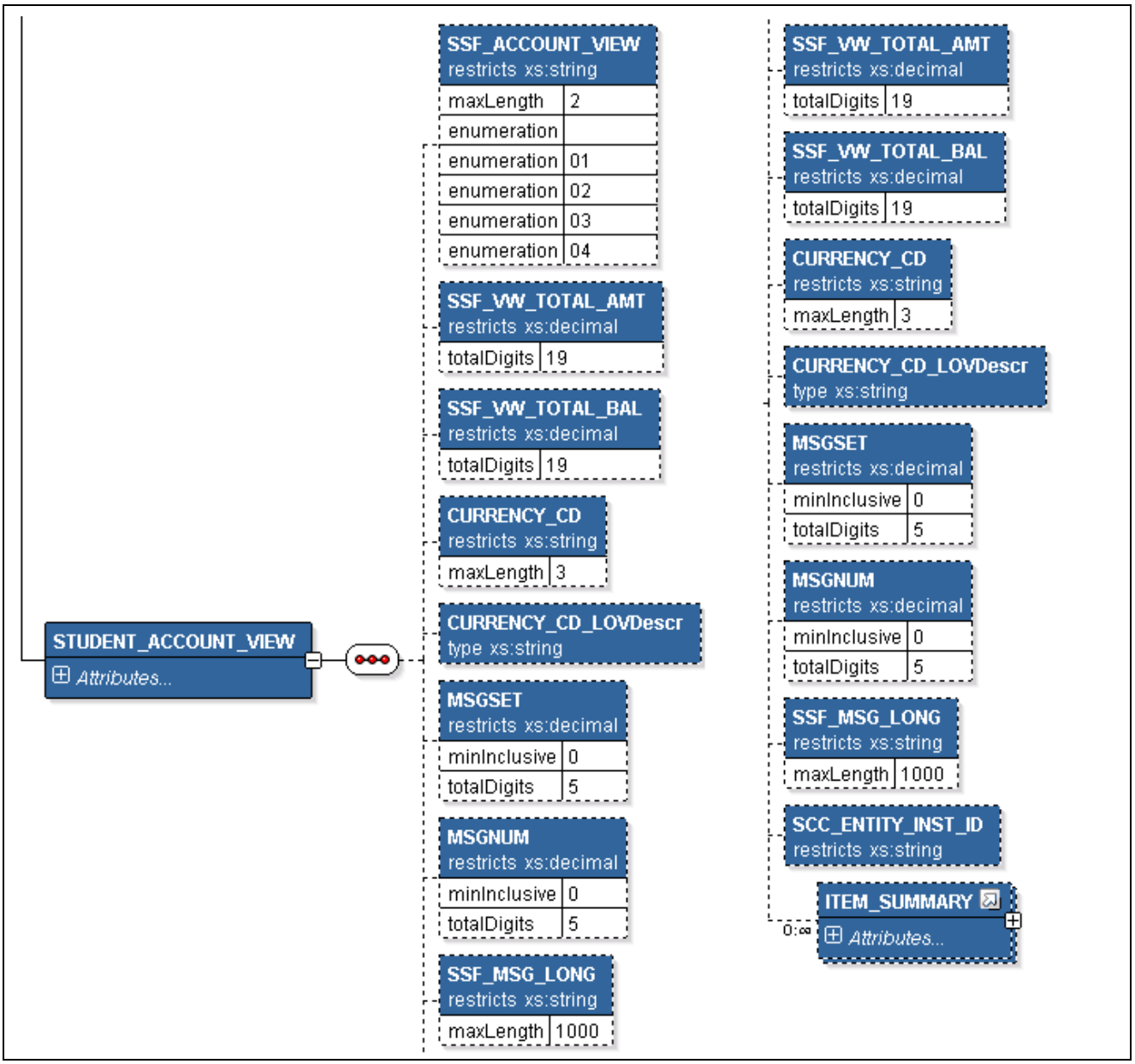

SSF_GET_STUDENT_ACCT_RESP XSD Schema, 3 of 5

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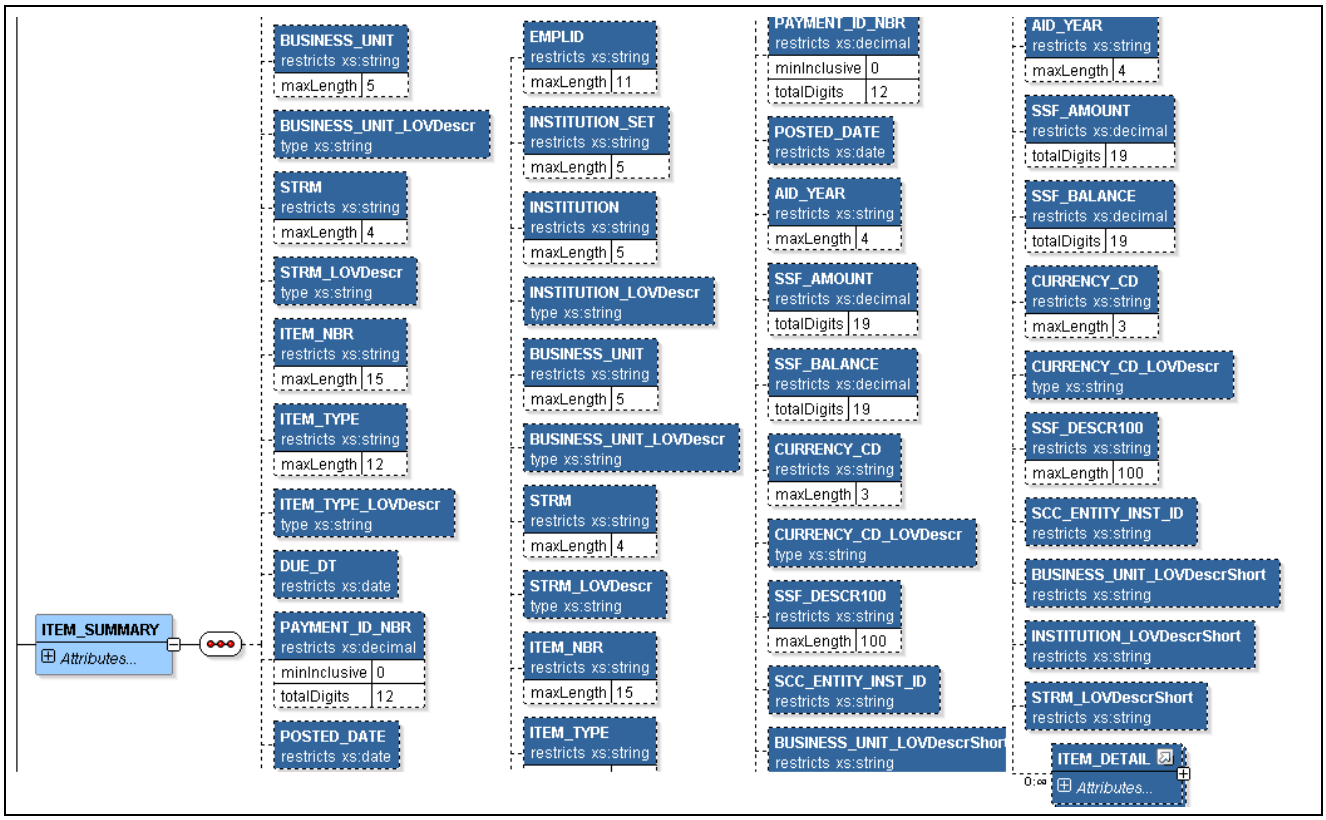
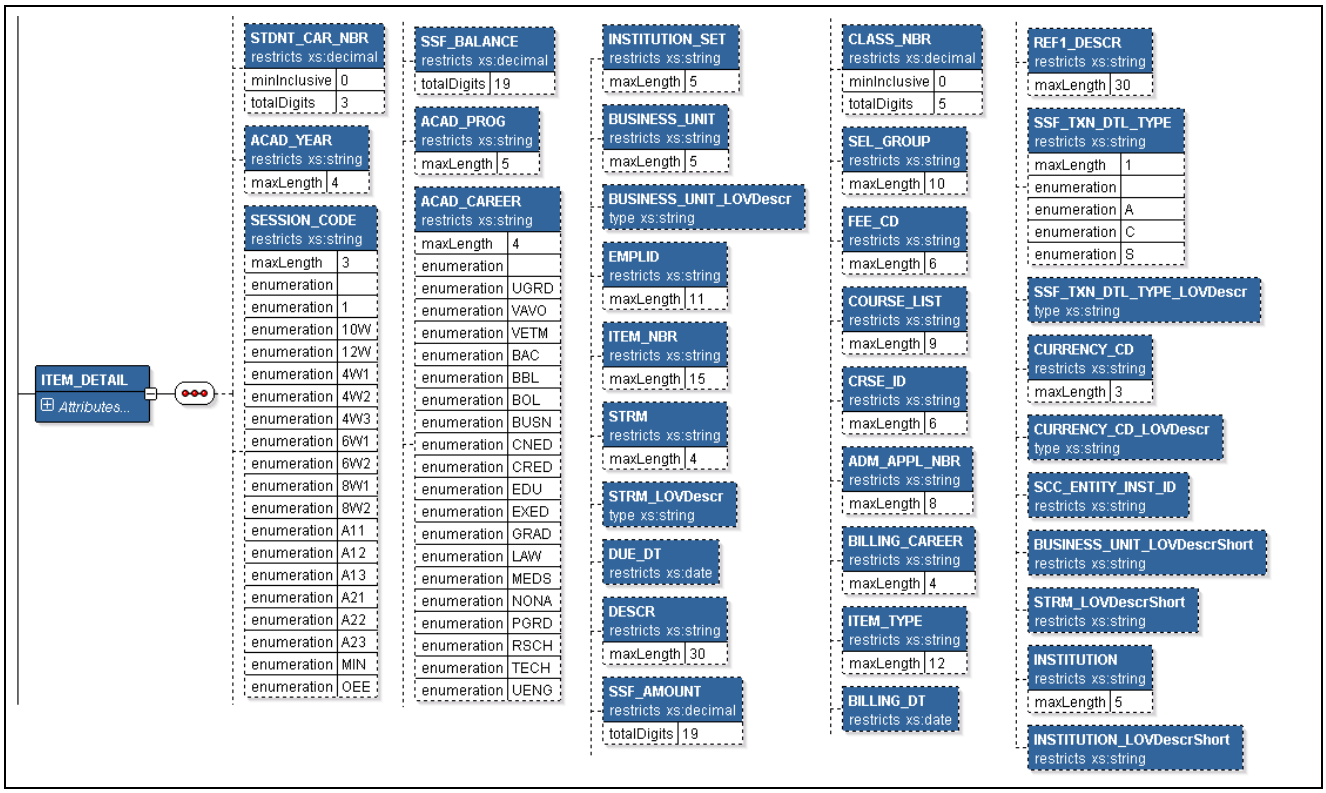


SSF_GET_STUDENT_ACCT_RESP XSD Schema, 4 of 5



SSF_GET_STUDENT_ACCT_RESP XSD Schema, 5 of 5

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The Student Account Summary (STUDENT_ACCOUNT_SUMMARY) entity returns high level student information, such as the Institution Set and the student's Overall Balance. These data elements return the same information regardless of the view you request. The data returned by the service takes into account the Business Units defined for the student's Institution Set. Make sure you set up the self-service components that apply to this service.

Depending on the view you request, the Student Account Item Summary (ITEM_SUMMARY) may contain various types of information from different levels of the student account. ITEM_SUMMARY is not directly tied to the Student Financials Item_SF. The data that is returned could be the payment table row, the total charges due for a date, anticipated aid for a term, and so on. In addition, Student Account Item Detail (ITEM_DETAIL) may or may not be returned.

The following table lists the account views that represent various types of student data:

View	Type of Student Data
SSF_ACCOUNT_VIEW = 01	Due Charges and Deposits by Due Date
SSF_ACCOUNT_VIEW = 02	Recent Payments. The number of payments returned is based on the value in the Maximum Payments in Service field on the SF Institution Set attached to the student. This view does not include ITEM_DETAIL. See PeopleSoft Student Financials 9.0 PeopleBook, Setting Up Institution Sets, Defining Basic Institution Set Parameters.
SSF_ACCOUNT_VIEW = 03	Pending Financial Aid. The Anticipated Aid Display Date on the Valid Terms for Careers page controls the data that is displayed. See PeopleSoft Financial Aid 9.0 PeopleBook, Setting Up Your Financial Awarding Cycle, Establishing Careers and Programs, Defining Valid Terms for Careers.
SSF_ACCOUNT_VIEW = 04	Due Charges and Deposits by Term. This view does not have ITEM_DETAIL.

The following code is an example of the SSF_GET_STUDENT_ACCT_RESP message that the SSF_GET_STUDENT_ACCOUNT service operation transmits to the service caller:

```
<?xml version="1.0"?>
<SSF_GET_STUDENT_ACCT_RESP xmlns="http://xmlns.oracle.com/Enterprise/HCM/services">
  <STUDENT_ACCOUNT_SUMMARY>
    <EMPLID>SFSCE0001</EMPLID>
    <BUSINESS_UNIT/>
    <STRM/>
    <SSF_OVERALL_ACTBAL>2710</SSF_OVERALL_ACTBAL>
    <CURRENCY_CD>USD</CURRENCY_CD>
    <MSGSET>0</MSGSET>
    <MSGNUM>0</MSGNUM>
    <SSF_MSG_LONG/>
    <STUDENT_ACCOUNT_VIEW>
      <SSF_ACCOUNT_VIEW>01</SSF_ACCOUNT_VIEW>
      <SSF_VW_TOTAL_AMT>2710.00</SSF_VW_TOTAL_AMT>
      <SSF_VW_TOTAL_BAL>2710.00</SSF_VW_TOTAL_BAL>
      <CURRENCY_CD>USD</CURRENCY_CD>
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```
<MSGSET>0</MSGSET>
<MSGNUM>0</MSGNUM>
<SSF_MSG_LONG/>
<ITEM_SUMMARY>
  <EMPLID>SFSCE0001</EMPLID>
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  <DUE_DT>2013-08-04</DUE_DT>
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    <DUE_DT>2013-08-04</DUE_DT>
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    <SSF_BALANCE>333.34</SSF_BALANCE>
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    <SEL_GROUP/>
    <FEE_CD/>
    <COURSE_LIST/>
    <CRSE_ID/>
    <ADM_APPL_NBR/>
    <BILLING_CAREER/>
    <ITEM_TYPE>180000000002</ITEM_TYPE>
    <BILLING_DT>2013-08-01</BILLING_DT>
    <REF1_DESCR/>
    <SSF_TXN_DTL_TYPE>C</SSF_TXN_DTL_TYPE>
    <CURRENCY_CD>USD</CURRENCY_CD>
    <BUSINESS_UNIT_LOVDescrShort/>
    <STRM_LOVDescrShort>2013 Spr</STRM_LOVDescrShort>
    <INSTITUTION/>
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      <INSTITUTION_LOVDescrShort> </INSTITUTION_LOVDescrShort>
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  </ITEM_SUMMARY>
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    </STUDENT_ACCOUNT_SUMMARY>
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```


Fault Message: SSF_FAULT_RESP

If the service operation encounters an error condition, it responds with the SSF_FAULT_RESP message.

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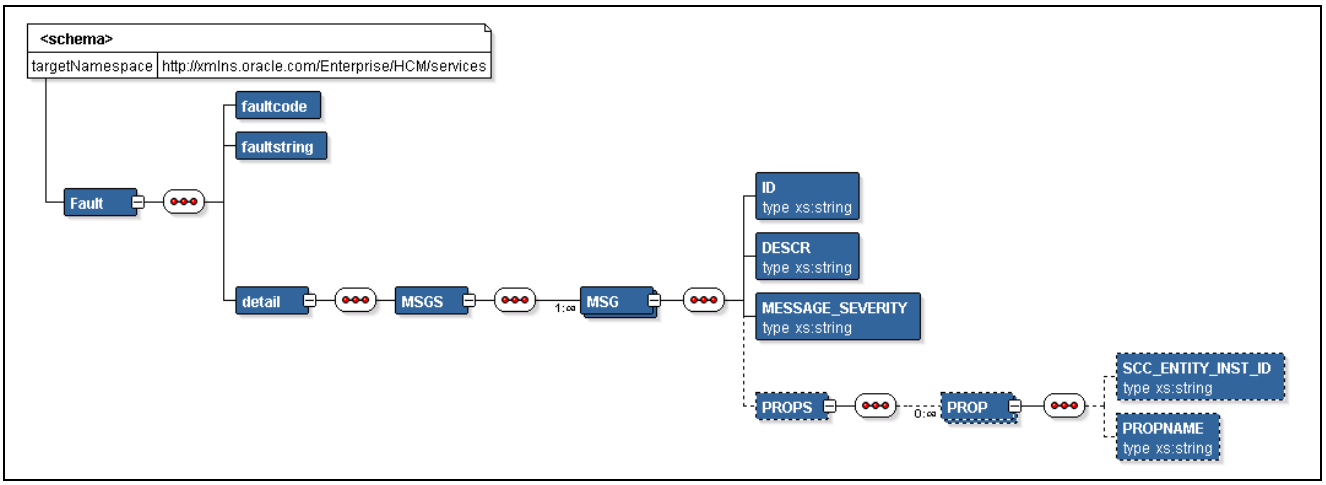

SSF_FAULT_RESP Message Parameters

The data returned by the service takes into account the Business Units defined for the student's Institution Set. Make sure you set up the self-service components that apply to this service. The service returns the same error encountered in Self Service if an Institution Set is not defined for the student's operator ID. In addition, the student's associated Institution Set must be service-enabled. Any data that you request for Business Units that are not part of the student's Institution Set cannot be retrieved.

The following code is an example of the SSF_FAULT_RESP message that the SSF_GET_STUDENT_ACCOUNT service operation transmits to the service caller:

```
<?xml version="1.0"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>Client</faultcode>
      <faultstring>An Error occurred processing this request (14098,286)</faultstring>
      <detail>
        <MSGS>
          <MSG>
            <ID>14872-9</ID>
            <DESCR>We are unable to display your account at this time.</DESCR>
            <MESSAGE_SEVERITY>E</MESSAGE_SEVERITY>
            <PROPS/>
          </MSG>
        </MSGS>
      </detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Post Installation Troubleshooting

Bundle 31. New

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This section discusses how to:

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

Verifying Web Service Security Settings

For the SSF_FINANCIALS 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 a web service, access the Provide Web Service page. Go to PeopleTools, Integration Broker, Web services, Provide Web Service.

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