SUN SEEBEYOND

eWAY™ ADAPTER FOR ORACLE APPLICATIONS USER'S GUIDE

Release 5.1.3

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Chapter 1

Introducing the Oracle Applications eWay

Welcome to the *Oracle Applications eWay Intelligent Adapter User's Guide*. This document includes information about installing, configuring, and using the Oracle Applications eWay Intelligent Adapter.

The Oracle Applications eWay Intelligent Adapter utilizes the Sun Java Composite Application Platform Suite™ to provide a comprehensive integration solution for the Oracle Applications Product Family included in Oracle release 11i. It provides added value to the Oracle suite by allowing pre-validation of data before it is uploaded to the Oracle database, and providing the ability to handle error conditions. These are important features, since data containing even the slightest error causes a transmission to fail at runtime.

What's in This Chapter

1.1 About Oracle Applications

The Oracle E-Business Suite 11i is a comprehensive enterprise resource planning (ERP) software package built upon Oracle's database technology. It is presented within an Internet environment, using online transaction processing to address the global requirements of today's typical enterprise.

The E-Business suite includes a large number of Product Families, grouped into software modules corresponding to what were once stand-alone computer systems used by individual departments. These Product Families are identified by their major business functions, such as:

- Financials
- Human Resources

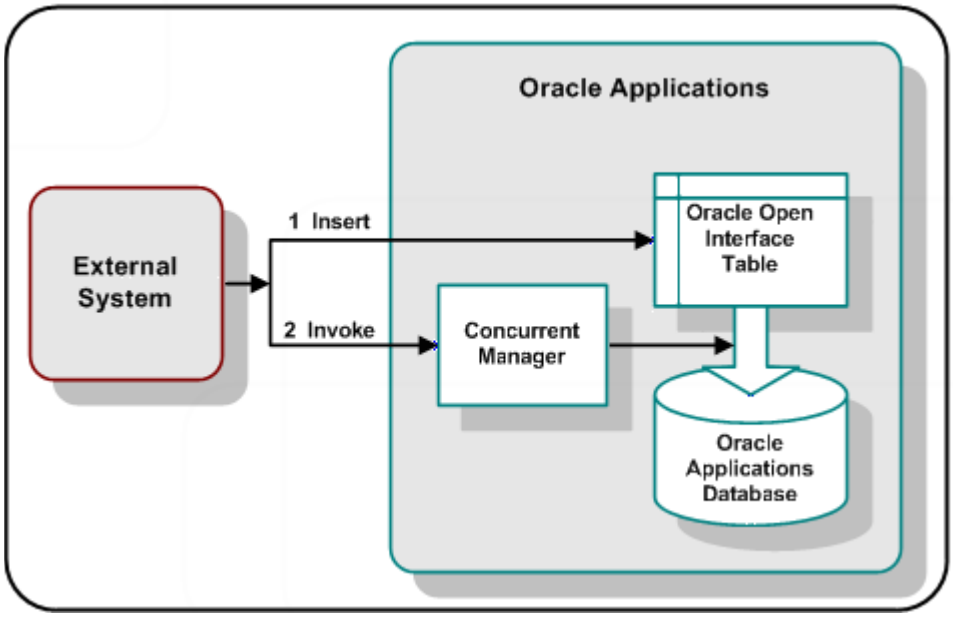
- Manufacturing
- Marketing
- Sales

These Product Families are integrated together to share a common database, allowing a company's various departments to quickly and easily share information and communicate with each other.

1.1.1 Oracle Applications Basic Operation

The basic architecture of an Oracle system contains a set of base objects which are held in highly normalized core tables within the Oracle database. A de-normalized view of these base objects is provided in a set of Open Interface Tables (OITs), also maintained in the database. Data is passed from the Open Interface Tables to the core tables under the control of the Concurrent Manager.

Figure 1 Basic Oracle Applications Operation



In a typical scenario, an operator schedules an import job by means of the Oracle front end, which initiates the following procedure:

1. Data is passed from the Open Interface Tables to the core tables under the control of Import Jobs scheduled by the Concurrent Manager.
2. It then invokes the Oracle Concurrent Manager, which:
   - Validates the data in the Open Interface Table, based on a set of stored SQL procedures.
   - Inserts the validated rows into the Oracle Applications Database.

This highly-simplified procedure is depicted in Figure 1. There are several limitations to this very basic scheme:

- Once data is in the Open Interface Table, it cannot be withdrawn or corrected.
- Data failing the validation process may be handled in different ways—some import scripts update the original rows with error codes, while other scripts log errors to a file, requiring user intervention.
- Only the default validation rules provided by Oracle are used in the validation process, and may not address specific customer requirements.
- There is no easy way to insert batches of data as a transactional unit—for example, where all inserts from a batch must succeed (if *any* fail, then *all* must fail).

1.2 About the Oracle Applications eWay

The Oracle Applications eWay provides a comprehensive integration solution for the Oracle Applications Product Family included in Oracle release 11i. It provides added value to the suite by allowing pre-validation of data before it is uploaded to the Oracle database, as well as providing the ability to handle error conditions. These are important features, since data which is even slightly erroneous causes a transmission to fail at runtime.

Oracle contains three types of Open Interfaces:

- API (PL/SQL)
- View
- Tables

The Oracle Applications eWay provides additional support for Open Interface Tables. Additionally, the eWay is highly customizable—allowing you to modify the validation rules or add your own customer-specific requirements for error handling and recovery. For example, you can choose to have records that fail an import remain in the OIT so that an operator can use the Oracle administration tools to amend and resubmit the data. Alternatively, you can have errors sent back through eGate to the calling application—or select a mixture of both, depending on the type of message.

Using the eWay, you can insert and update Oracle Applications with data from external systems using the eGate Enterprise Manager. Information can be sent either in real-time, delivering prompt event-driven performance, or in batch (store and forward) form. Error handling is provided through extensive pre-validation business logic. The following Oracle modules and Open Interfaces are currently supported:

Management Modules

- Purchasing
  - Purchase Order Import
  - Purchase Order Receiving
  - Purchase Order Requisition
- Inventory Management
  - Customer Items Interface

- Customer Items Cross-Reference Interface
- Cycle Count Entries Interface
- Item Import
- Item Revisions Import
- Replenishment Interface
- Transactions Interface

- Order Entry

Financial Modules

- Accounts Payable
- Accounts Receivable
  - Auto Invoice
  - Auto Lock
  - Customers
- Cash Management
  - Bank Statement
- Fixed Assets
  - Categories
  - Locations
  - Mass Additions
- General Ledger
  - Budget
  - Daily Rates
  - Journal

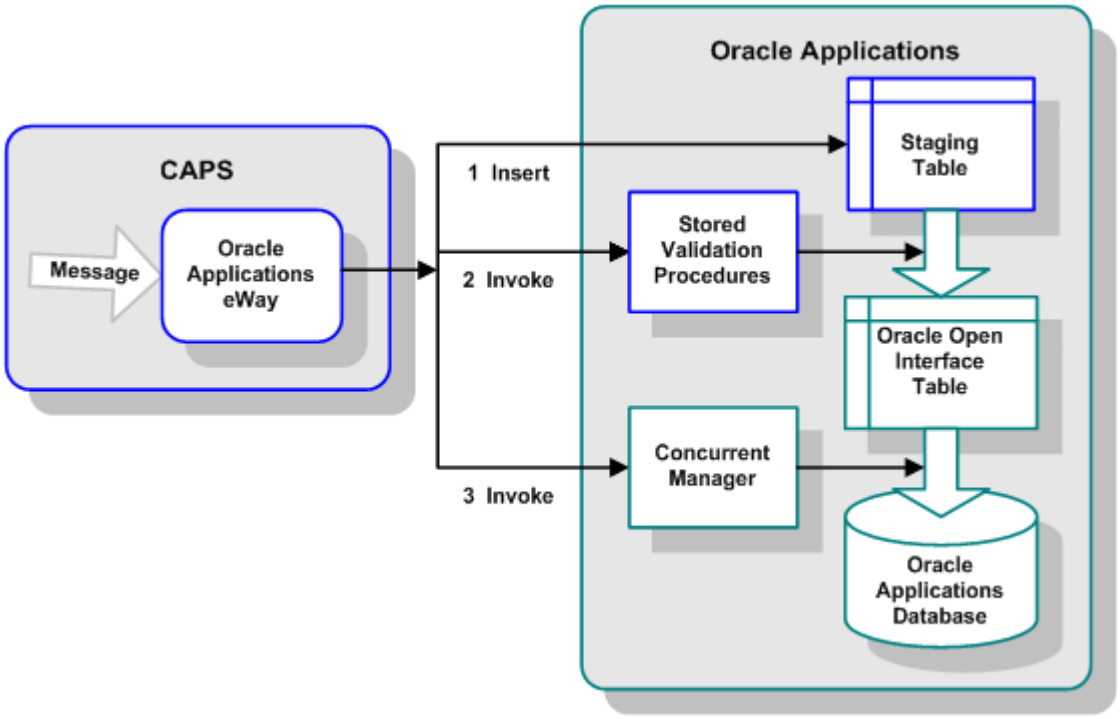
1.2.1 Oracle Applications eWay Basic Operation

When a message for Oracle Applications is triggered in JCE or BPEL, it proceeds as follows:

1. It inserts the data into a staging table contained within the Oracle database, following the OTD corresponding to the current Open Interface Table. For more information on the staging table, refer to **Staging Table Node** on page 60.
2. It pre-validates the data in the staging table by invoking stored procedures, also contained in the Oracle database. The eWay checks for and manages any errors, after which the validated rows are placed into the Interface Table.
3. It then initiates a standard Oracle validation by involving the Oracle Concurrent Manager, which validates the data in the Open Interface Table and stores the validated rows in the Oracle Applications Database.

This simplified procedure is depicted in Figure 2. A more detailed description, including the handling of data failing validation, is contained in **"Exchanging Data with Oracle Applications" on page 67**.

Figure 2 CAPS-to-Oracle Applications Operation



Disclaimer

The pre-validation scripts packaged with the eWay for the supported modules are rudimentary and do not cover all possible scenarios. Since the requirements from Oracle occasionally change and evolve, you may be required to provide additional data and/or parameters to ensure that the Concurrent Manager request completes successfully, without errors.

1.3 What's New in This Release

The Oracle Applications eWay includes the following changes and new features:

What's New in Version 5.1.3

- This is a maintenance release. No new features.

What's New in Version 5.1.2

- This is a maintenance release. No new features

New for Version 5.1.1

- **Version Control**: An enhanced version control system allows you to effectively manage changes to the eWay components.
- **Multiple Drag-and-Drop Component Mapping from the Deployment Editor**: The Deployment Editor now allows you to select multiple components from the Editor's component pane, and drop them into your Environment component.
- **Support for Runtime LDAP Configuration**: eWay configuration properties now support LDAP key values.
- **Connection Retry Support**: Allows you to specify the number of attempts to reconnect, and the interval between retry attempts, in the event of a connection failure.
- **Connectivity Map Generator**: Generates and links your Project's Connectivity Map components using a Collaboration or Business Process.

Many of these features are documented further in the *Sun SeeBeyond eGate Integrator User's Guide* or the *Sun SeeBeyond eGate Integrator System Administrator Guide*.

1.4 About This Document

This guide explains how to install, configure, and operate the Sun Java Composite Application Platform Suite™ Oracle Applications eWay Adapter, referred to as the Oracle Applications eWay throughout this guide.

1.4.1 What's in This Document

This document includes the following chapters:

- **Chapter 1: "Introducing the Oracle Applications eWay"** Provides an overview description of the product as well as high-level information about this document.
- **Chapter 2**: **"Installing the Oracle Applications eWay"** Describes the system requirements and provides instructions for installing the Oracle Applications eWay.
- **Chapter 3**: **"Configuring the Oracle Applications eWay"** Provides instructions for configuring the eWay to communicate with your legacy systems.
- **Chapter 4**: **"Pre-Validation Process"** Provides an overview of the pre-validation process used by the Oracle Applications eWay.
- **Chapter 5**: **"Using the OTD Wizard"** Provides information about .sag files and using the Oracle wizard.
- **Chapter 6**: **"Implementing the Sample Projects"**Provides instructions for installing and running the sample Projects.
- **Appendix A**: **"Error Codes"** Provides a description of error codes returned by the validation scripts.

1.4.2 Scope

This document describes the process of installing, configuring, and running the Oracle Application eWay. This document does not cover the Java methods exposed by this eWay. For information on the Java methods, download and view the Oracle Applications eWay Javadoc files from the Enterprise Manager.

1.4.3 Intended Audience

This guide is intended for experienced computer users who have the responsibility of helping to set up and maintain a fully functioning CAPS system. This person must also understand any operating systems on which CAPS is to be installed (Windows or UNIX) and must be thoroughly familiar with Windows-style GUI operations.

1.4.4 Text Conventions

The following conventions are observed throughout this document.

Table 1 Text Conventions

Text Convention	Used For	Examples
Bold	Names of buttons, files, icons, parameters, variables, methods, menus, and objects	▪ Click **OK**. ▪ On the **File** menu, click **Exit**. ▪ Select the **eGate.sar** file.
`Monospaced`	Command line arguments, code samples; variables are shown in ***bold italic***	`java -jar ***filename***.jar`
Blue bold	Hypertext links within document	See **Text Conventions** on page 14
Blue underlined	Hypertext links for Web addresses (URLs) or email addresses	http://www.sun.com

1.4.5 Screenshots

Depending on what products you have installed, and how they are configured, the screenshots in this document may differ from what you see on your system.

1.5 Related Documents

The following Sun Microsystem documents provide additional information about the CAPS product suite:

- *eGate Integrator User's Guide*
- *Sun Java* Composite Application Platform Suite *Installation Guide*

1.6 Sun Microsystems, Inc. Web Site

The Sun Microsystems web site is your best source for up-to-the-minute product news and technical support information. The site's URL is:

http://www.sun.com

1.7 Documentation Feedback

We appreciate your feedback. Please send any comments or suggestions regarding this document to:

CAPS_docsfeedback@sun.com

Chapter 2

Installing the Oracle Applications eWay

This chapter describes how to install the Oracle Applications eWay.

What's in This Chapter

2.1 Before You Install

Open and review the **Readme.txt** for the Oracle Applications eWay for any additional information or requirements, prior to installation. The **Readme.txt** is located on the installation CD-ROM.

2.2 Installing the Oracle Applications eWay

The Enterprise Manager, a web-based application, is used to select and upload eWays and add-on files during the installation process. The following section describes how to install the components required for this eWay.

Refer to the readme for the latest information on:

- Supported Operating Systems
- System Requirements
- External System Requirements

Note: *When the Repository is running on a UNIX operating system, the eWays are loaded from the Enterprise Manager running on a Windows platform connected to the Repository server using Internet Explorer.*

2.2.1 Installing the Oracle Applications eWay on an eGate Supported System

After you have installed Core Products, do the following:

1. From the Sun Java Composite Application Platform Suite Installer, click on the **Click to install additional products** link (on the Administration tab).
2. Expand the **eWay** option.
3. From **Select Sun Java Composite Application Platform Suite Products to Install**, select the products for your **Sun Java Composite Application Platform Suite** and include the following:
   - **FileeWay** (the File eWay is used by most sample Projects)
   - **Oracle ApplicationseWay**
   - eInsight (must be installed to use BPEL functionality)
4. Once you have selected all of your products, click **Next** in the top-right or bottom-right corner of the **Select Sun Java Composite Application Platform Suite Products to Install** box.
5. From the **Selecting Files to Install** box, locate and select your first product's SAR file. Once you have selected the SAR file, click **Next**. Follow this procedure for each of your products. The Installing Files window appears after the last SAR file has been selected.
6. From the **Installing Files** window, review the product list. If it is correct, Click **Install Products**. The Enterprise Manager starts the installation.
7. When your product's installation is completed, click on the prompt, "**When installation completes, click here to continue**."

To upload the Sun SeeBeyond eWay™ Adapter for Oracle Applications User's Guide, Help file, Javadoc, Readme, and sample Projects, do the following:

A. Expand the **Documentation** option.

B. Select **Oracle ApplicationseWayDocs.**

C. Click **Next** in the top-right or bottom-right corner of the **Select Sun Java Composite Application Platform Suite Products to Install** box.

Adding the eWay to an Existing Sun Java Composite Application Platform Suite Installation

It is possible to add the eWay to an existing Sun Java Composite Application Platform Suite installation.

Steps required to add an eWay to an Existing CAPS installation include:

1. Complete steps 1 through 6 on **Installing the Oracle Applications eWay on an eGate Supported System** on page 17.
2. Open the Enterprise Designer and select **Update Center** from the Tools menu. The Update Center Wizard appears.

3 For Step 1 of the wizard, simply click **Next**.

4 For Step 2 of the wizard, click the **Add All** button to move all installable files to the **Include in Install** field, then click **Next**.

5 For Step 3 of the wizard, wait for the modules to download, then click **Next**.

6 The wizard's Step 4 window displays the installed modules. Review the installed modules and click **Finish.**

When prompted, restart the IDE (Integrated Development Environment) to complete the installation.

2.3 After You Install

If you choose to use the OCI driver, you must copy the **classes12.jar** file from the Oracle client to the Logical Host.

Oracle 10*g* users must copy the **ojdbc14.jar** file from the Oracle client, and rename it to the **classes12.jar** file before copying into the Logical Host.

Note: *Be sure to create a back-up of the original classes12.jar file before applying these changes.*

Ways to load the classes12.jar file include:

- Loading the file using Enterprise Designer
- Copying the file directly into the Logical Host

2.4 Extracting the Sample Projects and Javadocs

The Oracle Applications eWay includes sample Projects and Javadocs. The sample Projects are designed to provide you with a basic understanding of how certain database operations are performed using the eWay, while Javadocs provide a list of classes and methods exposed in the eWay.

Steps to extract the Javadoc include:

1 Click the Documentation tab of the Suite Installer, then click the Add-ons tab.

2 Click the Oracle Applications eWay Intelligent Adapter link. Documentation for the Oracle Applications eWay appears in the right pane.

3 Click the icon next to **Javadoc** and extract the ZIP file.

4 Open the index.html file to view the Javadoc.

Steps to extract the Sample Projects include:

1 Click the Documentation tab of the Suite Installer, then click the Add-ons tab.

2 Click the Oracle Applications eWay Intelligent Adapter link. Documentation for the Oracle Applications eWay appears in the right pane.

3 Click the icon next to **Sample Projects** and extract the ZIP file. Note that the **Oracle Applications_eWay_Sample.zip** file contains two additional ZIP files for each sample Project.

Refer to **Importing a Sample Project** on page 69 for instructions on importing the sample Project into your repository via the Enterprise Designer.

2.5 ICAN 5.0 Project Migration Procedures

This section describes how to transfer your current ICAN 5.0 Projects to the Sun Java Composite Application Platform Suite 5.1.3. To migrate your ICAN 5.0 Projects to the Sun Java Composite Application Platform Suite 5.1.3, do the following:

Export the Project

1 Before you export your Projects, save your current ICAN 5.0 Projects to your Repository.

2 From the Project Explorer, right-click your Project and select **Export** from the shortcut menu. The Export Manager appears.

3 Select the Project that you want to export in the left pane of the Export Manager and move it to the Selected Projects field by clicking the **Add to Select Items** (arrow) button, or click **All** to include all of your Projects.

4 In the same manner, select the Environment that you want to export in the left pane of the Export Manager and move it to the Selected Environments field by clicking the **Add to Select Items** (arrow) button, or click **All** to include all of your Environments.

5 Browse to select a destination for your Project ZIP file and enter a name for your Project in the **ZIP file** field.

6 Click **Export** to create the Project ZIP file in the selected destination.

Install Sun Java Composite Application Platform Suite 5.1.3

7 Install the Sun Java Composite Application Platform Suite 5.1.3, including all eWays, libraries, and other components used by your ICAN 5.0 Projects.

8 Start the Sun Java Composite Application Platform Suite 5.1.3 Enterprise Designer.

Import the Project

9 From the Sun Java Composite Application Platform Suite 5.1.3 Enterprise Designer's Project Explorer tree, right-click the Repository and select **Import Project** from the shortcut menu. The Import Manager appears.

10 Browse to and select your exported Project file.

11 Click **Import**. A warning message, **"Missing APIs from Target Repository**," may appear at this time. This occurs because various product APIs were installed on the ICAN 5.0 Repository when the Project was created, that are not installed on the Sun

Java Composite Application Platform Suite 5.1.3 Repository. These APIs may or may not apply to your Projects. You can ignore this message if you have already installed all of the components that correspond to your Projects. Click **Continue** to resume the Project import.

12 Close the Import Manager after the Project is successfully imported.

Deploy the Project

13 A new Deployment Profile must be created for each of your imported Projects. When a Project is exported, the Project's components are automatically *"checked in"* to Version Control to write-protected each component. These protected components appear in the Explorer tree with a red padlock in the bottom-left corner of each icon. Before you can deploy the imported Project, the Project's components must first be *"checked out"* of Version Control from both the Project Explorer and the Environment Explorer. To *"check out"* all of the Project's components, do the following:

- A From the Project Explorer, right-click the Project and select **Version Control > Check Out** from the shortcut menu. The Version Control - Check Out dialog box appears.
- B Select **Recurse Project** to specify all components, and click **OK**.
- C Select the Environment Explorer tab, and from the Environment Explorer, right-click the Project's Environment and select **Version Control > Check Out** from the shortcut menu.
- D Select **Recurse Environment** to specify all components, and click **OK**.

14 If your imported Project includes File eWay External Systems in the Environment, the Project's Environment must be reconfigured prior to deploying the Project. To reconfigure your Environment, do the following:

- A The properties file for the File External System now includes both inbound and outbound properties. If your Environment includes both inbound and outbound File External Systems, these can now be combined. Delete all but one of the File External Systems.
- B From the Environment Explorer tree, right-click your remaining File External System, and select **Properties** from the shortcut menu. The Properties Editor appears.
- C Set the inbound and outbound directory values, and click **OK**.

15 Deploy your Projects.

2.5.1 Database Migration Issues

Projects imported from previous ICAN versions can potentially display different results, depending on whether the 5.0.x Java Collaboration Definition (JCD) included multiple (insert/update/delete) operations. This only affects non-XA transactions. If you are using an XA transaction, then you can skip this section.

Example:

In 5.0.x, five new records are to be inserted into a table. If one of the records fails to insert (like having a duplicate key), all five records will not be inserted.

In 5.1.3, five new records are to be inserted into a table. If one of the records fails to insert (like having a duplicate key), the other four records will be inserted.

In order to achieve the same result as in 5.0.x ICAN versions, you can choose one of the methods below.

1. In the Connectivity Map, delete the link to the database external application, then reconnect the link and select XA.
2. Fill in the XA property for the database external system under the Environment.
3. Rebuild the Project.

If you want to keep the non-XA transaction, the following changes are required:

1. Add a **setAutoCommit()** method and set it to "false" before inserting any records. If you are using a while loop, then add this method before entering the loop.
2. Add a **Commit()** method after inserting all the records. If you are using a while loop, add this method after exiting the loop.
3. Add a Try/Catch Block. The Try Block contains your current JCD code.
4. Add The **rollback()** method to the Catch Block. This method rolls back any changes that might have taken place prior to the failure.
5. Rebuild the Project.

JCD Sample Code (new code in BOLD):

```
public class jcdAutoCommitManual
{
public com.stc.codegen.logger.Logger logger;
public com.stc.codegen.alerter.Alerter alerter;
public com.stc.codegen.util.CollaborationContext collabContext;
public com.stc.codegen.util.TypeConverter typeConverter;
public void receive( com.stc.connector.appconn.file.FileTextMessage
input, uniqueTable.UniqueTableOTD UniqueTable_1 )
        throws Throwable
    {
        try {
            UniqueTable_1.setAutoCommit( false );
            UniqueTable_1.getTEST().insert();
            UniqueTable_1.getTEST().setFIRSTNAME( "Rex" );
            UniqueTable_1.getTEST().setLASTNAME( "Chan1" );
            UniqueTable_1.getTEST().insertRow();
            UniqueTable_1.getTEST().setFIRSTNAME( "Rex" );
            UniqueTable_1.getTEST().setLASTNAME( "Chan2" );
            UniqueTable_1.getTEST().insertRow();
            UniqueTable_1.getTEST().setFIRSTNAME( "Rex" );
            UniqueTable_1.getTEST().setLASTNAME( "Chan1" );
            UniqueTable_1.getTEST().insertRow();
            UniqueTable_1.commit();
        } catch ( java.sql.SQLException sqle ) {
            UniqueTable_1.rollback();
        }
    }

}
```

2.6 Installing Enterprise Manager eWay Plug-Ins

The **Sun SeeBeyond Enterprise Manager** is a Web-based interface that allows you to monitor and manage your Composite Application Platform Suite applications. The Enterprise Manager requires an eWay specific "plug-in" for each different eWay you install. These plug-ins enable the Enterprise Manager to target specific alert codes for each eWay type, as well as to start and stop the inbound eWays.

The *Sun Java Composite Application Platform Suite Installation Guide* describes how to install Enterprise Manager. The *Sun SeeBeyond eGate Integrator System Administration Guide* describes how to monitor servers, Services, logs, and alerts using the Enterprise Manager and the command-line client.

The **eWay Enterprise Manager plug-ins** are available from the **List of Components to Download** under the Composite Application Platform Suite Installer's **DOWNLOADS** tab.

There are two ways to add the eWay Enterprise Manager plug-ins:

- From the **Sun SeeBeyond Enterprise Manager**
- From the **Sun Java Composite Application Platform Suite Installer**

To add plug-ins from the Enterprise Manager

1. From the **Enterprise Manager**'s Explorer toolbar, click **configuration**.
2. Click the **Web Applications Manager** tab, go to the **Auto-Install from Repository** tab, and connect to your Repository.
3. Select the application plug-ins you require, and click **Install**. The application plug-ins are installed and deployed.

To add plug-ins from the Sun Java Composite Application Platform Suite Installer

1. From the **Sun Java Composite Application Platform Suite Installer's Download tab**, select the Plug-Ins you require and save them to a temporary directory.
2. From the **Enterprise Manager**'s Explorer toolbar, click **configuration**.
3. Click the **Web Applications Manager** tab and go to the **Manage Applications** sub-tab.
4. Browse for and select the WAR file for the application plug-in that you downloaded, and click **Deploy**. The plug-in is installed and deployed.

Viewing Alert Codes

You can view and delete alerts using the Enterprise Manager. An alert is triggered when a specified condition occurs in a Project component. The purpose of the alert is to warn the administrator or user that a condition has occurred.

To View the eWay Alert Codes

1. Add the eWay Enterprise Manager plug-in for this eWay.
2. From the **Enterprise Manager**'s Explorer toolbar, click **configuration**.

3 Click the **Web Applications Manager** tab and go to the **Manage Alert Codes** tab.

4 Browse for and select the Alert Properties File for the application plug-in that you added. The Alert Properties Files are located in the **alertcodes** folder of your Sun Java Composite Application Platform Suite installation directory.

5 Click **Deploy**. The available alert codes for your application are displayed under **Results**. A listing of available alert codes is displayed in Table 2.

Table 2 Alert Codes for the Oracle Applications eWay

Alert Code\Description	Description Details	User Actions
DBCOMMON-CONNECT-FAILED000001=Failed to connect to database {0} on host {1}. Reason: The Pooled connection could not be allocated: [{2}]	Occurs during the initial database connection.	▪ Database is down; start your database. ▪ External configuration information is invalid. You may need to verify the following: ◆ Server name ◆ Database name ◆ User ◆ Password ◆ Port
DBCOMMON-CONNECT-FAILED000002=Operation failed because of a database connection error. Reason: [{0}]	Occurs while retrieving a connection from the database or the pool.	▪ Verify that the database has not terminated with unexpected errors.
DBCOMMON-CONNECT-FAILED000005=Connection handle not usable. Reason:[{0}]	The connection in the pool is stale and is not usable.	▪ Probably a database restart occurred causing the connection to be stale, retry the operation after the database is up.
DBCOMMON-XARESOURCE-FAILED000001=Unable to get XAResource for the database. Reason: [{0}]	Could not obtain XAResource for the connection.	▪ Check if the database supports XA and has been configured for Distributed Transactions.
DBCOMMON-XACONNECT-FAILED000001=Failed to connect to database {0} on host {1}. The XA connection could not be allocated: Reason [{2}]	Occurs during the initial database connection.	▪ Check if the database is configured for XA and if the database is running. ▪ External configuration information is invalid. You may need to verify the following: ◆ Server name ◆ Database name ◆ User ◆ Password ◆ Port
DBCOMMON-XASTART-FAILED000001=Unable to perform XAStart for the connection. Reason: [{0}]	A connection error has occurred which caused XASTART to fail.	▪ Check if the database is running, and that there are no network issues.

Alert Code\Description	Description Details	User Actions
DBCOMMON-XAEND-FAILED000001=XAEnd failed. Reason: [{0}]	Error occurred during commit on XA connection.	▪ Look for the detailed error mentioned in the alert for the appropriate action.
DBCOMMON-CANNOT-GET-ISOLATION-LEVEL=Unable to get isolationLevel for the transaction. Reason: [{0}]	Could not read transaction isolation information of the connection.	▪ Transaction isolation is one of the following constants: ♦ Connection.TRANSACTION_READ_UNCOMMITTED ♦ Connection.TRANSACTION_READ_COMMITTED ♦ Connection.TRANSACTION_REPEATABLE_READ ♦ Connection.TRANSACTION_SERIALIZABLE ♦ Connection.TRANSACTION_NONE

For information on Managing and Monitoring alert codes and logs, see the *Sun SeeBeyond eGate Integrator System Administration Guide.*

Chapter 3

Configuring the Oracle Applications eWay

The Oracle Applications eWay contains a unique set of properties that are configurable from the Project's Connectivity Map during design time. When you connect an external application—such as an eWay—with a Service on the Connectivity Map, Enterprise Designer automatically assigns the eWay to the link, allowing modification of exposed properties.

The Oracle Applications eWay includes two outbound modes—one for XA transactions and one for non-XA transactions. The properties for each of these modes are configured in the Connectivity Map as well as the Environment Explorer.

The Outbound Oracle Applications XA eWay manages XA transactions up to the point where the Interface Table is populated with data. When the Concurrent Manager is invoked, the transaction has already passed to Oracle Applications and is no longer under the control of the eWay.

What's in This Chapter

3.1 Creating and Configuring the Oracle Applications eWay

All eWays contain a set of parameters with properties that are unique to that eWay type. The Oracle Applications eWay properties are modified from these locations:

- **Connectivity Map**: These parameters most commonly apply to a specific component eWay, and may vary from other eWays (of the same type) in the Project.
- **Environment Explorer**: These parameters are commonly global, applying to all eWays (of the same type) in the Project. The saved properties are shared by all eWays in the Oracle Applications External System window.
- **Collaboration or Business Process**: Oracle Applications eWay properties may also be set from your Collaboration or Business process, in which case the settings will override the corresponding properties in the eWay's configuration file. Any properties that are not overridden retain their configured default settings.

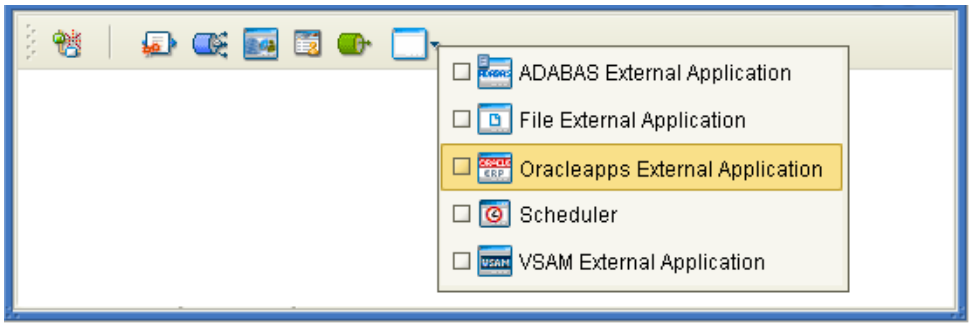
3.1.1 Selecting Oracle Applications as the External Application

To create a Oracle Applications eWay you must first create a Oracle Applications External Application in your Connectivity Map. Oracle Applications eWays are located between a Oracle Applications External Application and a Service. Services are containers for Collaborations, Business Processes, eTL processes, and so forth.

To create the Oracle Applications External Application

1. From the Connectivity Map toolbar, click the **External Applications** icon.
2. Select the **Oracle Applications External Application** from the menu (see Figure 3). The selected Oracle Applications External Application icon now appears on the Connectivity Map toolbar.

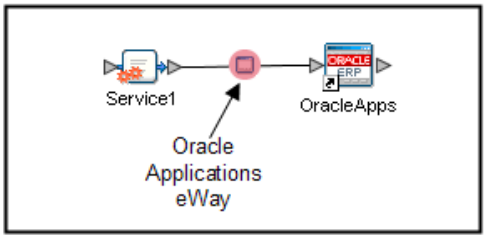
Figure 3 External Application menu



3. Drag the new **Oracle Applications External Application** from the toolbar onto the Connectivity Map canvas. This icon now represents an external Oracle Applications system.

From the Connectivity Map, you can associate (bind) the External Application to the Service to establish an eWay (see Figure 4).

Figure 4 eWay Location



When Oracle Applications is selected as the External Application, it automatically applies the default Oracle Applications eWay properties, provided by the OTD, to the eWay that connects it with the Service. These properties can then be or modified for your specific system using the **Properties Editor**.

3.1.2 Configuring the Oracle Applications eWay Properties

A Project's eWay properties can be modified after the eWay has been established in the Connectivity Map and the Environment has been created.

Configuring the Oracle Applications eWay (Connectivity Map) Properties

1. From the **Connectivity Map**, double click the eWay icon located in the link between the associated External Application and the Service.
2. The eWay **Properties Editor** appears with a template containing the Oracle Applications eWay Connectivity Map properties. Make any necessary changes to the property values and click **OK** to save the settings.

Configuring the Oracle Applications eWay (Environment Explorer) Properties

1. From the **Environment Explorer** tree, right-click the Oracle Applications External System. Select **Properties** from the shortcut menu. The **Properties Editor** opens with the Oracle Applications eWay Environment properties.
2. Make any necessary changes to the Environment property values, and click **OK** to save the settings.

3.1.3 Using the Properties Editor

Modifications to the eWay configuration properties are made from the Oracle Applications eWay **Properties Editor**.

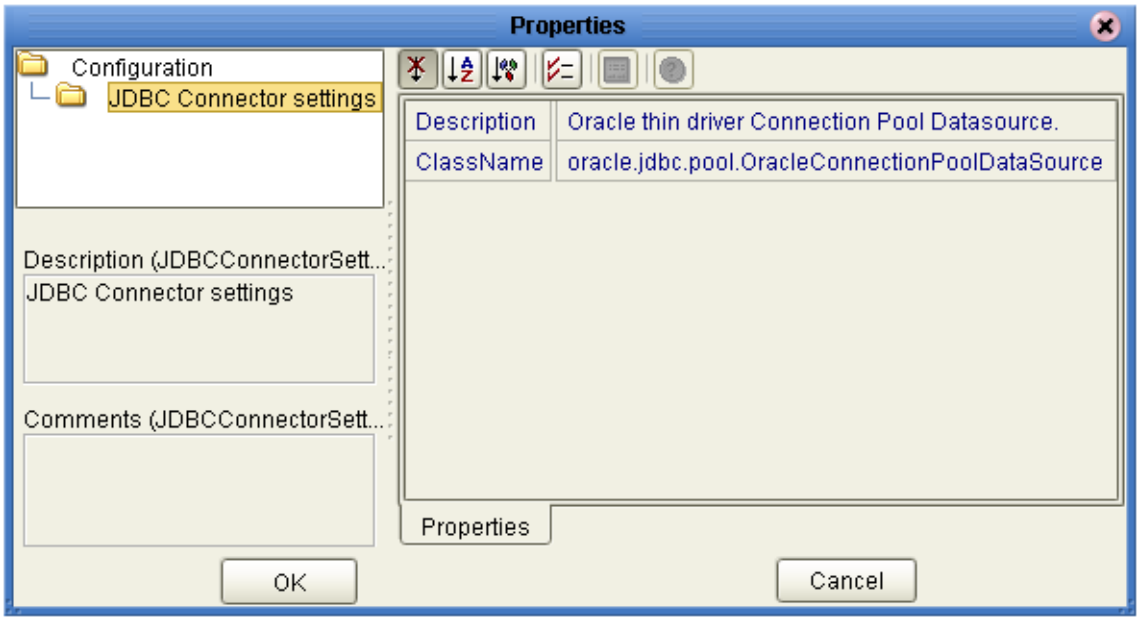
A description of each property is displayed in the **Description** pane when it is selected. This provides a brief explanation of the required settings or options.

The **Comments** pane provides an area to record notes and information regarding the currently selected property. These comments are saved when you close the editor.

Modifying the Default eWay Configuration Properties

1. From the Connectivity Map or the Environment Explorer, open the Properties Editor to the Oracle Applications eWay default properties.
2. From the upper-right pane of the Properties Editor, select a subdirectory of the configuration directory. The parameters contained in that subdirectory are now displayed in the Properties pane of the Properties Editor. For example, if you click on the **JDBC Connector settings** subdirectory, the editable parameters are displayed in the right pane (see Figure 5).

Figure 5 Properties Editor -- Oracle Applications Properties



3 Click on any property field to make it editable. For example, click on the **class** property to edit the class value. If a property value is true/false or multiple choice, the field displays a submenu of property options.

4 Click on the ellipsis (...) in the properties field to open a separate configuration dialog box. This is helpful for large values that cannot be fully displayed in the parameter's property field. Enter the property value in the dialog box and click **OK**. The value is now displayed in the property field.

5 After modifying the configuration properties, click **OK** to close the Properties Editor and save your changes.

3.2 Oracle Applications eWay Connectivity Map Properties

The Oracle Applications eWay configuration parameters, accessed from the Connectivity Map, are organized into the following sections:

Properties in the Outbound eWay

The **JDBC Connector Settings** section of the Oracle Applications Connectivity Map properties contains the top-level parameters displayed in Table 3.

Table 3 Outbound Connectivity Map JDBC Connector Settings

Name	Description	Required Value
Description	Specifies the description for the database.	A valid string. The default is **Oracle thin driver Connection Pool Datasource**.
ClassName	Specifies the Java class in the JDBC driver that is used to implement the ConnectionPoolDataSource interface.	A valid class name. The default value is **oracle.jdbc.pool.OracleConnectionPoolDataSource**.

Properties in the Outbound eWay with XA Support

The **JDBC Connector Settings** section of the Oracle Applications Connectivity Map properties contains the top-level parameters displayed in Table 4.

Table 4 Outbound with XA Support JDBC Connector Settings

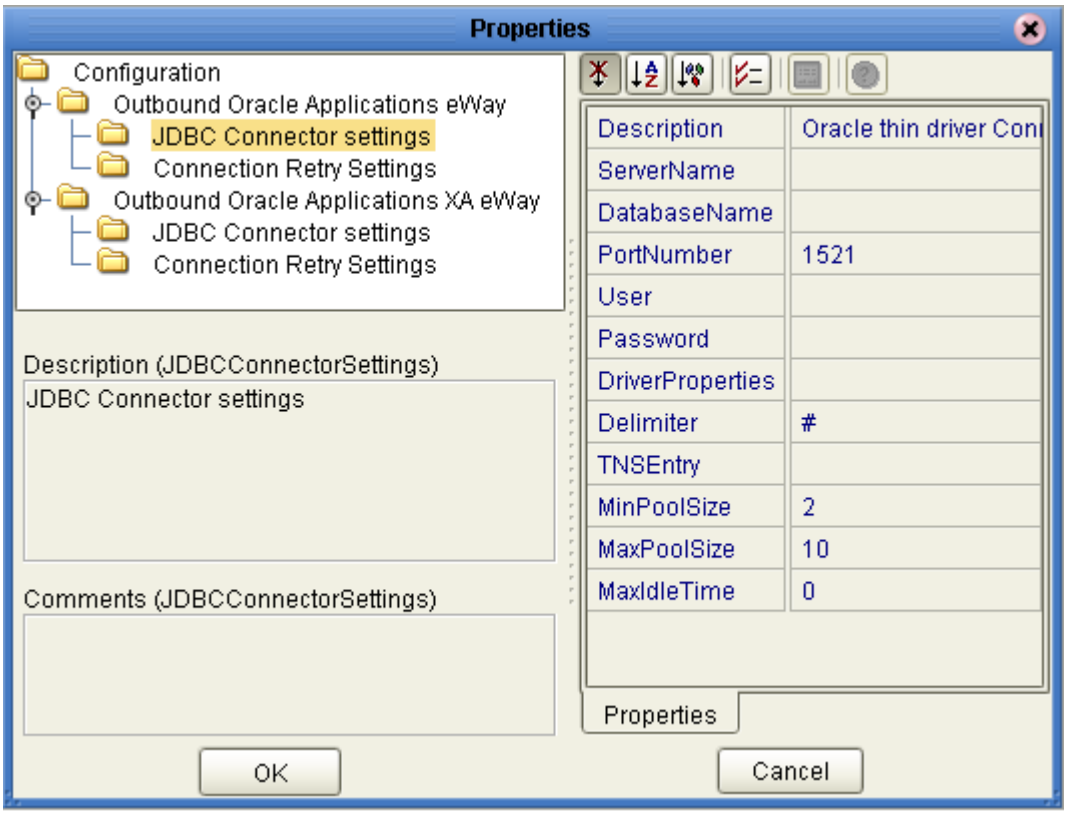
Name	Description	Required Value
Description	Specifies the description for the database.	A valid string. The default is **Oracle thin driver XA Datasource**.
ClassName	Specifies the Java class in the JDBC driver that is used to implement the ConnectionPoolDataSource interface.	A valid class name. The default value is **oracle.jdbc.xa.client.OracleXADataSource**.

3.3 Oracle Applications eWay Environment Configuration Properties

The Oracle Applications eWay configuration parameters, accessed from the Environment Explorer tree, are organized into the following sections:

- **Outbound Oracle eWay Properties** on page 30
- **Outbound Oracle eWay Properties with XA support** on page 32

Figure 6 Oracle Applications eWay Environment Configuration



3.3.1 Outbound Oracle eWay Properties

The Outbound Oracle Applications eWay properties, accessed from the Environment Explorer tree, are organized into the following sections:

- **JDBC Connector Settings** on page 30
- **Connection Retry Settings** on page 31

JDBC Connector Settings

The **JDBC Connector Settings** section of the Outbound Oracle Applications Environment contains the top-level parameters displayed in Table 5.

Table 5 Outbound eWay Environment JDBC Connector Settings

Name	Description	Required Value
Description	Enter a description for the database.	A valid string.
ServerName	Specifies the host name of the external database server.	Any valid string.
DatabaseName	Specifies the name of the database instance used on the Server.	Any valid string.

Table 5 Outbound eWay Environment JDBC Connector Settings

Name	Description	Required Value
PortNumber	Specifies the I/O port number on which the server is listening for connection requests.	A valid port number. The default is 1521.
User	Specifies the user name that the eWay uses to connect to the database.	Any valid string.
Password	Specifies the password used to access the database.	Any valid string.
DriverProperties	Use the JDBC driver that is shipped with this eWay. Often times the DataSource implementation needs to execute additional methods to assure a connection. You must identify the additional methods in the Driver Properties.	Any valid delimiter. Valid delimiters are: "<method-name-1>#<param-1>#<param-2>##.....<param-n>##<method-name-2>#<param-1>#<param-2>#.....<param-n>##.....##". For example: to execute the method setURL, give the method a String for the URL "setURL#<url>##".
Delimiter	This is the delimiter character to be used in the DriverProperties prompt.	The default is #.
TNSEntry	Specifies the TNS name for the Oracle instance specified in TNSNAMES.ORA. If a TNS name is specified, then the OCI driver is used, which further requires installation of the Oracle client. If a TNS name is not specified, then the thin driver is used.	A valid TNS name if using the OCI driver; otherwise do not enter any value.
MinPoolSize	The minimum number of physical connections the pool keeps available at all times. 0 (zero) indicates that there are no physical connections in the pool and new connections are created as needed.	A valid numeric value. The default is 2.
MaxPoolSize	The maximum number of physical connections the pool keeps available at all times. 0 (zero) indicates that there is no maximum.	A valid numeric value. The default is 10.
MaxIdleTime	The maximum number of seconds that a physical connection may remain unused before it is closed. 0 (zero) indicates that there is no limit.	A valid numeric value.

Connection Retry Settings

The **Connection Retry Settings** section of the Outbound Oracle Applications Environment contains the top-level parameters displayed in Table 6.

Table 6 Outbound eWay Environment Connection Retry Settings

Name	Description	Required Value
ConnectionRetries	Specifies the number of retries to establish a connection with the Oracle database upon a failure to acquire one.	An integer indicating the number of attempts allowed to establish a connection. The configured default is **0**.
ConnectionRetry Interval	Specifies the configured length of the pause before each reattempt to access the destination file. This property is used in conjunction with the property **ConnectionRetries**.	An integer indicating the configured length of the time (in milliseconds) before each reattempt to access the destination file. The configured default is **1000** (1 second).

3.3.2 Outbound Oracle eWay Properties with XA support

The Outbound Oracle Applications eWay properties with XA support, accessed from the Environment Explorer tree, are organized into the following sections:

- **JDBC Connector Settings (with XA support)** on page 32
- **Connection Retry Settings (with XA support)** on page 33

JDBC Connector Settings (with XA support)

The **JDBC Connector Settings** section of the Outbound XA Oracle Applications Environment contains the top-level parameters displayed in Table 7.

Table 7 Outbound XA eWay Environment JDBC Connector Settings

Name	Description	Required Value
Description	Enter a description for the database.	A valid string.
ServerName	Specifies the host name of the external database server.	Any valid string.
PortNumber	Specifies the I/O port number on which the server is listening for connection requests.	A valid port number. The default is 1521.
DatabaseName	Specifies the name of the database instance used on the Server.	Any valid string.
User	Specifies the user name that the eWay uses to connect to the database.	Any valid string.
Password	Specifies the password used to access the database.	Any valid string.

Table 7 Outbound XA eWay Environment JDBC Connector Settings

Name	Description	Required Value
DriverProperties	Use the JDBC driver that is shipped with this eWay. Often times the DataSource implementation needs to execute additional methods to assure a connection. You must identify the additional methods in the Driver Properties.	Any valid delimiter. Valid delimiters are: "<method-name-1>#<param-1>#<param-2>##.....<param-n>##<method-name-2>#<param-1>#<param-2>#.....<param-n>##.....##". For example: to execute the method setURL, give the method a String for the URL "setURL#<url>##".
Delimiter	This is the delimiter character to be used in the DriverProperties prompt.	The default is #.
TNSEntry	Specifies the TNS name for the Oracle instance specified in TNSNAMES.ORA. If a TNS name is specified, then the OCI driver is used, which further requires installation of the Oracle client. If a TNS name is not specified, then the thin driver is used.	A valid TNS name if using the OCI driver; otherwise do not enter any value.
MinPoolSize	The minimum number of physical connections the pool keeps available at all times. 0 (zero) indicates that there are no physical connections in the pool and new connections are created as needed.	A valid numeric value. The default is 2.
MaxPoolSize	The maximum number of physical connections the pool keeps available at all times. 0 (zero) indicates that there is no maximum.	A valid numeric value. The default is 10.
MaxIdleTime	The maximum number of seconds that a physical connection may remain unused before it is closed. 0 (zero) indicates that there is no limit.	A valid numeric value.

Connection Retry Settings (with XA support)

The **Connection Retry Settings** section of the Outbound XA Oracle Applications Environment contains the top-level parameters displayed in Table 8.

Table 8 Outbound XA eWay Environment Connection Retry Settings

Name	Description	Required Value
ConnectionRetries	Specifies the number of retries to establish a connection with the Oracle database upon a failure to acquire one.	An integer indicating the number of attempts allowed to establish a connection. The configured default is **0**.

Table 8 Outbound XA eWay Environment Connection Retry Settings

Name	Description	Required Value
ConnectionRetry Interval	Specifies the configured length of the pause before each reattempt to access the destination file. This property is used in conjunction with the property **ConnectionRetries**.	An integer indicating the configured length of the time (in milliseconds) before each reattempt to access the destination file. The configured default is **1000** (1 second).

Chapter 4

Pre-Validation Process

This chapter provides an overview of the pre-validation process used by the Oracle Applications eWay. You can modify the pre-validation scripts as required to match your business rules. Brief descriptions of the error codes returned by the scripts, are found in **Appendix A "Error Codes" on page 93**.

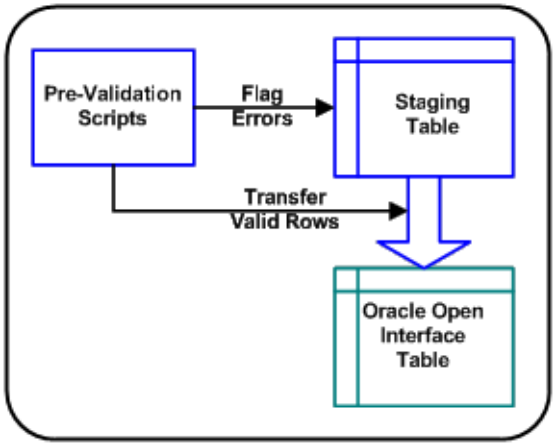
Note: *The Sun SeeBeyond Oracle Application scripts provided are intended to be used as a template or skeleton. You may need to modify these scripts to satisfy your own environment or requirements. These scripts have been tested successfully in the Sun SeeBeyond environment. See the Oracle Applications eWay Readme for more information.*

What's in This Chapter

4.1 Overview

Each of the Oracle Applications modules is divided into submodules, each representing a logical division of workflow. Each submodule uses at least one corresponding set of tables and scripts, as shown in **Figure 7 on page 36**.

Figure 7 Pre-Validation Subsystem



4.1.1 Pre-Validation Scripts

For Open Interfaces for which pre-validation scripts have been supplied, the SQL files shipped with the eWay are sufficient for you to create a working Project. For Open Interfaces for which pre-validation scripts are not currently available, a template XML file (**templateXml.xml**) is supplied. Use this file to build your own pre-validation package. The procedure for you to follow is given in **"Building a Custom Pre-Validation Package" on page 49**.

Disclaimer

The pre-validation scripts packaged with the eWay for the supported modules are rudimentary and do not cover all possible scenarios. Since the requirements from Oracle occasionally change and evolve, you may be required to provide additional data and/or parameters to ensure that the Concurrent Manager request completes successfully and without errors. Pre-validation scripts have been tested in 11.5.3 only.

4.1.2 Pre-Validation Procedures

Common Procedures

All pre-validation script packages (*_pkg.sql) contain the following procedures.

Table 9 Common Procedures

Procedure	Purpose
Initialize_Profile	Initializes the table for sharing to avoid running multiple instances by different users.
TidyUp	Updates sb_pass_or_fail columns in the staging table from INTERMEDIATE to PASS for records that were not marked as failed by the pre-validation rules.
Validate	The main validation procedure which calls the procedures that perform the pre-validations for the Interface Table.

4.2 Manufacturing Module

The Manufacturing module is divided into the following sub-modules:

- **"Inventory Module" on page 37**
- **"Purchase Order Import Module" on page 40**
- **"Order Entry Module" on page 41**

Each submodule uses at least one corresponding set of tables and scripts, as depicted in **Figure 7 on page 36**

4.2.1 Inventory Module

The Oracle Inventory module works with other Oracle Manufacturing modules to provide a complete set of transactions and reports for maintaining inventory control.

Customer Items

Oracle Interface Table

Oracle provides the following Interface Table for Customer Items:

- mtl_ci_interface

SeeBeyond Staging Table

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Tables listed above:

- sb_mtl_ci_interface

Pre-Validation Script

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following file:

- sb_validate_cust_items_pkg.sql

Customer Items Cross-Reference

Oracle Interface Table

Oracle provides the following Interface Table for Customer Item Cross-References:

- mtl_ci_xrefs_interface

SeeBeyond Staging Table

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Tables listed above:

- sb_mtl_ci_xrefs_interface

Pre-Validation Script

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following file:

- sb_validate_ci_xrefs_pkg.sql

Cycle Count Entries

Oracle Interface Table

Oracle provides the following Interface Table for Cycle Count Entries:

- mtl_cc_entries_interface

SeeBeyond Staging Table

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_mtl_cc_entries_interface

Pre-Validation Script

The scripts corresponding to the SeeBeyond Staging Table listed above are packaged within the following file:

- sb_validate_cc_entries_pkg.sql

Items and Item Revisions

Oracle Interface Tables

Oracle provides the following Interface Tables for items:

- mtl_system_items_interface
- mtl_item_revisions_interface

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging tables, corresponding to the Oracle Open Interface Tables listed above:

- sb_mtl_system_items_interface
- sb_mtl_item_revisions_int

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_items_pkg.sql
- sb_validate_invrev_pkg.sql

Replenishment

Oracle Interface Tables

Oracle provides the following Interface Tables for Item Replenishment:

- mtl_replenish_headers_int
- mtl_replenish_lines_int

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging tables, corresponding to the Oracle Open Interface Tables listed above:

- sb_mtl_replenish_headers_int
- sb_mtl_replenish_lines_int

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_rep_headers_pkg.sql
- sb_validate_rep_lines_pkg.sql

These files are controlled by the following master validation file:

- sb_validate_rep_pkg.sql

Transactions

Oracle Interface Tables

Oracle provides the following Interface Tables for Transactions:

- mtl_transactions_interface
- mtl_transaction_lots_interface
- mtl_serial_numbers_interface

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging tables, corresponding to the Oracle Open Interface Tables listed above:

- sb_mtl_transactions_interface
- sb_mtl_transaction_lots_inter
- sb_mtl_serial_numbers_interface

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_trans_pkg.sql
- sb_validate_trans_lots_pkg.sql

- sb_validate_serial_nos_pkg.sql

These files are controlled by the following master validation file:

- sb_validate_tran_all_pkg.sql

4.2.2 Purchase Order Import Module

The Oracle Purchase Order Import module works with other Oracle Manufacturing modules to provide a complete set of transactions and reports for maintaining inventory control.

Purchase Order Import

Oracle Interface Tables

Oracle provides the following Interface Tables for Purchase Order Import:

- po_headers_interface
- po_lines_interface

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging tables, corresponding to the Oracle Open Interface Tables listed above:

- sb_po_headers_interface
- sb_po_lines_interface

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_poi_hdrs_pkg.sql
- sb_validate_poi_lines_pkg.sql

These files are controlled by the following master validation file:

- sb_validate_poi_pkg.sql

Purchase Order Receiving

Oracle Interface Tables

Oracle provides the following Interface Tables for Receiving:

- rcv_headers_interface
- rcv_transactions_interface

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging tables, corresponding to the Oracle Open Interface Tables listed above:

- sb_rcv_headers_interface

- sb_rcv_transactions_interface

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_rcv_hdr_pkg.sql
- sb_validate_rcv_trans_pkg.sql

These files are controlled by the following master validation file:

- sb_validate_rcv_pkg.sql

Purchase Order Requisitions

Oracle Interface Table

Oracle provides the following Interface Table for Requisitions:

- po_requisitions_interface_all

SeeBeyond Staging Table

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_po_requisitions_interface_a

Pre-Validation Script

The scripts corresponding to the SeeBeyond Staging Table listed above are packaged within the following file:

- sb_validate_por_req_pkg.sql

4.2.3 Order Entry Module

The Oracle Order Entry module works with other Oracle Manufacturing modules to provide a complete set of transactions and reports for maintaining order entry control.

Oracle Interface Tables

Oracle provides the following Interface Table for Order Entry:

- oe_headers_interface
- oe_lines_interface
- oe_actions_interface
- oe_credits_interface
- oe_price_adjs_interface
- oe_lotserials_interface
- oe_reservtns_interface

SeeBeyond Staging Tables

- sb_oe_headers_interface

- sb_oe_lines_interface
- sb_oe_actions_interface
- sb_oe_credits_interface
- sb_oe_price_adjs_interface
- sb_oe_lotserials_interface
- sb_oe_reservtns_interface

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following file:

sb_validate_oe_pkg.sql

This file is controlled by the following master validation file:

sb_validate_oi_pkg.sql

4.3 Financial Module

The Financial module is divided into the following sub-modules:

- **"Accounts Payable Module" on page 42**
- **"Accounts Receivable Module" on page 43**
- **"Cash Management Module" on page 45**
- **"Fixed Assets Module" on page 46**
- **"General Ledger Module" on page 47**

Each submodule uses at least one corresponding set of tables and scripts, as depicted in **Figure 7 on page 36**

4.3.1 Accounts Payable Module

The Oracle Accounts Payable module works with other Oracle Financial modules to provide a complete set of transactions and reports for maintaining accounts payable control.

Accounts Payable

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- ap_invoices_interface
- ap_invoice_lines_interface

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_ap_invoices_interface
- sb_ap_invoice_lines_interface

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_ap_inv_pkg.sql
- sb_validate_ap_inv_lines_pkg.sql

These files are controlled by the following master validation file:

sb_validate_payable_pkg.sql

4.3.2 Accounts Receivable Module

The Oracle Accounts Receivable module works with other Oracle Financial modules to provide a complete set of transactions and reports for maintaining accounts receivable control.

Auto Invoice

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- ra_interface_distributions
- ra_interface_lines_all
- ra_interface_salescredits_all

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_ra_interface_distributions
- sb_ra_interface_lines_all
- sb_ra_interface_salescredits_all

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_ra_dist_pkg.sql
- sb_validate_ra_lines_pkg.sql
- sb_validate_ra_sales_cr_pkg.sql

This file is controlled by the following master validation file:

sb_validate_auto_inv_pkg.sql

Auto Lock

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- ar_payments_interface_all

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_ar_payments_interface_all

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following file:

- sb_validate_ar_payments_pkg.sql

This file is controlled by the following master validation file:

sb_validate_auto_lock_pkg.sql

Customers

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- ra_customers_interface
- ra_contact_phones_int_all
- ra_cust_pay_method_interface
- ra_customer_banks_int_all
- ra_customer_profiles_interface

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_ra_customers_interface
- sb_ra_contact_phones_int_all
- sb_ra_cust_pay_method_interface
- sb_ra_customer_banks_int_all
- sb_ra_customer_profiles_interface

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_cust_pkg.sql
- sb_validate_contact_phones_pkg.sql
- sb_validate_cust_pay_mtd_pkg.sql
- sb_validate_cust_banks_pkg.sql
- sb_validate_cust_profiles_pkg.sql

This file is controlled by the following master validation file:

sb_validate_customers_pkg.sql

4.3.3 Cash Management Module

The Oracle Cash Management module works with other Oracle Financial modules to provide a complete set of transactions and reports for maintaining cash management control.

Bank Statement

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- ce_statement_headers_int_all
- ce_statement_lines_interface

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_ce_statement_headers_int_all
- sb_ce_statement_lines_interface

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_stmt_headers_pkg.sql
- sb_validate_stmt_lines_pkg.sql

These files are controlled by the following master validation file:

sb_validate_bank_stmt_pkg.sql

4.3.4 Fixed Assets Module

The Oracle Fixed Assets module works with other Oracle Financial modules to provide a complete set of transactions and reports for maintaining fixed asset control.

Categories

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- fa_categories_b

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_fa_categories_b

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following file:

- sb_validate_cat_pkg.sql

This file is controlled by the following master validation file:

sb_validate_fa_categories_pkg.sql

Locations

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- fa_locations

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_fa_locations

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_loc_pkg.sql

These files are controlled by the following master validation file:

sb_validate_fa_locations_pkg.sql

Mass Additions

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- fa_mass_additions

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_fa_mass_additions

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_additions_pkg.sql

These files are controlled by the following master validation file:

sb_validate_fa_mass_add_pkg.sql

4.3.5 General Ledger Module

The Oracle General Ledger module works with other Oracle Financial modules to provide a complete set of transactions and reports for maintaining general ledger control.

Budget

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- gl_budget_interface

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_gl_budget_interface

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_gl_budget_pkg.sql

These files are controlled by the following master validation file:

sb_validate_budget_pkg.sql

Daily Rates

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- gl_daily_rates_interface

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_gl_daily_rates_interface

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_gl_daily_rates_pkg.sql

These files are controlled by the following master validation file:

sb_validate_dailyrates_pkg.sql

Journal

Oracle Interface Tables

Oracle provides the following Interface Table for Requisitions:

- gl_interface

SeeBeyond Staging Tables

The Oracle Applications eWay sets up the following staging table, corresponding to the Oracle Open Interface Table listed above:

- sb_gl_interface

Pre-Validation Scripts

The scripts corresponding to the SeeBeyond Staging Tables listed above are packaged within the following files:

- sb_validate_gl_int_pkg.sql

These files are controlled by the following master validation file:

sb_validate_journal_pkg.sql

4.4 Building a Custom Pre-Validation Package

Important: *Read sections 4.5* **"Naming Conventions" on page 52** *and 5.3* **"Exposed OTD Nodes" on page 60** *for more information on modifying the template.xml correctly. The Order_Import.xml is a good example to refer to.*

To build a custom pre-validation package for a non-supported Open Interface

1 Modify the Oracle Applications master configuration file in the following location to add a new module:

```
<CAPS_Dir>/edesigner/userdir/modules/ext/oracleappsadapter/wizard/
configs/Applications.xml
```

When adding a new business function, assign the business section a new name and entry for the new open interface. Spaces are acceptable when creating a module name.

```
<Module Name="Module_Name"Definition="moduleDefinition.xml"> </
Module>
```

Notice that the name attribute is an English description which appears in the OTD wizard where the definition attribute locates the open interface XML definition file (this attribute cannot have spaces).

2 Copy and rename the **template.xml** file from:

```
<CAPS_Dir>/edesigner/userdir/modules/ext/oracleappsadapter/wizard/
configs/templateXml.xml
```

to the appropriate directory:

```
<CAPS_Dir>/edesigner/userdir/modules/ext/oracleappsadapter/wizard/
configs/business_function_name/moduleDefinition.xml
```

where **business_function_name** is the name attribute value (for example, either **Manufacturing** or **Financial).**

While the template XML file does not have an error package or error table entries, you can look at any existing module to create these entries. If you choose to modify the common sb_install.sql file to append more errors for the new module, the SB_ERRORS table needs to be removed from the database so the wizard can recreate it with new error values the next time the wizard is run.

3 Replace the `<%%ORACLE_INTERFACE_NAME%%>` with the correct open interface name. Do not use spaces when creating an ORACLE_INTERFACE_NAME.

4 Replace the `<%%ORACLE_APPLICATION_SUITE NAME%%>` with the correct business suite name.

5 Replace the `<%%MODULE_NAME%%>` with the correct module name. Do not use spaces when creating a MODULE_NAME.

6 The initialize and request_status scripts are already specified in the XML file. If you do not need these, simply remove them from the XML file. If you need to customize these scripts:

D Copy the SQL file to the desired directory

E Rename the file—the package name must be the same as the SQL file name (which is true for all entries in this XML file).

F Modify the scripts as needed for your own implementation.

G In the XML file, refer to these new customized SQL files instead of the shipped SQL script.

Note: *Do not change either the* **Initialize_Profile** *stored procedure name, nor its location as the entry point for the initialization packages.*

7 Replace <%%VALIDATION_PACKAGE_SQL_FILE_NAME%%> with the correct path and file name for the validation package. This validation package file name must be sql/**business_function_name**/<%%MODULE_NAME%%>/<%%ORACLE_INTERFACE_NAME%%>/sb_validate_interfaceNameAbbreviation_pkg.sql, this path is relative from `<CAPS_Dir>/edesigner/userdir/modules/ext/oracleappsadapter/wizard/`

This package contains the VALIDATE procedure which eventually invokes all the VALIDATE procedures for all the tables.Please refer to sections **"Pre-Validation Procedures" on page 36** and **"VALIDATE" on page 65** for more information on how to compose the VALIDATE procedure.

8 Replace <%%UTILITY_PACKAGE_SQL_FILE_NAME%%> with the correct path and file name for the utility package. This utility package file name must be sql/**business_function_name**/<%%MODULE_NAME%%>/<%%ORACLE_INTERFACE_NAME%%>/sb_interfaceNameAbbreviation_utils_pkg.sql, this path is relative from `<CAPS_Dir>/edesigner/userdir/modules/ext/oracleappsadapter/wizard/`

This package contains the procedures to move, delete, and function count all interface tables and the OTD level. Please refer to section 4.3 **"Exposed OTD Nodes" on page 60** for more information on how to compose the procedure and function names.

9 Replace <%%CONCURRENT_MANAGER_FUNCTION_SQL_FILE_NAME%%> with the correct path and file name for the concurrent file. This concurrent manager file name must be sql/**business_function_name**/<%%MODULE_NAME%%>/<%%ORACLE_INTERFACE_NAME%%>/fn_request_<%%ORACLE_INTERFACE_NAME%%>.sql relative from `<CAPS_Dir>/edesigner/userdir/modules/ext/oracleappsadapter/wizard/`

This function eventually invokes the concurrent manager. Please refer to **"REQUEST" on page 64** for more information on how to compose this function.

10 Replace <%%INTERFACE_TABLE_NAME%%> with the correct interface table name. Create more entries as needed for each interface table, either in the same level or as a child. For example, in manufacturing, **order import** has two interface tables with child-parent relationships, where as **item import** has two interface tables with sibling relationships.

11 Replace <%%INTERFACE_TABLE_VALIDATION_PACKAGE_SQL_FILE_NAME%%> with the correct path and file name for the validation package for this particular interface table. This validation package file name must be sql/

business_function_name/<%%MDULE_NAME%%>/
<%%ORACLE_INTERFACE_NAME%%>/
sb_validate_interface_TablenameAbbreviation_pkg.sql, this path is relative from `<CAPS_Dir>/edesigner/userdir/modules/ext/oracleappsadapter/wizard/`.

This package has the VALIDATE procedure for these interface tables. Please refer to sections **"Pre-Validation Procedures" on page 36** and **"VALIDATE" on page 65** for more information on how to compose the VALIDATE procedure.

12 Restart the Enterprise Designer so the OTD Wizard can load the new changes.

13 Create and compile the SQL scripts defined in the XML definition files. When creating SQL files, make sure that they begin with CREATE AND REPLACE.

Note: *The new Applications.xml, moduleDefinition.xml, and SQL scripts are stored only in the Enterprise Designer directory. It is recommended to back them up periodically.*

4.4.1 Concurrent Manager Request Function

The default SQL script template for Concurrent Manager Request has 100 identical input parameters for FND_REQUEST.SUBMIT_REQUEST. If you need to customize the input parameters for your generated script, the following tags can be used to specify the input parameters.

```
<Concurrent_Manager>path/file_name.sql</Concurrent_Manager>
<Request_Param>parameter1</Request_Param>
<Request_Param>parameter2</Request_Param>
<Request_Param>parameter3</Request_Param>
```

4.4.2 Template DTD

The Data Type Definition (DTD) associated with the template XML file is shown below:

```
<!ELEMENT OPEN_INTERFACE (Initialize_Script?, Validation_Script?,
Utility_Script, Concurrent_Manager, Request_Param*,
Concurrent_Manager_Status?, Interface_Table+, Error_Handle?,
Pre_Required_Script*)>
<!--  Open interface name -->
<!ATTLIST OPEN_INTERFACE
    Name CDATA #REQUIRED
>
<!-- Oracle Manufacturing Version -->
<!ATTLIST OPEN_INTERFACE
    Version CDATA #REQUIRED
>
<!-- Application Suite  -->
<!ATTLIST OPEN_INTERFACE
    Application-Suite CDATA #REQUIRED
>
<!-- Module Name -->
<!ATTLIST OPEN_INTERFACE
    Module CDATA #REQUIRED
>
<!-- utiltiy store procedure name at root level, this attribute is
optional
   if this attribute is specified, it overrides the default
```

```
   name convention, which is derived from Name attribute of
OPEN_INTERFACE
-->
<!ATTLIST OPEN_INTERFACE
    Util_Name CDATA #IMPLIED
>
<!-- relative path to the sql script file for initialize  package-->
<!ELEMENT Initialize_Script (#PCDATA)>
<!-- relative path to the sql script file for validation package -->
<!ELEMENT Validation_Script (#PCDATA)>
<!-- relative path to the sql script file for Utility package -->
<!ELEMENT Utility_Script (#PCDATA)>
<!-- relative path to the sql script file for concurrent manager
request function -->
<!ELEMENT Concurrent_Manager (#PCDATA)>
<!-- parameter description for concurrent manager request function  -
->
<!ELEMENT Request_Param (#PCDATA)>
<!-- relative path to the sql script file for function to retrieve
concurrent manager request status -->
<!ELEMENT Concurrent_Manager_Status (#PCDATA)>
<!-- Oracle Open Interface table definition -->
<!ELEMENT Interface_Table (Validation_Script?, Interface_Table*)>
<!-- name for the oracle open interface table -->
<!ATTLIST Interface_Table
    Name CDATA #REQUIRED
>
<!-- name for SB staging table, this attribute is optional
    if this attribute is set, the program directly uses
    its value as the SB staging table for this specific
    interface
-->
<!ATTLIST Interface_Table
    SB_Name CDATA #IMPLIED
>
<!-- utility store procedure name at specific interface level, this
attribute is optional
   if this attribute is specified, it overrides the default name
convention, which is
   derived from the specific interface name
-->
<!ATTLIST Interface_Table
    Util_Name CDATA #IMPLIED
>
<!-- Error handling definition -->
<!ELEMENT Error_Handle (Error_Table?, Error_PKG?)>
<!-- relative path to the sql script for creating error table -->
<!ELEMENT Error_Table (#PCDATA)>
<!-- relative path to the sql script for error handling -->
<!ELEMENT Error_PKG (#PCDATA)>
<!-- relative path to the sql script that needs to be compiled in
order for other stored procedure to be compiled successfully -->
```

4.5 Naming Conventions

Oracle Interface Name

The specific name for the Open Interface, which is specified in the XML file.

Short Table Name

The name used for the generated utility stored procedures, for each interface table. It is derived from the corresponding Oracle Interface Table name as follows:

- If the Oracle Interface Table name is longer than 23 characters, replace INTERFACE or IFACE_ALL with INT to form the short table name

(Since there is a limitation of 30 characters placed on the function/stored procedure name in Oracle, the Open Interface name specified in the XML file must be no more than 23 characters).

Stored Procedures

The utility stored procedure names are derived from the Short Table name, according to the following convention:

- Sb_XXX_<SHORT_TABLE_NAME>

Staging Table Node

The name of the staging table node is derived from the corresponding Oracle Interface Table name by adding the prefix **SB**_ and truncating it to 30 characters, if necessary.

SQL File Name

If the SQL file is used to create a packaged stored procedure, the file name must be the same as the package name. The file name is case sensitive and must be less than or equal to 30 character due to the rules of Oracle procedure/function name.

Concurrent Manager Request Function

The function name is derived from the Open Interface name specified in the XML, and has the form: FN_REQUEST_<ORACLE_INTERFACE_NAME>.

Chapter 5

Using the OTD Wizard

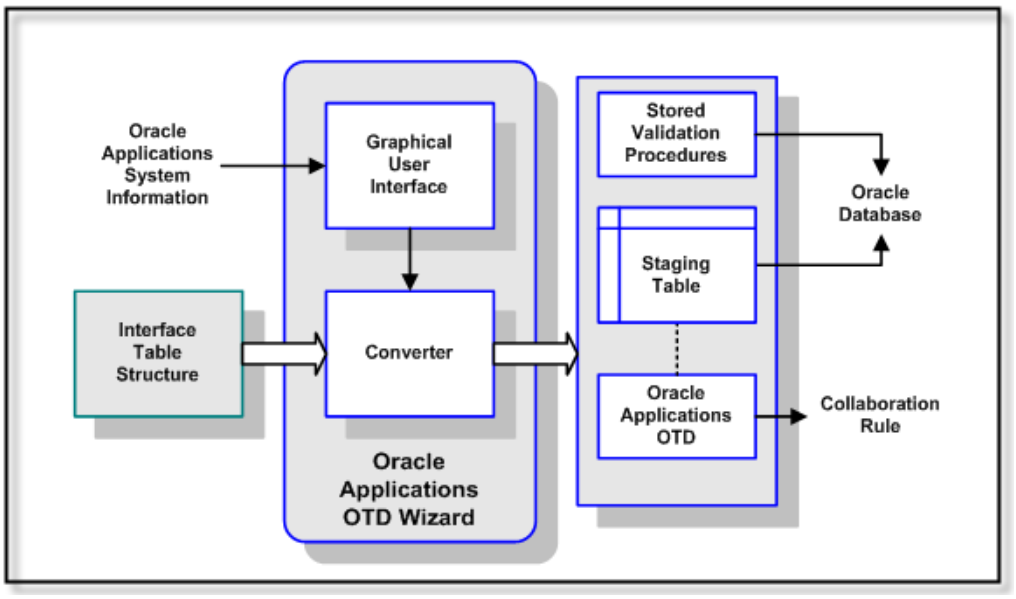
This chapter describes how to use the Oracle Applications Database Wizard to create Object Type Definitions (OTDs) based Oracle Applications tables for use in CAPS Projects.

What's in This Chapter

5.1 Oracle Applications OTD Wizard Overview

The Oracle Applications eWay uses a wizard-based OTD builder to create OTDs based on your Oracle tables. The wizard queries the Oracle tables to determine the hierarchies of the interface tables for a particular module, and creates a corresponding OTD. It also sets up the necessary staging table and the stored validation procedures to be run against the table.

Figure 8 Oracle Applications OTD Wizard



When building an OTD, the wizard calls many JDBC APIs (for example, getProcedureColumns()) which in turn queries the database and returns the resultset. It is the Oracle driver that translates the API into multiple queries. The eWay itself doesn't issue the queries directly. In a situation where there is a lot of data in the database, it may take a while to return all the resultsets to the wizard. The performance of the queries is dependent on the execution path which is formulated when a SQL call is prepared. Not having good stats in the data dictionary could produce a long running query.

Oracle recommends doing the following to gather vital stats to improve performance:

1. Set the following in either the init.ora file or spfile (whichever is appropriate for their install):

   _table_lookup_prefetch_size=0

2. Analyze the SYS schema for the system as follows:

   A. Start sqlplus

   B. Connect as sys user

   C. exec dbms_stats.gather_schema_stats('SYS');

3. Keep in mind that significant changes to the database would affect the data dictionary (like new tables, indexes, etc). You should consider running the analysis regularly.

Important: *Please consult your Database Administrator or Oracle before taking these steps as it may impact other applications.*

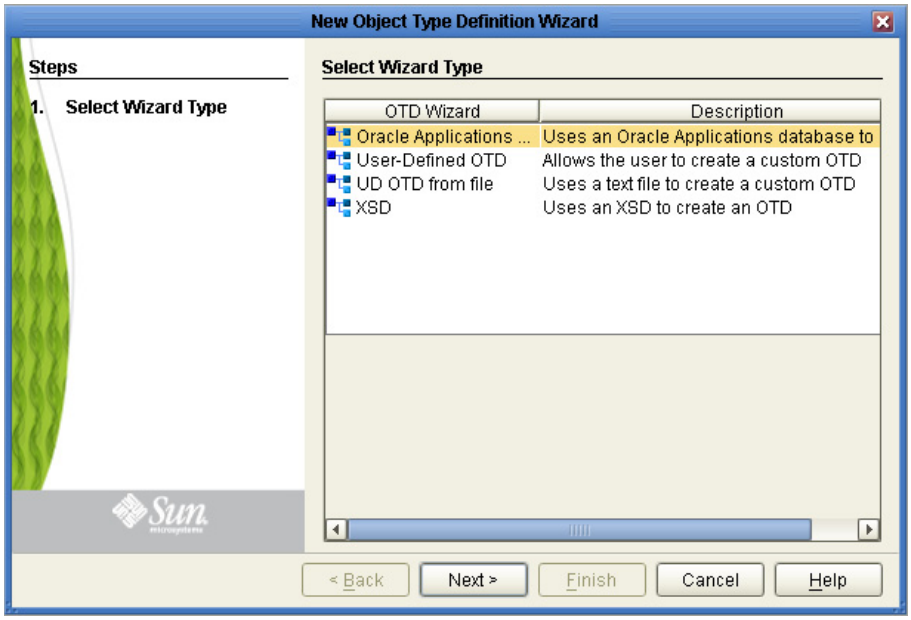
5.2 Creating OTDs

To create an OTD using the Oracle Applications Database Wizard

1. In the Enterprise Designer Project Explorer, right-click your Project, click **New**, and then click **Object Type Definition**.

   The Object Type Definition Wizard appears.

Figure 9 Select Wizard Type



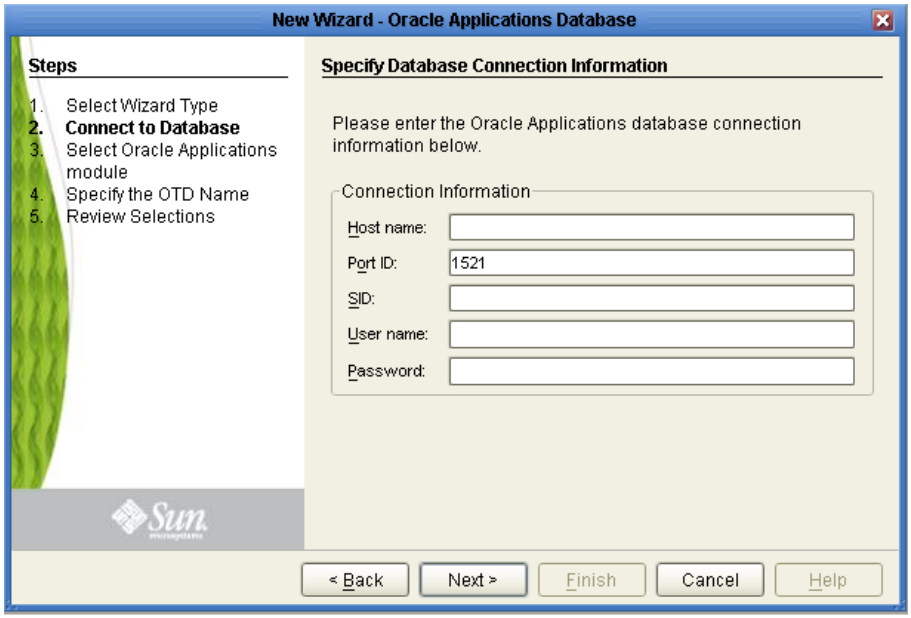
2 Click **Oracle Applications Database**, and then click **Next**.

3 Type the **Host Name**, **Port ID**, **SID**, **User name**, and **Password**, and click **Next**.

Table 10 Database Connection Information

Connection Information	Description
Host Name	The name or IP address of the Oracle server.
Port ID	The port on which the server is listening for connections.
SID	The Oracle System Identifier (SID).
User Name	The user name used to connect to the Oracle server.
Password	The password used to connect to the Oracle server.

Figure 10 Connect to Database



4 Select the Business Function and Module and choose whether to use fully-qualified names and to replace existing stored procedures.

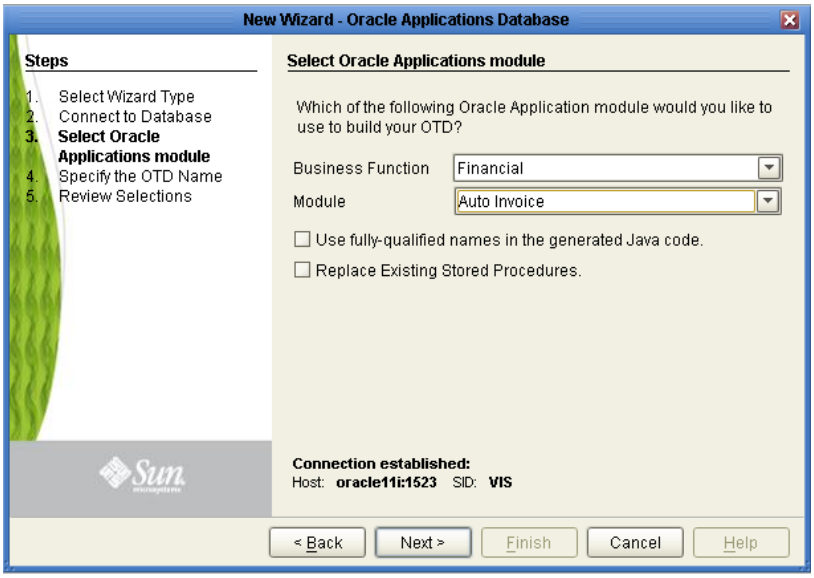
Table 11 Select Oracle Applications module

Module Information	Description
Business Function	Currently Financial and Manufacturing are the only supported business functions.
Module	The available modules in the Financial business function are: ▪ Auto Invoice ▪ Auto Lock ▪ Bank Statement ▪ Budget ▪ Customers ▪ Daily Rates ▪ Fixed Assets Categories ▪ Fixed Assets Mass Additions ▪ Journal ▪ Payable The available modules in the Manufacturing business function are: ▪ Customer Item ▪ Customer Item Cross-Reference ▪ Cycle Count Entries ▪ Item Import ▪ Item Transactions ▪ Order Requisition ▪ Order Import ▪ Order Receiving ▪ Replenishment

Table 11 Select Oracle Applications module (Continued)

Module Information	Description
Use fully-qualified names in the Java code	Specifies whether the generated Java code uses fully-qualified names.
Replace Existing Stored Procedures	Specifies to replace any existing stored procedures or stop the wizard if any stored procedures exist. You must select this option in order to continue with the wizard. Take care to back up any stored procedures you have modified before continuing with this wizard.

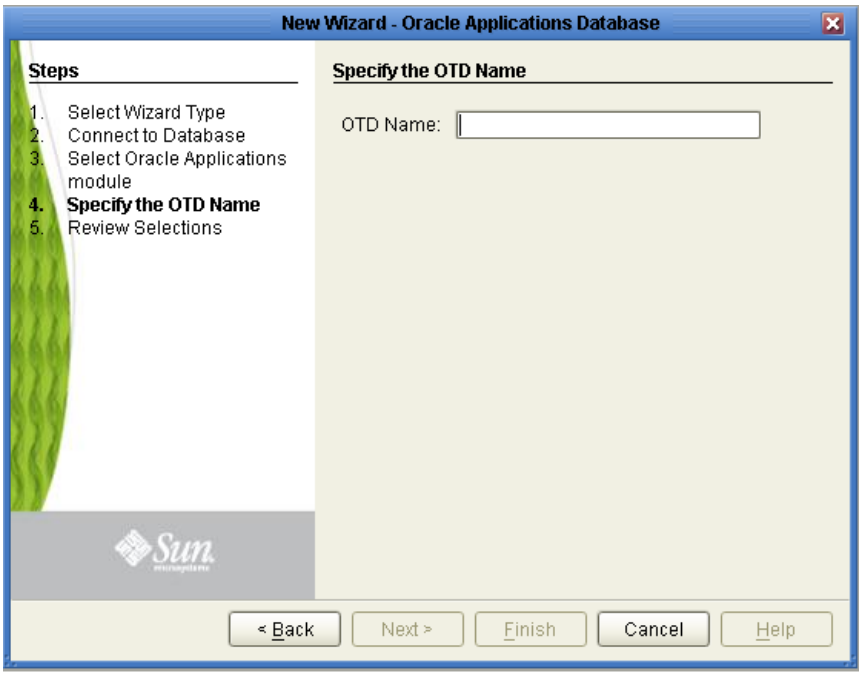
Figure 11 Select Oracle Applications module



Important: *A set of stored procedures are installed with the Oracle Applications eWay. Unless these stored procedures are somehow deleted, the only way to create the OTD is by selecting* **Replace Existing Stored Procedures**. *Otherwise, the existing stored procedures are not overwritten, an error appears, and the wizard stops.*

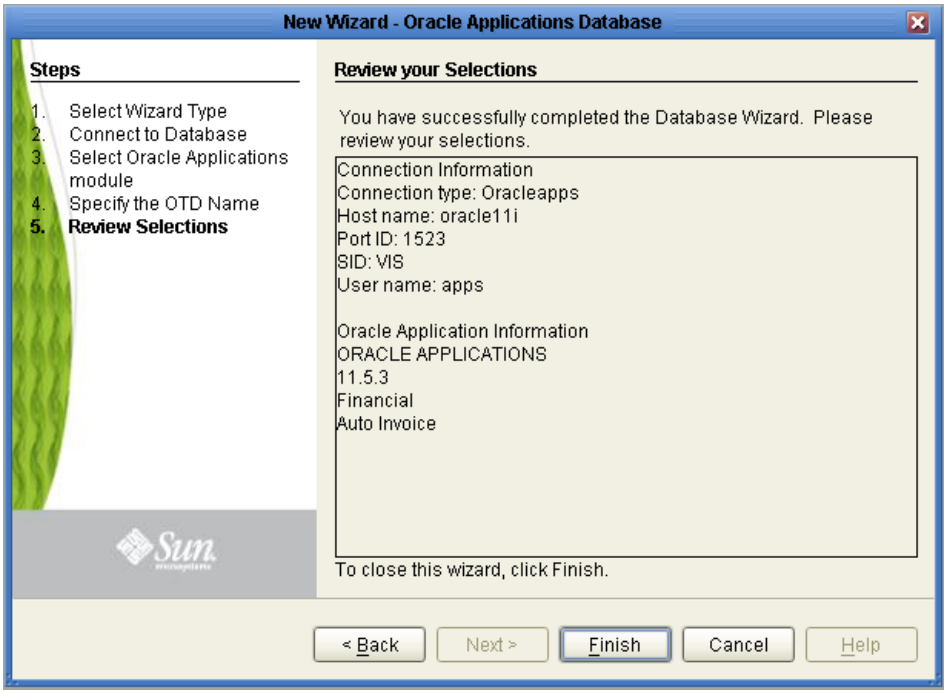
5 Type a name for the OTD to be created, and click **Next**.

Figure 12 Specify the OTD Name



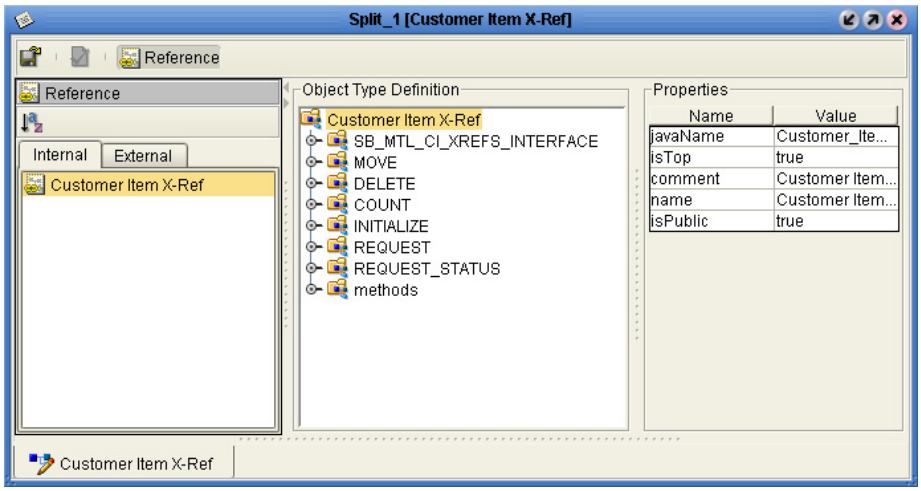
6 Click **Finish** to begin generating the OTD. The time it takes the OTD to generate depends on the module you selected and your system performance.

Figure 13 Review Your Selections



The generated OTD appears in the OTD Editor. Nodes and methods for your OTD depend on the module you selected and the configuration of your tables.

Figure 14 Finished Object Type Definition



5.3 Exposed OTD Nodes

5.3.1 Staging Table Node

This node represents the SeeBeyond Staging Table created inside the Oracle database. All columns in the table are exposed, and can be dragged and dropped in the Java Collaboration. The node has a name of the form **SB_<Oracle_Interface_Table_name>** having a maximum length of 30 characters.

The Staging Table is created from the Interface Table with the following six extra fields used to support the pre-validation process:

- SB_EWAY_ID
- SB_GROUP_ID
- SB_OBJECT_ID
- SB_PASS_OR_FAIL
- SB_ERROR_CODE
- SB_ERROR_MESSAGE

All of the ID fields (the first three fields shown above) are used for pre-validation purposes within CAPS.

5.3.2 COUNT

Description

Stored procedures for both the OTD level and the interface tables level are defined in the utility package.

- If it is located at the OTD root level, the data is counted from *all* Staging Tables.
- If it is located at the Staging Table level, the data is counted only for that specific Staging Table.

Parameters

Depends upon specific implementation. Typically, it contains at least four input VARCHAR parameters corresponding to:

- sb_eway_id
- sb_group_id
- sb_object_id

Note: *If you do not assign a value (including the null value) to the above parameters, the procedure acts on all associated records.*

- sb_pass_or_fail

  This parameter accepts the following values:

  - **P** – records that have passed
  - **F** – for records that have failed
  - **I** – all records

Requirements

The stored procedure name is derived from the Open Interface name or the Staging Table name, according to the following convention:

- At the root level:

  If the **OPEN_INTERFACE** tab has a **Util_Name** attribute, then this value is used: **FN_CNT_<UTILNAME>**. Otherwise, the value of the attribute **Name** is used: **FN_CNT_<Open_Interface_Name>**.

  For example:

  - Customer Item: **FN_CNT_CUSTITEMS**
  - Item Import: **FN_CNT_ITEM_IMPORT**

- At the staging table level:

  If the **Interface_Table** tag has a **Util_Name** attribute, then this value is used: **FN_CNT_<UTILNAME>**. Otherwise, the short name of the **Name** attribute is used: **FN_CNT_<Short_Table_Name>**.

  For example:

  - Customer Item: **FN_CNT_MTL_CI_INTERFACE_INT**
  - Item Import: **FN_CNT_MTL_SYSTEM_ITEMS_INT**

5.3.3 DELETE

Description

Stored procedures for both OTD level and interface level are defined in the utility package.

- If it is located at the OTD root level, the data from *all* Staging Tables is deleted.
- If it is located at the Staging Table level, only the data for that specific Staging Table is deleted.

Parameters

Depends upon the specific implementation. Typically, it contains at least four input VARCHAR parameters corresponding to:

- sb_eway_id
- sb_group_id
- sb_object_id

Note: *If you do not assign a value (including the null value) to the above parameters, the procedure acts on all associated records.*

- sb_pass_or_fail

  This parameter accepts the following values:

  - **P** – records that have passed
  - **F** – for records that have failed
  - **I** – all records

Requirements

The stored procedure name is derived from the Open Interface name or the Staging Table name, according to the following conventions:

- At the root level:

  If the **OPEN_INTERFACE** tab has a **Util_Name** attribute, then this value is used: **SP_DEL<UTILNAME>**. Otherwise, the value of the attribute **Name** is used: **SP_DEL_<Open_Interface_Name>**.

  For example:

  - Customer Item: **SP_DEL_CUSTITEMS**
  - Item Import: **SP_DEL_ITEM_IMPORT**

- At the staging table level:

  If the **Interface_Table** tag has a **Util_Name** attribute, then this value is used: **SP_DEL_<UTILNAME>**. Otherwise, the short name of the **Name** attribute is used: **SP_DEL_<Short_Table_Name>**.

  For example:

  - Customer Item: **SP_DEL_MTL_CI_INTERFACE_INT**

- Item Import: **SP_DEL_MTL_SYSTEM_ITEMS_INT**

5.3.4 INITIALIZE

Description

This optional packaged stored procedure is used to initialize the user's profile for Oracle Applications.

Parameters

Depends upon the specific implementation. Typically, it accepts the Organization ID as a parameter.

Requirements

Inside the script package, this stored procedure must have the name **Initialize_Profile**.

5.3.5 MOVE

Description

Stored procedures for both OTD level and interface tables level are defined in the utility package.

- If it is located at the OTD root level, it copies the data from *all* SeeBeyond Staging Tables to the corresponding Oracle Interface Tables.
- If it is located at the Interface Table level, then the data for only that specific Staging Table is copied to its corresponding Open Interface Table.

This procedure acts only on records with the ID values specified.

Parameters

Depends upon the specific implementation. Typically, it contains at least four input VARCHAR parameters corresponding to:

- sb_eway_id
- sb_group_id
- sb_object_id
- sb_pass_or_fail

  This parameter accepts the following values:

  - **P** – records that have passed
  - **F** – for records that have failed
  - **I** – all records

Requirements

The stored procedure name is derived from the Open Interface name or the Staging Table name, according to the following convention:

- At the root level:

If the **OPEN_INTERFACE** tab has a **Util_Name** attribute, then this value is used: **SP_MOV<UTILNAME>**. Otherwise, the value of the attribute **Name** is used: **SP_MOV_<Open_Interface_Name>**.

For example:

- Customer Item: **SP_MOV_CUSTITEMS**
- Item Import: **SP_MOV_ITEM_IMPORT**

- At the staging table level:

  If the **Interface_Table** tag has a **Util_Name** attribute, then this value is used: **SP_MOV_<UTILNAME>**. Otherwise, the short name of the **Name** attribute is used: **SP_MOV_<Short_Table_Name>**.

  For example:

  - Customer Item: **SP_MOV_MTL_CI_INTERFACE_INT**
  - Item Import: **SP_MOV_MTL_SYSTEM_ITEMS_INT**

5.3.6 REQUEST

Description

Concurrent Manager request function. This function is used to submit the concurrent management request to Oracle Applications.

Parameters

Depends upon specific implementation.

Requirements

The function name is derived from the Open Interface name specified in the SML, and has the form **FN_REQUEST_<ORACLE_INTERFACE_NAME>**.

5.3.7 REQUEST_STATUS

Description

Function used to retrieve the status of the Concurrent Manager request.

Parameters

- **INp_request_id IN NUMBER**

  Request Id for the concurrent Manager; basically, the return value from REQUEST.

- **INp_interval_sec IN NUMBER**

  The interval in seconds for the program to query for the result of a Concurrent Manager request.

- **INp_maximum_sec IN NUMBER**

  The maximum allowed interval (in seconds) for the program to time out. This parameter *must* have a non-zero value.

- **OUTp_detailed_status OUT VARCHAR2**

Output parameter having the detailed description of the concurrent request.

Requirements

In order for **Request_Status** to correctly retrieve the Concurrent Manager request, you must call **commit** after the **Request** stored procedure call; otherwise, **Request_Status** always returns **Pending** status after a time-out.

5.3.8 VALIDATE

Description

This packaged stored procedure is used to perform the pre-validation of data in the Staging Table.

- If it is located at the OTD root level, the data in *all* Staging Tables is validated.
- If it is located at the Staging Table level, only the data in that specific Staging Table is validated.

Parameters

Depends upon specific implementation. By default, it contains three input VARCHAR parameters corresponding to:

- sb_eway_id
- sb_group_id
- sb_object_id
- sb_pass_or_fail

Requirements

Inside the script package, this stored procedure must have the name **VALIDATE**.

Chapter 6

Implementing the Sample Projects

This chapter explains how to load the sample Oracle Applications Project into your CAPS Repository and describes the process in which eGate exchanges data with the Oracle Applications system.

What's in This Chapter

6.1 About the Oracle Applications Sample Projects

The Oracle Applications eWay includes two samples. Both samples demonstrate reading records from input files, inserting these records into the appropriate Oracle Applications tables, and writing the results to the output file(s).

The first sample uses a Java Collaboration to exchange data with the Oracle Applications system. The results are written to two output files using file eWays. For complete instructions for installing and running Order Input sample, see **"Using the Order Import JCD Sample" on page 70**.

The second sample uses an eInsight BPEL business process to exchange the data with Oracle Applications. In this sample, the results are written to one output file. For complete instructions for installing and running Order Input BPEL sample, see **"Using the Order Import BPEL Sample" on page 79**.

The third sample uses a Java Collaboration to exchange data with the Oracle Applications system. The results are written to two output files using file eWays. For complete instructions for installing and running the financial sample, see **"Using the Financial GL-Budget JCD Sample" on page 83**.

The fourth sample uses an eInsight BPEL business process to exchange the data with Oracle Applications. In this sample, the results are written to one output file. For complete instructions for installing and running the financial BPEL sample, see **"Using the Financial GL-Budget BPEL Sample" on page 87**.

The following section provides a detailed description of how the Oracle Applications eWay exchanges data with the Oracle Applications system.

6.1.1 About the eInsight Engine and eGate Components

You can deploy an eGate component as an Activity in an eInsight Business Process. Once you have associated the desired component with an Activity, the eInsight engine can invoke it using a Web Services interface.

Examples of eGate components that can interface with eInsight in this way are:

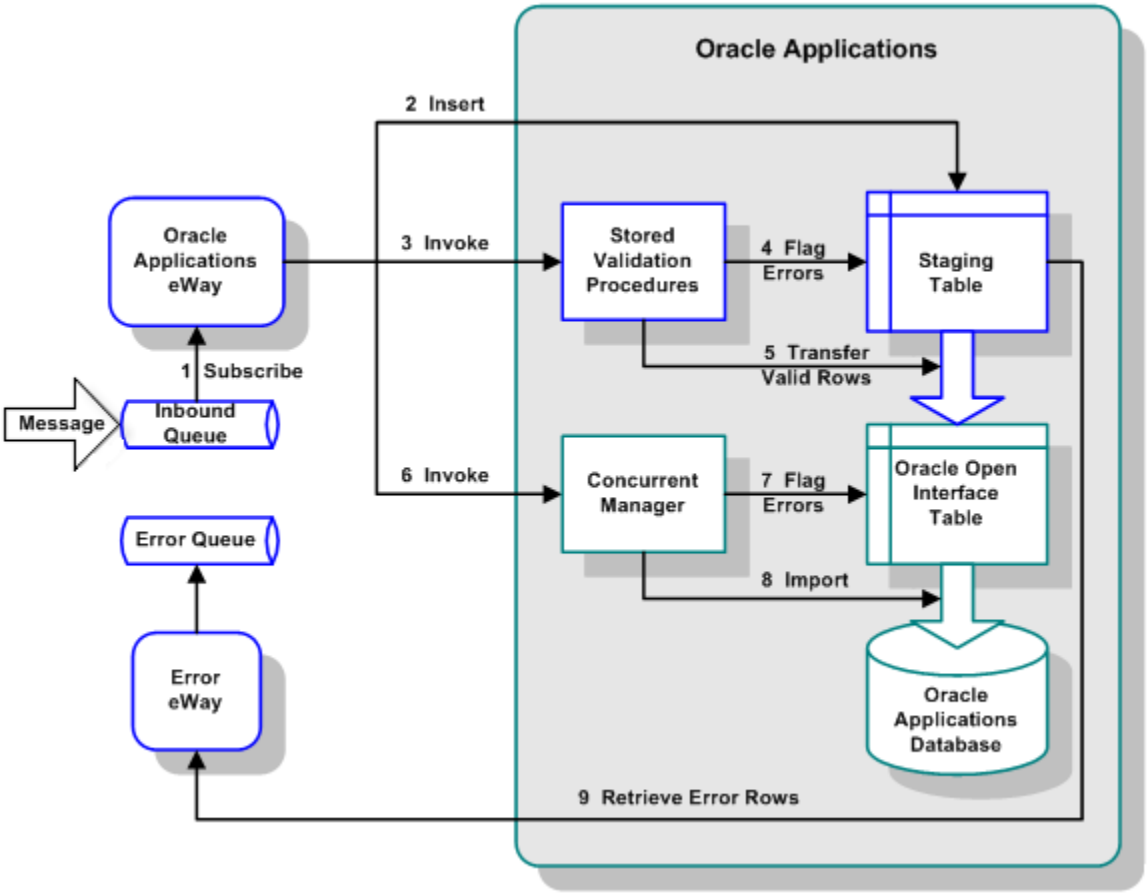
- Object Type Definitions (OTDs)
- An eWay
- Collaborations

Using the eGate Enterprise Designer and eInsight, you can add an Activity to a Business Process, then associate that Activity with an eGate component, for example, an eWay. When eInsight run the Business Process, it automatically invokes that component via its Web Services interface.

6.2 Exchanging Data with Oracle Applications

Figure 15 depicts the procedure to insert or update the Oracle Applications database with a message from some external system. The individual steps are described below.

Figure 15 CAPS to Oracle Operation



1 A Service in the Oracle Applications eWay subscribes to data coming from another system, via eGate Integrator, and transforms the data into the proper format for inserting into the relevant Open Interface Table (OIT).

2 The Collaboration Definition Script inserts the data into a SeeBeyond Staging Table, corresponding to the relevant Open Interface Table (OIT). The SeeBeyond Staging Table mirrors the Open Interface Table structure, plus additional columns for the pre-validation status and ID values.

3 The Collaboration Definition Script calls a SeeBeyond stored procedure to pre-validate the rows in the SeeBeyond Staging Table.

4 The stored procedure executes whatever queries are required to pre-validate the data, and updates the specific error-code columns in the SeeBeyond Staging Table. When complete, each row in the staging table has been marked with a status indicating whether or not it passed pre-validation. If not, the row's error code indicates the type of error including an explanation.

5 Depending on the business rules for the process, the eWay invokes a number of stored procedures to handle the rows in the SeeBeyond Staging Table (there is one set of such stored procedures per SeeBeyond Staging Table). For example, depending on the business requirements:

- all invalid rows can be deleted before proceeding to move valid rows to the Open Interface Table.
- all invalid rows can be published to another system (or be routed there by another eWay).
- the eWay can abort on finding one or more errors (if the business requirement is that all rows succeed or all rows fail).

6 After the valid records are copied from the staging tables to the Open Interface Tables, the eWay invokes the relevant Oracle Concurrent Manager.

7 The Concurrent Manager performs its own validation of the data in the Open Interface Table.

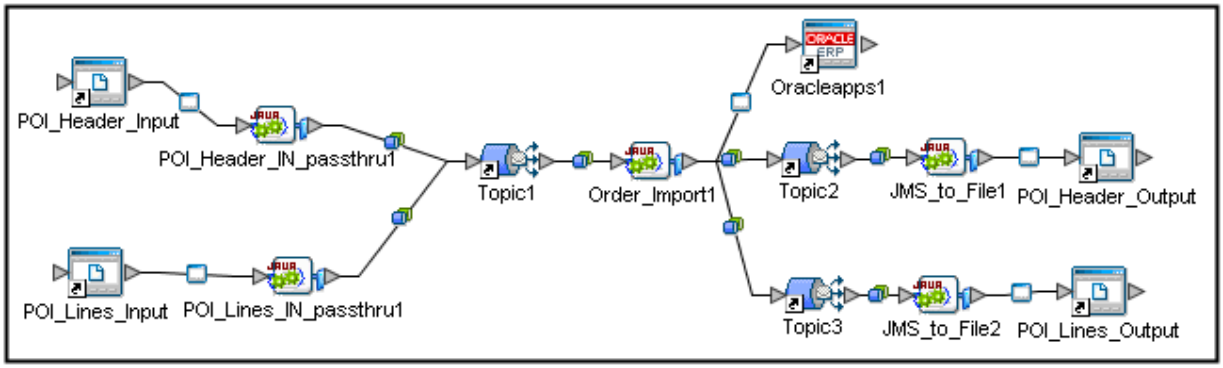
8 The Concurrent Manager then imports the data into the appropriate Oracle Manufacturing database tables.

9 Prepared statements in the OTD are used to retrieve the invalid records from the staging tables, along with the ID values for the failed rows.

6.3 Using the Order Import JCD Sample

The Order Import JCD sample demonstrates the operation of the outbound Oracle Applications eWay by reading information from two files, writing the information to the appropriate Oracle Applications tables, and writing the results out to two output files.

Figure 16 The Order Import JCD Sample



The two input files represent header and line item information for a sample order. This information would typically come from an external application via another eWay or from another upstream CAPS component.

Sample Project Overview

To work with this sample, you must import the project into your CAPS Repository, configure the components for your environment, and run the Project. To import, configure, and run the Order Import sample, you must follow these general steps:

1. Import the sample Project as described in **"Import the Order Import JCD Sample" on page 71**.
2. Set up the sample data on your system as described in **"Set up the Sample Data" on page 72**.
3. Configure each of the four file eWays as described in **"Configure the File eWays" on page 72**.
4. Create an Environment for the Project as described in **"Create the Environment" on page 73**.
5. Create and configure the Deployment Profile as described in **"Create the Deployment Profile" on page 74**.
6. Configure the **Oracleapps1** eWay—the eWay that exchanges the data with Oracle Applications—as described in **"Configure the Oracle_Apps External System" on page 76**.
7. Deploy the Project's Deployment Profile as described in **"Deploying the Project" on page 77**.

8 Configure the Logical Host's properties and start the bootstrap process as described in **"Running the Sample Project" on page 77**.

6.3.1 Import the Order Import JCD Sample

To download the sample from the Enterprise Manager

1 From the **Documentation** page of your Enterprise Manager, click the link for the **Oracle Applications eWay Intelligent Adapter**.

The Oracle Applications documentation page appears.

2 Click **Download Sample**.

3 When you are prompted to open or save the file, click **Open**. The sample .zip file opens in WinZip.

4 Use WinZip to extract the **Oracle_Applications_eWay_Sample.zip** files to a location on your local file system, such as **C:\CAPS_Samples\OraApps**. Make a note of where you extracted the files.

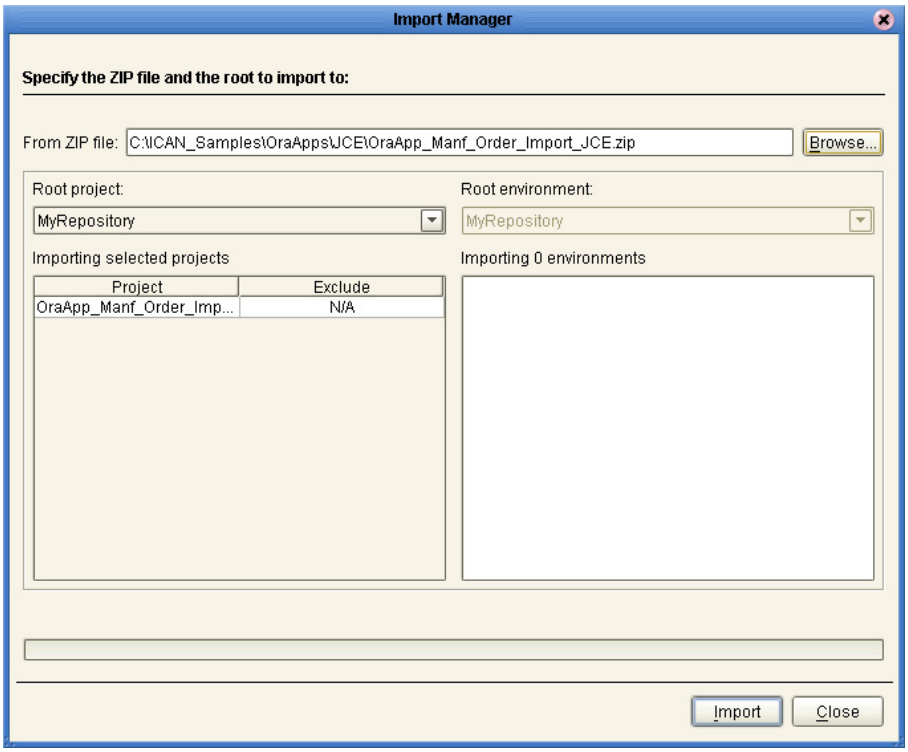
To import the sample in the Enterprise Designer

1 In the Enterprise Designer, right-click your Repository and click **Import**.

2 Click **Yes** to save any changes to your Repository. The Import Manager appears.

3 Click **Browse** and navigate to the location where you downloaded the sample files in step 4 of the previous procedure. In the **JCD** folder, select the **prjOraApp_Manf_Order_Import_JCD_Sample.zip** file and click **Open**.

Figure 17 Import Manager



4 In the Import Manager, click **Import**.

5 An import status message appears when the import completes successfully. Click **OK** to continue.

6 Click **Close** to close the Import Manager and refresh the repository. The prjOraApp_Manf_Order_Import_JCD_Sample appears in the Enterprise Explorer pane of the Enterprise Designer.

6.3.2 Set up the Sample Data

The **POI_Header_Input** and **POI_Lines_Input** external systems use two input files to simulate a transaction to be sent to the Oracle Applications system. These files must be extracted from the sample .zip files and copied to a location to be used by the input File eWays.

To set up the sample data

1 In Windows Explorer, navigate to the location where you extracted the sample .zip files in step 4 of the **procedure on page 71**; for example, **C:\CAPS_Samples\OraApps\JCD**.

2 Use WinZip to extract these files to a location where the two input file eWays can access them at run time, such as **C:\CAPS_Samples\OraApps\JCD\Input_Files**.

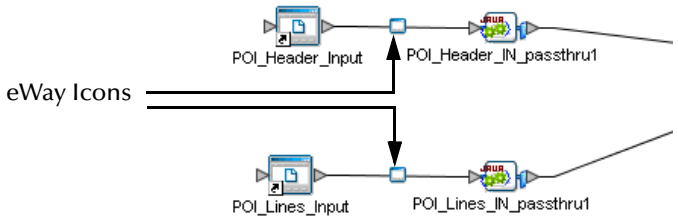
Make a note of this location for later use.

6.3.3 Configure the File eWays

To configure the file eWays

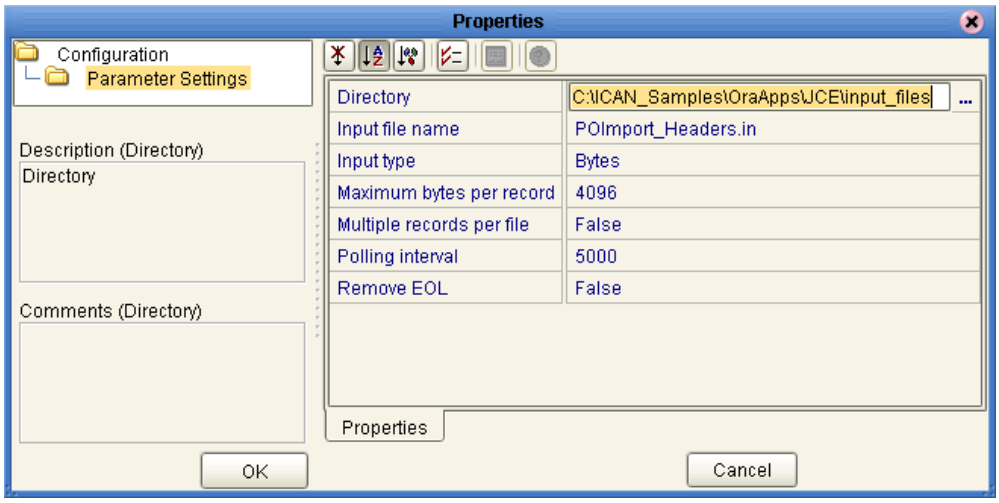
1. Before you can configure any of the components in the imported Project, you must first check them out of the Repository. To check out the Connectivity Map, right-click **CMap1**, click **Check Out**, and click **OK**.
2. Double-click **CMap1** to display the Connectivity Map.
3. Double-click the eWay icon between the **POI_Header_Input** external and the **POI_Header_IN_passthru1** Service (the upper icon in the following figure) to edit the eWay's properties.

Figure 18 eWay Icons



4. In the **Directory** field, type the location where you extracted the sample input files in step 2 of the previous procedure.

Figure 19 Input File Directory



5. Click **OK** to save the changes to the eWay's properties.
6. Repeat steps 3 through 5, double-clicking the eWay icon between the **POI_Lines_Input** external and the **POI_Lines_IN_passthru1** Service (the lower icon shown in Figure 19).

7 Similarly, configure the outbound file eWays to write the output files to an appropriate location, such as **C:\CAPS_Samples\OraApps\JCD\output_files**.

6.3.4 Create the Environment

To create the Environment

1 In the Environment Explorer tab of the Enterprise Explorer, right-click the Repository and click **New Environment**.

2 Right-click the new Environment and click **Rename**. Name the Environment **Orcl_Apps_JCD**.

3 Right-click the **Orcl_Apps_JCD** Environment and click **New Oracleapps External System** with the following settings:

- External System Name: **Oracle_Apps**
- External System Type: **Outbound Oracle Applications eWay**

4 Right-click the **Orcl_Apps_JCD** Environment and click **New File External System**. Create four File External Systems (Inbound and Outbound File eWays) with the settings found in the following table:

Table 12 Orcl_Apps Environment

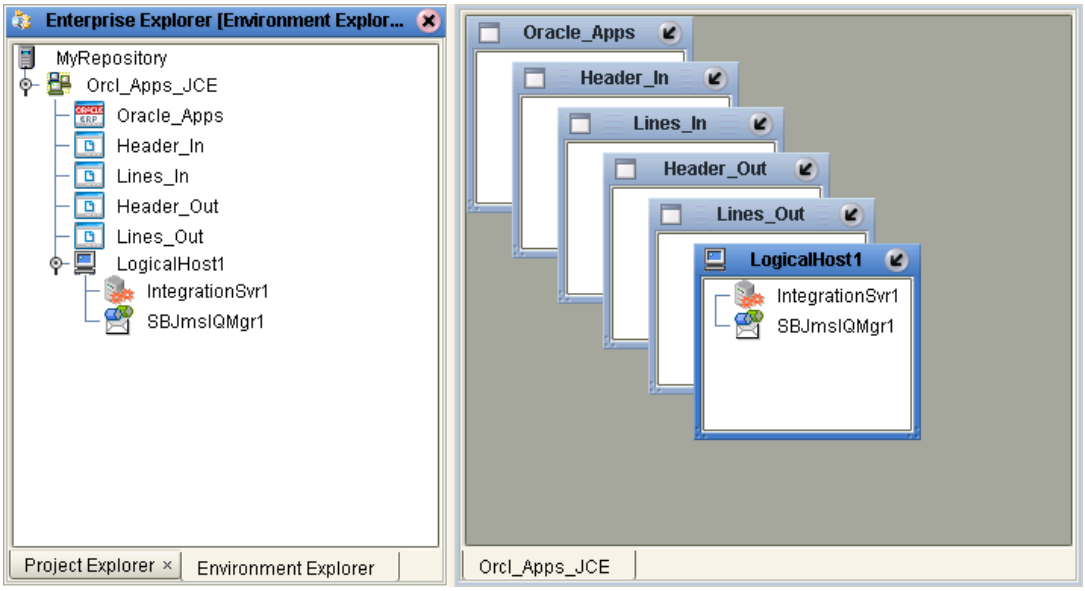
Name	External System Type
LogicalHost1	Logical Host
IntegrationSvr1	Sun SeeBeyond Integration Server
SBJmsIQMgr	Sun SeeBeyond JMS IQ Manager
Oracle_Apps	Outbound Oracle Applications eWay
Header_In	Inbound File eWay
Lines_In	Inbound File eWay
Header_Out	Outbound File eWay
Lines_Out	Outbound File eWay

5 Right-click the **Orcl_Apps_JCD** Environment and click **New Logical Host**. A new Logical Host—**LogicalHost1**—appears.

6 Right-click **LogicalHost1** and click N**ew Sun SeeBeyond Integration Server**. A new Integration Server—**IntegrationSvr1**—appears.

7 Right-click **LogicalHost1** and click N**ew Sun SeeBeyond JMS IQ Manager**. A new Integration Server—**SBJmsIQMgr1**—appears. The completed Environment must look like the one shown in the following figure.

Figure 20 Orcl_Apps_JCD Environment



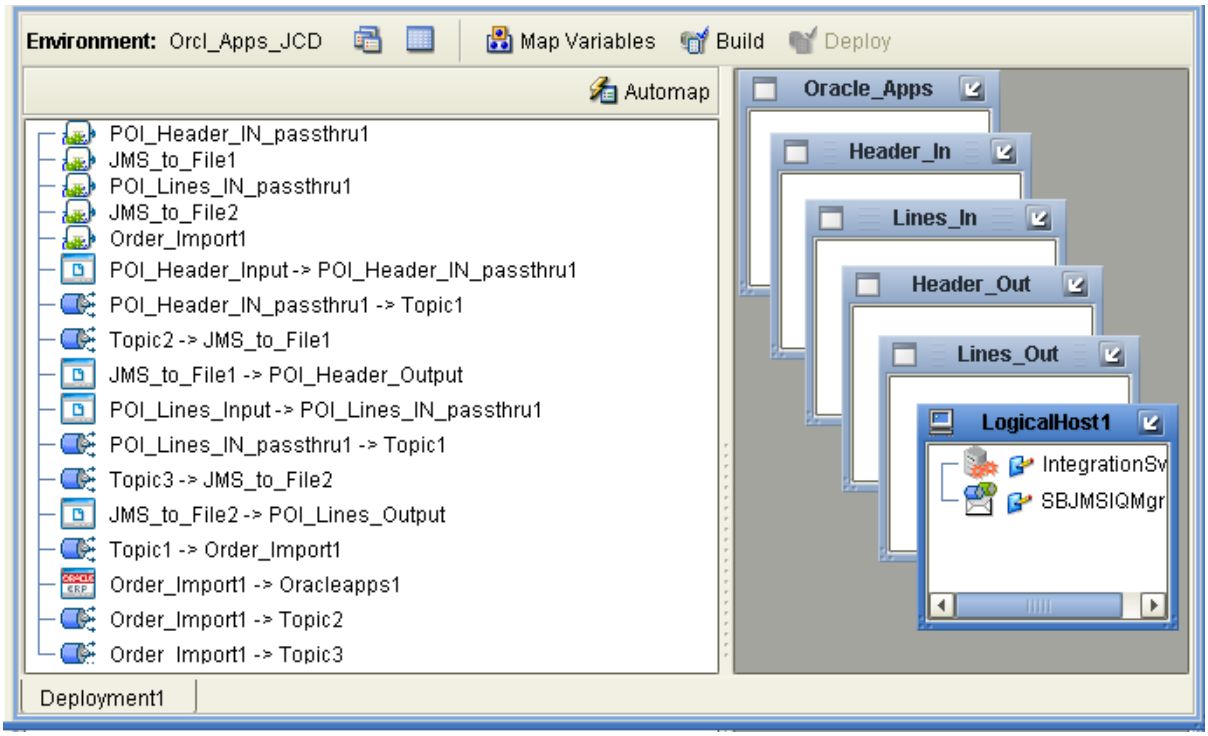
6.3.5 Create the Deployment Profile

To create the Deployment Profile

1. In the Project Explorer pane of the Enterprise Explorer, right-click the Project, click **New**, and click **Deployment Profile**.
2. Name the Deployment Profile **Deployment1**, select the **Orcl_Apps_JCD** Environment, and click **OK**.

   The Deployment Profile displays all of the components to be deployed as well as the Logical Host and the external systems.

Figure 21 New Deployment Profile



3 Drag the components to their corresponding Logical Host or external systems as shown in the following figures (Figure 22 through Figure 27):

Figure 22 Oracle_Apps Deployment

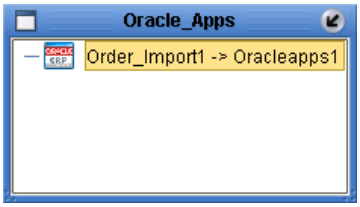


Figure 23 Header_In Deployment

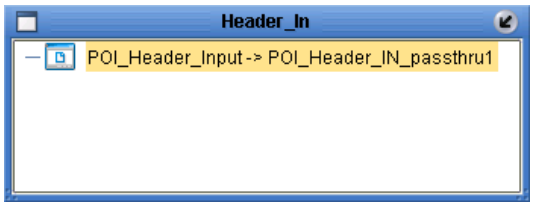


Figure 24 Lines_In Deployment

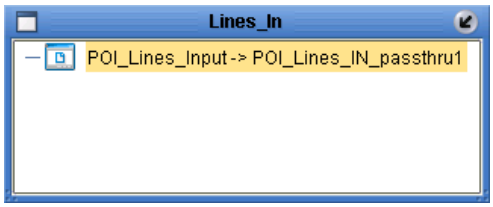


Figure 25 Header_Out Deployment

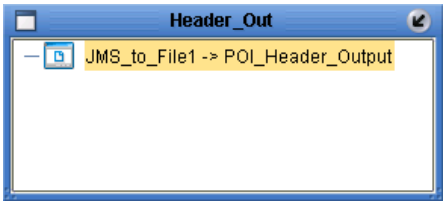


Figure 26 Lines_Out Deployment

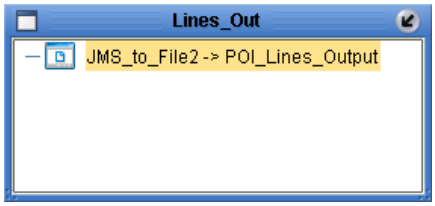
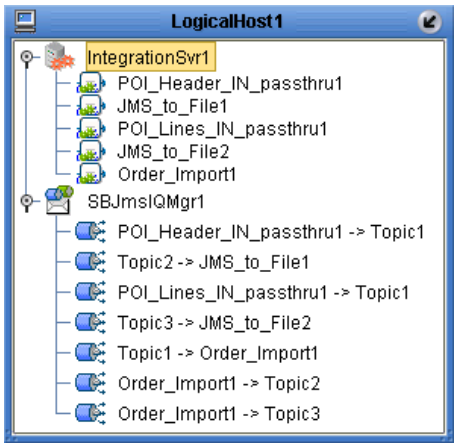


Figure 27 LogicalHost1 Deployment

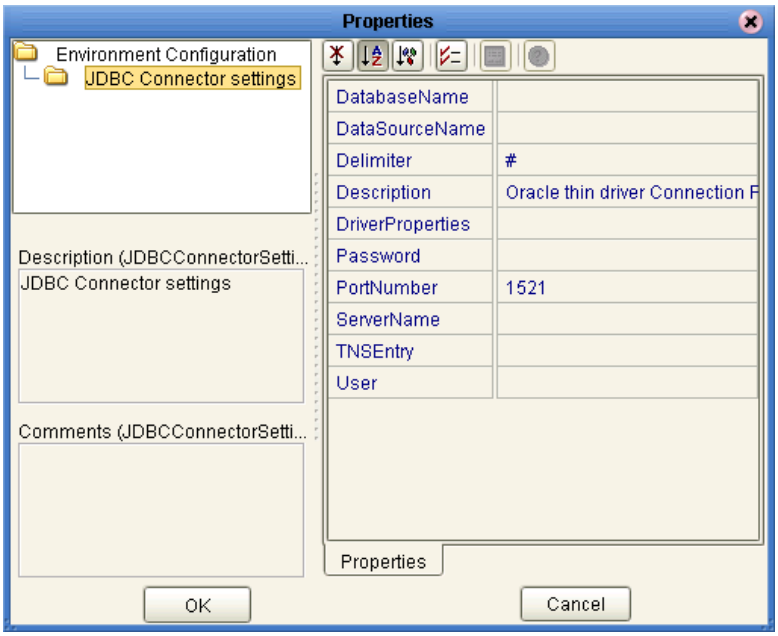


6.3.6 Configure the Oracle_Apps External System

To configure the Oracle _Apps External System

1 In the Environment Explorer tab of the Enterprise Explorer, right-click the **Oracle_Apps** external application and click **Properties**.

Figure 28 The Oracle_Apps External System



2 Enter the following information as appropriate for your Oracle Applications system:

- **DatabaseName**: The system identifier (SID) for your Oracle Applications server.
- **Password**: The password for your Oracle Applications server.
- **PortNumber**: The port number that your Oracle Applications is listening on.
- **ServerName**: The machine name or IP address of your Oracle Applications server.
- **User**: The user name for your Oracle Applications server.

3 Click **OK** to save the properties for the **Oracle_Apps** external application.

6.3.7 Deploying the Project

To deploy the Project

1 In the Project Explorer tab of the Enterprise Explorer pane, double-click the **Deployment1** Deployment Profile. The Deployment Profile appears.

2 Click **Build** to begin the deployment process.

3 When the activation success message appears, click **No** to avoid updating the Logical Host immediately. Since you have not yet run the Logical Host service, there is no active Logical Host for the Deployment to update.

6.3.8 Running the Sample Project

Running the sample

Additional steps are required to run the deployed sample Project.

Steps required to run the sample Project:

1. Rename one of the trigger files included in the sample Project from **<filename>.in.~in** to **<filename>.in** to run the corresponding operation.

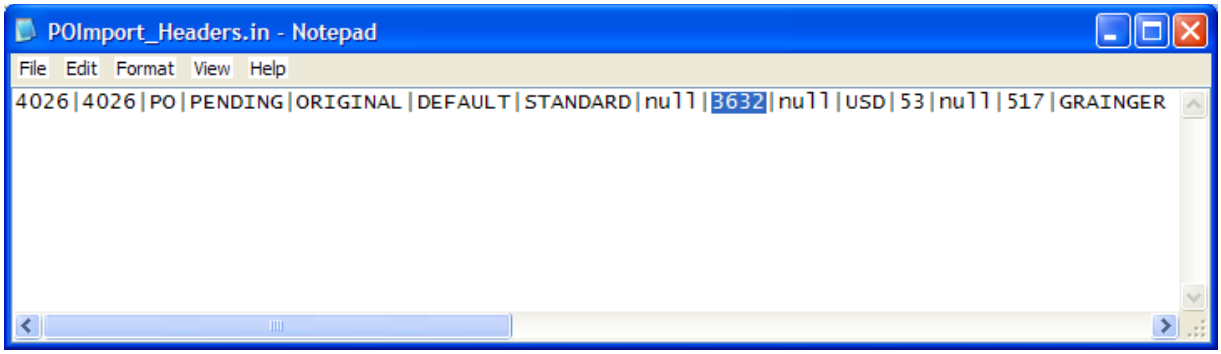
   The File eWay polls the directory every five seconds for the input file name (as defined in the Inbound File eWay Properties window). The data is then transformed and the File eWay sends the output to an Output file name (as defined in the outbound File eWay Properties window).

2. Verify the output data by viewing the sample output files. The output files may change depending on the number of times you execute the sample Project and the content of the input files.

Re-running the sample

Because the document number field in the back end database has a unique constraint, you cannot re-run the sample project without modifying the sample header input file (**POImport_Headers.in**). The Oracle database does not allow multiple records with the same document number to be inserted.

Figure 29 Input Header File – POImport_Headers.in

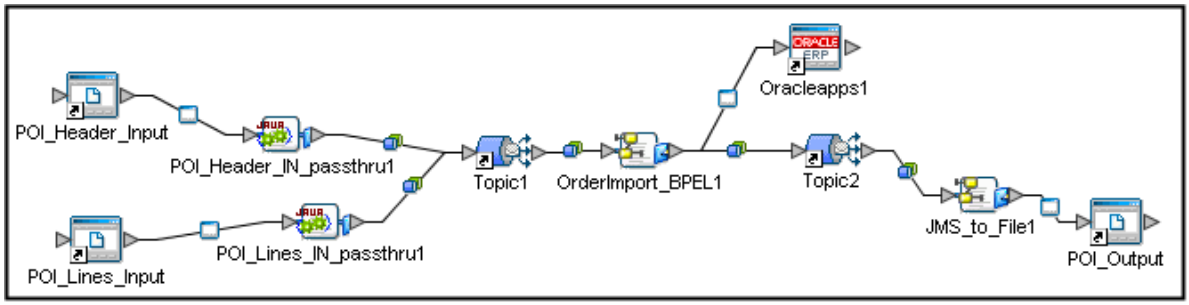


To update the header file, edit **POImport_Headers.in** and change the ninth field ("3632" in this example) to a unique number; for example, "3633".

6.4 Using the Order Import BPEL Sample

The Order Import BPEL sample project is similar to the previous sample in that the sample uses two file eWays to simulate an inbound order and forwards the order to the Oracle Applications system. However, rather than using a Java Collaboration, the BPEL sample uses an eInsight business process to exchange data with the Oracle Applications system. Additionally, the results are written to one output file rather than two.

Figure 30 The Order Import BPEL Sample



Sample Project Overview

This document does not cover the Order Import BPEL sample in the same level of detail as the previous sample. This section assumes that you have already read and worked through the Order Sample. This section provides the information you need to import, configure, and run the Order Import BPEL Sample:

1. Import the sample Project as described in **"Import the Order Import BPEL Sample" on page 79**.
2. Set up the sample data on your system as described in **"Set up the Sample Data" on page 80**.
3. Configure each of the three file eWays as described in **"Configure the File eWays" on page 80**.
4. Create an Environment for the Project as described in **"Create the Environment" on page 80**.
5. Create and configure the Deployment Profile as described in **"Create the Deployment Profile" on page 81**.
6. Configure the Oracleapps1 eWay—the eWay that exchanges the data with the Oracle Applications—as described in **"Configure the Oracle_Apps_BPEL External System" on page 81**.

6.4.1 Import the Order Import BPEL Sample

The process of importing the sample files for this Project is the same as that of the previous sample.

The name of the Project file to import is:

- **prjOraApp_Manf_Order_Import_BP_Sample.zip**

Look for this file in the location where you downloaded the sample files in step 4 of **procedure on page 71**. For example, **C:\CAPS_Samples\OraApps\BPEL**.

A message may appear warning you that you do not have the Oracle Applications eWay installed. This warning is not critical for this sample Project.

6.4.2 Set up the Sample Data

Use Windows Explorer to extract the input files (**input_files.zip**) to a convenient location; for example, **C:\CAPS_Samples\OraApps\BPEL\input_files**. Also create a directory for the output files; for example, **C:\CAPS_Samples\OraApps\BPEL\output**.

Make a note of the location where you extracted these files.

6.4.3 Configure the File eWays

In the Connectivity Map, Configure the two inbound file eWays and the outbound file eWay. For each of these eWays, enter the directory where the eWay reads the input or writes the output.

6.4.4 Create the Environment

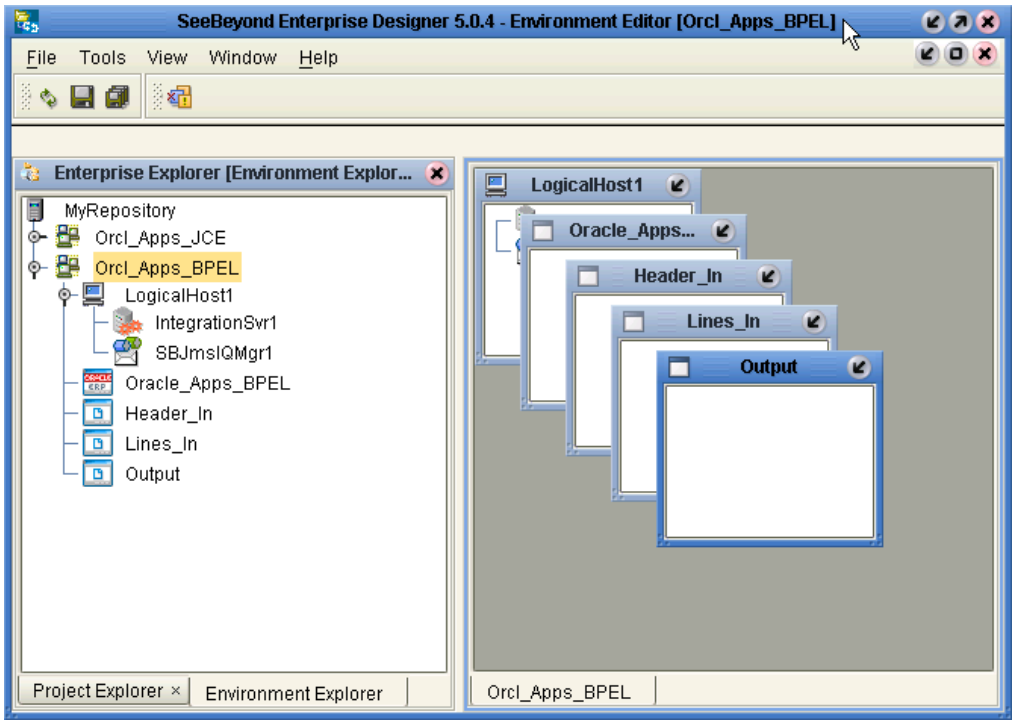
In the Environment Explorer, create a new Environment and add the following items:

Table 13 Orcl_Apps_BPEL Environment

Name	External System Type
LogicalHost1	Logical Host
IntegrationSvr1	Sun SeeBeyond Integration Server
SBJmsIQMgr	Sun SeeBeyond JMS IQ Manager
Oracle_Apps_BPEL	Outbound Oracle Applications eWay
Header_In	Inbound File eWay
Lines_In	Inbound File eWay
Output	Outbound File eWay

The Environment will look like the one in Figure 31:

Figure 31 Orcl_Apps_BPEL Environment



6.4.5 Create the Deployment Profile

In the Project Explorer, create a new Deployment Profile (as shown in **"Create the Deployment Profile" on page 74**) and configure the components similar to those shown in Figures 22 through 27—skipping figure 26 (since there is only one outbound file eWay).

6.4.6 Configure the Oracle_Apps_BPEL External System

In the Environment Explorer, configure the Oracle_Apps_BPEL external system the same way it is configured in **"Configure the Oracle_Apps External System" on page 76**.

6.4.7 Running the Sample Project

Additional steps are required to run the deployed sample Project.

Steps required to run the sample Project:

1. Rename one of the trigger files included in the sample Project from **<filename>.in.~in** to **<filename>.in** to run the corresponding operation.

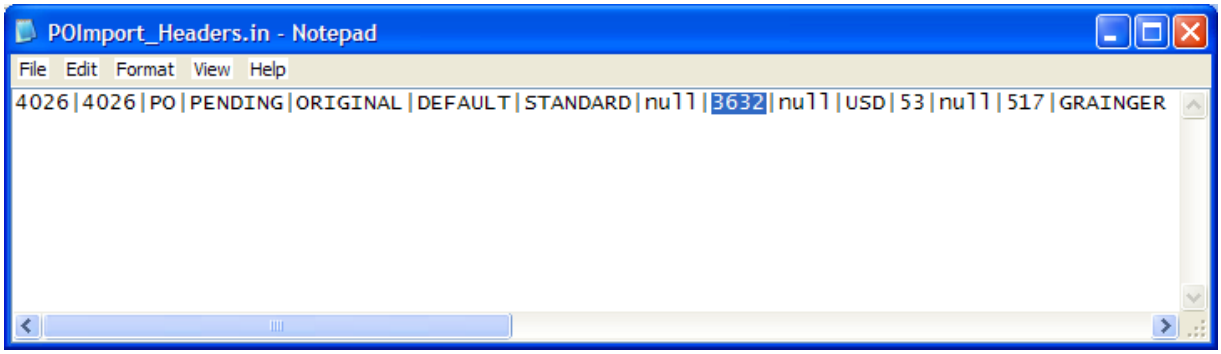
   The File eWay polls the directory every five seconds for the input file name (as defined in the Inbound File eWay Properties window). The data is then transformed and the File eWay sends the output to an Output file name (as defined in the outbound File eWay Properties window).

2 Verify the output data by viewing the sample output files. The output files may change depending on the number of times you execute the sample Project and the content of the input files.

Re-running the sample

Because the document number field in the back end database has a unique constraint, you cannot re-run the sample project without modifying the sample header input file (**POImport_Headers.in**). The Oracle database does not allow multiple records with the same document number to be inserted.

Figure 32 Input Header File – POImport_Headers.in

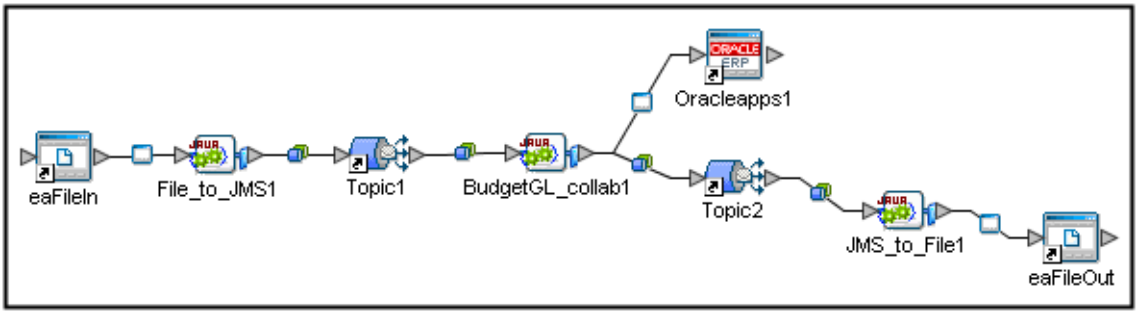


To update the header file, edit **POImport_Headers.in** and change the ninth field ("3632" in this example) to a unique number; for example, "3633".

6.5 Using the Financial GL-Budget JCD Sample

The Financial GL-Budget sample demonstrates the operation of the outbound Oracle Applications eWay by reading information from a file, writing the information to the appropriate Oracle Applications tables, and writing the results out to an output file.

Figure 33 The Financial GL-Budget JCD Sample



The input file represents information for a sample budget. The information would typically come from an external application via another eWay or from another upstream CAPS component.

Note: *For the validation process, Financial Budget GL samples use the following fields:*

- Currency Code
- Fiscal Year
- Update Logic Type
- Budget Entity Name

Sample Project Overview

To work with this sample, you must import the project into your CAPS Repository, configure the components for your environment, and run the Project. To import, configure, and run the Financial GL-Budget sample, you must follow these general steps:

1. Import the sample Project as described in **"Import the Financial GL-Budget JCD Sample" on page 84**.
2. Set up the sample data on your system as described in **"Set up the Sample Data" on page 85**.
3. Configure each of the four file eWays as described in **"Configure the File eWays" on page 85**.
4. Create an Environment for the Project as described in **"Create the Environment" on page 86**.
5. Create and configure the Deployment Profile as described in **"Create the Deployment Profile" on page 87**.

6 Configure the **Oracleapps1** eWay—the eWay that exchanges the data with Oracle Applications—as described in **"Configure the Oracle_Apps External System" on page 87**.

6.5.1 Import the Financial GL-Budget JCD Sample

To download the sample from the Enterprise Manager

1 From the **Documentation** page of your Enterprise Manager, click the link for the **Oracle Applications eWay Intelligent Adapter**. The Oracle Applications documentation page appears.

2 Click **Download Sample**.

3 When you are prompted to open or save the file, click **Open**. The sample .zip file opens in WinZip.

4 Use WinZip to extract the **Oracle_Applications_eWay_Sample.zip** files to a location on your local file system, such as **C:\CAPS_Samples\OraApps**. Make a note of where you extracted the files.

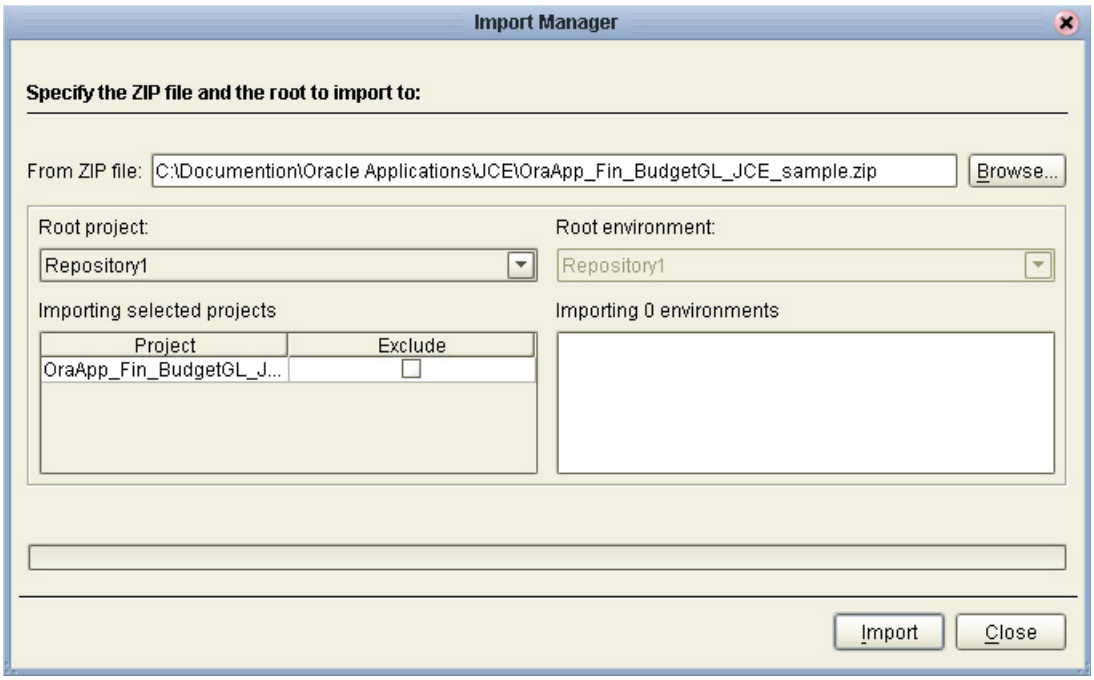
To import the sample in the Enterprise Designer

1 In the Enterprise Designer, right-click your Repository and click **Import**.

2 Click **Yes** to save any changes to your Repository. The Import Manager appears.

3 Click **Browse** and navigate to the location where you downloaded the sample files in step 4 of the previous procedure. In the **JCD** folder, select the **prjOraApp_Fin_BudgetGL_JCD_Sample.zip** file and click **Open**.

Figure 34 Import Manager



4 In the Import Manager, click **Import**.

5 An import status message appears when the import completes successfully. Click **OK** to continue.

6 Click **Close** to close the Import Manager and refresh the repository. The **prjOraApp_Fin_BudgetGL_JCD_Sample** appears in the Enterprise Explorer pane of the Enterprise Designer.

6.5.2 Set up the Sample Data

The **FileIN** external system uses an input file to simulate a transaction to be sent to the Oracle Applications system. These files must be extracted from the sample .zip files and copied to a location to be used by the input File eWays.

To set up the sample data

1 In Windows Explorer, navigate to the location where you extracted the sample .zip files in step 4 of the **procedure on page 84**; for example, **C:\CAPS_Samples\OraApps\JCD**.

2 Use WinZip to extract these files to a location where the input file eWay can access them at run time, such as **C:\CAPS_Samples\OraApps\JCD\Input_Files**.

Make a note of this location for later use.

6.5.3 Configure the File eWays

To configure the file eWays

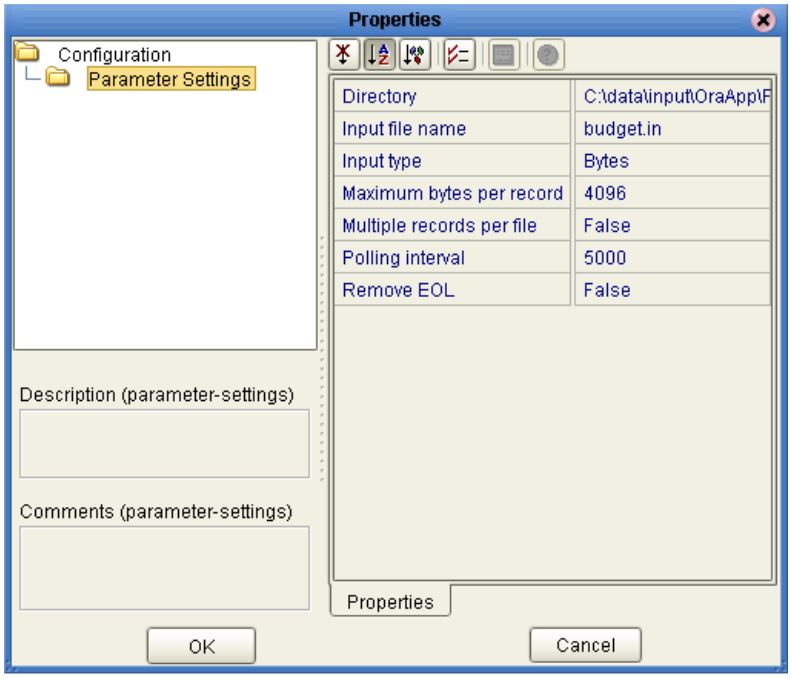
1 Before you can configure any of the components in the imported Project, you must first check them out of the Repository. To check out the Connectivity Map, right-click **CMap1**, click **Check Out**, and click **OK**.

2 Double-click **CMap1** to display the Connectivity Map.

3 Double-click the eWay icon between the **eaFileIN** external and the **File_to_JMS1** Service to edit the eWay's properties.

4 In the **Directory** field, type the location where you extracted the sample input files in step 2 of the previous procedure.

Figure 35 Input File Directory



5 Click **OK** to save the changes to the eWay's properties.

6 Similarly, configure the outbound file eWays to write the output files to an appropriate location, such as **C:\CAPS_Samples\OraApps\JCD\output_files**.

6.5.4 Create the Environment

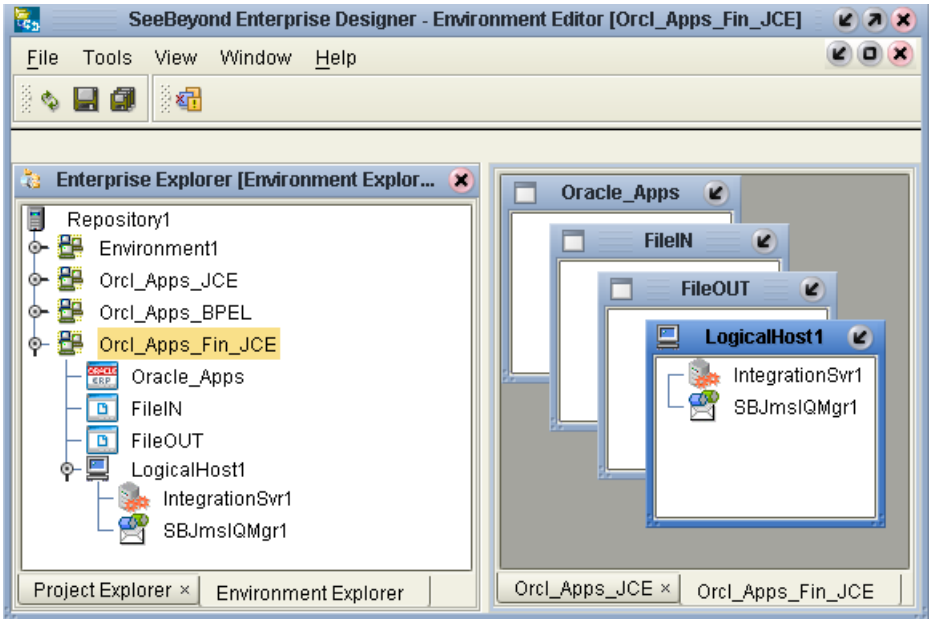
In the Environment Explorer, create a new Environment and add the following items:

Table 14 Oracle_Apps_Environment

Name	External System Type
LogicalHost1	Logical Host
IntegrationSvr1	Sun SeeBeyond Integration Server
SBJmsIQMgr	Sun SeeBeyond JMS IQ Manager
Oracle_Apps	Outbound Oracle Applications eWay
FileIN	Inbound File eWay
FileOUT	Outbound File eWay

The Environment will look like the one in the following diagram:

Figure 36 Orcl_Apps_Fin_JCD Environment



6.5.5 Create the Deployment Profile

To create the Deployment Profile

In the Project Explorer, create a new Deployment Profile (as shown in **"Create the Deployment Profile" on page 74**) and configure the components similar to those shown in Figures 22 through 27—skipping figure 26 (since there is only one outbound file eWay).

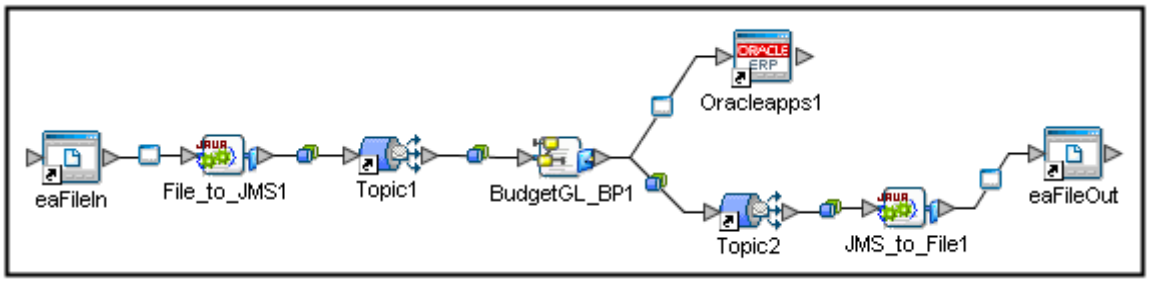
6.5.6 Configure the Oracle_Apps External System

In the Environment Explorer, configure the Oracle_Apps_BPEL external system the same way it is configured in **"Configure the Oracle_Apps External System" on page 76**.

6.6 Using the Financial GL-Budget BPEL Sample

The Financial GL-Budget BPEL sample project uses an eInsight business process to exchange data with the Oracle Applications system.

Figure 37 The Financial GL-Budget BPEL Sample



Note: *For the validation process, Financial Budget GL samples use the following fields:*

- Currency Code
- Fiscal Year
- Update Logic Type
- Budget Entity Name

Sample Project Overview

This document does not cover the sample in the same level of detail as the previous samples. This section assumes that you have already read and worked through the Order Sample. This section provides the information you need to import, configure, and run the Order Import BPEL Sample:

1. Import the sample Project as described in **"Import the Financial GL-Budget BPEL Sample" on page 88**.
2. Set up the sample data on your system as described in **"Set up the Sample Data" on page 89**.
3. Configure each of the three file eWays as described in **"Configure the File eWays" on page 89**.
4. Create an Environment for the Project as described in **"Create the Environment" on page 90**.
5. Create and configure the Deployment Profile as described in **"Create the Deployment Profile" on page 90**.
6. Configure the Oracleapps1 eWay—the eWay that exchanges the data with the Oracle Applications—as described in **"Configure the Oracle_Apps_Fin_BPEL External System" on page 91**.

6.6.1 Import the Financial GL-Budget BPEL Sample

When importing the sample, a message may appear warning you that you do not have the Oracle Applications eWay installed. This warning is not critical for this sample Project.

To download the sample from the Enterprise Manager

1. From the **Documentation** page of your Enterprise Manager, click the link for the **Oracle Applications eWay Intelligent Adapter**. The Oracle Applications documentation page appears.
2. Click **Download Sample**.
3. When you are prompted to open or save the file, click **Open**. The sample .zip file opens in WinZip.
4. Use WinZip to extract the **Oracle_Applications_eWay_Sample.zip** files to a location on your local file system, such as **C:\CAPS_Samples\OraApps**. Make a note of where you extracted the files.

To import the sample in the Enterprise Designer

1. In the Enterprise Designer, right-click your Repository and click **Import**.
2. Click **Yes** to save any changes to your Repository. The Import Manager appears.
3. Click **Browse** and navigate to the location where you downloaded the sample files in step 4 of the previous procedure. In the **JCD** folder, select the **prjOraApp_Fin_BudgetGL_BP_Sample.zip** file and click **Open**.

6.6.2 Set up the Sample Data

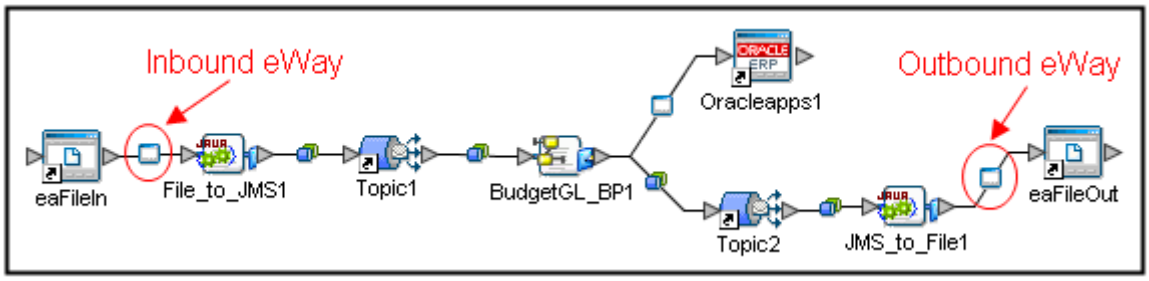
Use Windows Explorer to extract the input files (**input_files.zip**) to a convenient location; for example, **C:\CAPS_Samples\OraApps\BPEL\input_files**. Also create a directory for the output files; for example, **C:\CAPS_Samples\OraApps\BPEL\output**.

Make a note of the location where you extracted these files.

6.6.3 Configure the File eWays

In the Connectivity Map, configure the inbound file eWay and the outbound file eWay. For each of these eWays, enter the directory where the eWay reads the input or writes the output.

Figure 38 The File eWays



6.6.4 Create the Environment

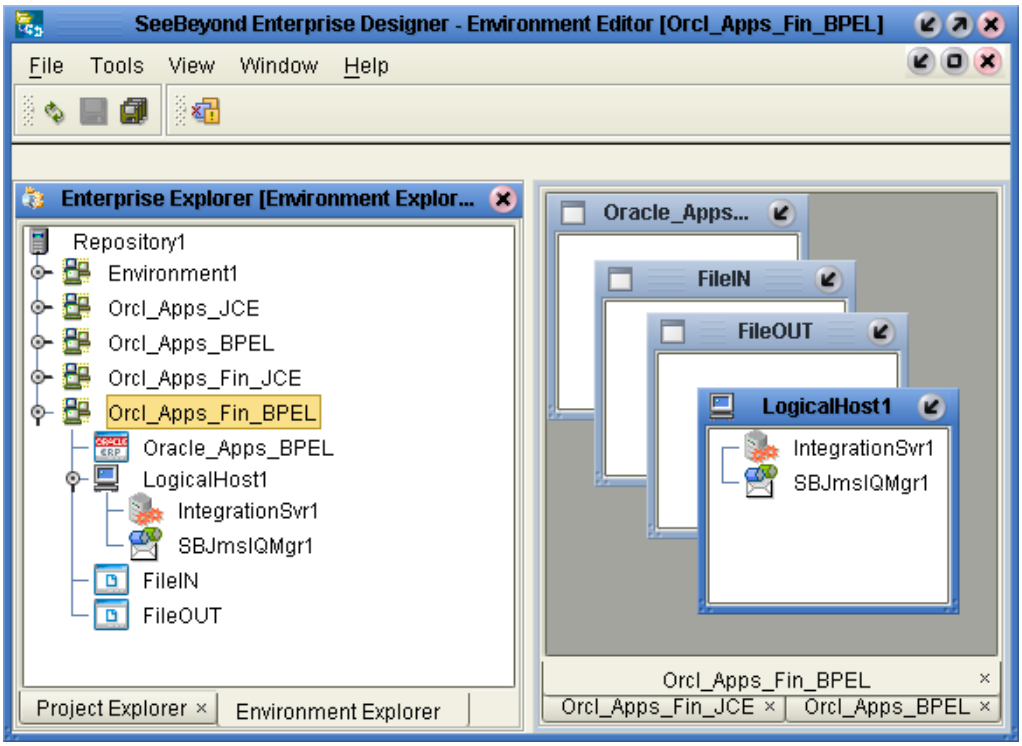
In the Environment Explorer, create a new Environment and add the following items:

Table 15 Orcl_Apps_BPEL Environment

Name	External System Type
LogicalHost1	Logical Host
IntegrationSvr1	Sun SeeBeyond Integration Server
SBJmsIQMgr	Sun SeeBeyond JMS IQ Manager
Oracleapps1	Outbound Oracle Applications eWay
FileIN	Inbound File eWay
FileOUT	Outbound File eWay

The Environment will look like the one in the following diagram:

Figure 39 Orcl_Apps_Fin_BPEL Environment



6.6.5 Create the Deployment Profile

In the Project Explorer, create a new Deployment Profile (as shown in **"Create the Deployment Profile" on page 74**) and configure the components similar to those shown in Figures 22 through 27—skipping figure 26 (since there is only one outbound file eWay).

6.6.6 Configure the Oracle_Apps_Fin_BPEL External System

In the Environment Explorer, configure the Oracle_Apps_BPEL external system the same way it is configured in **"Configure the Oracle_Apps External System" on page 76**.

Appendix A

Error Codes

This chapter provides a description of each of the error codes returned by the validation scripts. A description of the validation process is found in **"Pre-Validation Process" on page 35**.

What's in This Chapter

Note: *If new Error Codes are needed, you must drop the current sb_errors table and either manually or automatically (via the OTD builder) re-run the sb_install.sql script so that a new sb_errors table is created with new entries.*

A.1 Manufacturing

A.1.1 Inventory

Customer Items

Table 1 Customer Item Errors

Error Code	Error Message
SB-INVCIT-25301	Customer_Item_Number is mandatory and the current value is NULL.
SB-INVCIT-25302	Transaction_Type is mandatory and the current value is NULL.

Table 1 Customer Item Errors

Error Code	Error Message
SB-INVCIT-25303	Item_Definition_Level is mandatory and the current value is NULL.
SB-INVCIT-25304	Customer ID, Number and Name are mandatory and the current value is NULL.
SB-INVCIT-25305	Address columns are mandatory and the current value is NULL.
SB-INVCIT-25306	Customer category columns are mandatory and the current value is NULL.
SB-INVCIT-25307	Commodity code columns are mandatory and the current value is NULL.
SB-INVCIT-25308	Container item org columns are mandatory and the current value is NULL.
SB-INVCIT-25309	Model customer item columns are mandatory and the current value is NULL.
SB-INVCIT-25310	Customer_ID is invalid.
SB-INVCIT-25311	Customer_Number is invalid.
SB-INVCIT-25312	Customer_Name is invalid.
SB-INVCIT-25313	Address_ID is invalid.
SB-INVCIT-25314	Customer Category columns are invalid.
SB-INVCIT-25315	Model customer item columns are invalid.
SB-INVCIT-25316	Commodity code is inactive.
SB-INVCIT-25317	Constainer_item_org_id is invalid.
SB-INVCIT-25318	Inactive flag has invalid value.
SB-INVCIT-25319	Container_org_code is invalid.
SB-INVCIT-25320	Container org name is invalid.
SB-INVCIT-25321	Demand tolerance positive value is invalid.
SB-INVCIT-25322	Demand tolerance negative value is invalid.
SB-INVCIT-25323	Min_Fill_Percentage is invalid.
SB-INVCIT-25324	Departure plan required flag is invalid.
SB-INVCIT-25325	Departure plan build flag is invalid.
SB-INVCIT-25326	Departure plan flags combination is invalid.

Customer Item Cross-Reference

Table 2 Customer Item Cross-Reference Errors

Error Code	Error Message
SB-INVCCR-22601	Process_flag is mandatory and the current value is NULL.
SB-INVCCR-22602	Process_mode is mandatory and the current value is NULL.
SB-INVCCR-22603	Last_update_date is mandatory and the current value is NULL.
SB-INVCCR-22604	Last_updated_by is mandatory and the current value is NULL.
SB-INVCCR-22605	Creation_date is mandatory and the current value is NULL.
SB-INVCCR-22606	Created_by is mandatory and the current value is NULL.

Table 2 Customer Item Cross-Reference Errors

Error Code	Error Message
SB-INVCCR-22607	Transaction_Type is mandatory and the current value is NULL.
SB-INVCCR-22608	Cust_Item_Number is mandatory and the current value is NULL.
SB-INVCCR-22609	Preference_Number is mandatory and the current value is NULL.
SB-INVCCR-22610	Inactive_flag is mandatory and the current value is NULL.
SB-INVCCR-22611	Lock_flag is mandatory and the current value is NULL.
SB-INVCCR-22612	Cust_Category is mandatory and the current value is NULL.
SB-INVCCR-22613	Address is mandatory and the current value is NULL.
SB-INVCCR-22614	Item_Def_Level is mandatory and the current value is NULL.
SB-INVCCR-22615	Customer is mandatory and the current value is NULL.
SB-INVCCR-22616	Customer_ID is invalid.
SB-INVCCR-22617	Customer_No is invalid.
SB-INVCCR-22618	Customer_Name is invalid.
SB-INVCCR-22619	Address_Valid is invalid.
SB-INVCCR-22620	Cust_Cat_Code is invalid.
SB-INVCCR-22621	Customer_item_id is invalid.
SB-INVCCR-22622	Master_Organization_id is invalid.
SB-INVCCR-22623	Inventory_Item_id is invalid.
SB-INVCCR-22624	Inactive_Flag is invalid.

Cycle Count Entries

Table 3 Cycle Count Entry Errors

Error Code	Error Message
SB-INVCCE-23301	CC_ENTRY_INTERFACE_ID is mandatory and the current value is NULL.
SB-INVCCE-23302	ORGANIZATION_ID is mandatory and the current value is NULL.
SB-INVCCE-23303	ACTION_CODE is mandatory and the current value is NULL.
SB-INVCCE-23304	EMPLOYEE_ID is mandatory and the current value is NULL.
SB-INVCCE-23310	ADJUSTMENT_ACCOUNT_ID is invalid.
SB-INVCCE-23311	CYCLE_COUNT_ENTRY_ID is invalid.
SB-INVCCE-23312	CYCLE_COUNT_HEADER_ID is invalid.
SB-INVCCE-23313	LOCATOR_ID is invalid.
SB-INVCCE-23314	REVISION is invalid.
SB-INVCCE-23315	LOT_NUMBER is invalid.
SB-INVCCE-23316	ORGANIZATION_ID is invalid.
SB-INVCCE-23317	SUBINVENTORY is invalid.
SB-INVCCE-23318	SERIAL_NUMBER is invalid.

Table 3 Cycle Count Entry Errors

Error Code	Error Message
SB-INVCCE-23319	INVENTORY_ITEM_ID is invalid.
SB-INVCCE-23320	TRANSACTION_REASON_ID is invalid.
SB-INVCCE-23321	COUNT_UNIT_OF_MEASURE is invalid.
SB-INVCCE-23322	COUNT_UOM is invalid.
SB-INVCCE-23330	EMPLOYEE_ID value is not valid.
SB-INVCCE-23331	PROJECT_ID value is not valid.
SB-INVCCE-23332	TASK_ID value is not valid.
SB-INVCCE-23333	VALID_FLAG value is not valid.
SB-INVCCE-23334	DELETE_FLAG value is not valid.
SB-INVCCE-23335	LOCK_FLAG value is not valid.
SB-INVCCE-23336	PROCESS_FLAG value is not valid.
SB-INVCCE-23337	PROCESS_MODE value is not valid.
SB-INVCCE-23338	STATUS_FLAG value is not valid.

Items

Table 4 Item Errors

Error Code	Error Message
SB-INVITM-21301	Organization_Code or Organization_ID is mandatory and the current value is NULL.
SB-INVITM-21302	item_Number or Segment#s 1 to 20 is mandatory and the current value is NULL.
SB-INVITM-21303	Process_Flag is mandatory and the current value is NULL.
SB-INVITM-21304	Transaction_Type is mandatory and the current value is NULL.
SB-INVITM-21305	Set_Process_ID is mandatory and the current value is NULL.
SB-INVITM-21306	Summary_Flag is invalid.
SB-INVITM-21307	Enabled_Flag is invalid.
SB-INVITM-21308	Purchasing_Item_Flag is invalid.
SB-INVITM-21309	Shippable_Item_Flag is invalid.
SB-INVITM-21310	Customer_Order_Flag is invalid.
SB-INVITM-21311	Internal_Order_Flag is invalid.
SB-INVITM-21312	Service_Item_Flag is invalid.
SB-INVITM-21313	Service_Starting_Delay is less than Zero.
SB-INVITM-21314	Inventory_Item_Flag is invalid.
SB-INVITM-21315	Eng_Item_Flag is invalid.
SB-INVITM-21316	Inventory_Asset_Flag is invalid.

Table 4 Item Errors

Error Code	Error Message
SB-INVITM-21317	Purchasing_Enabled_Flag is invalid.
SB-INVITM-21318	Customer_Order_Enabled_Flag is invalid.
SB-INVITM-21319	Internal_Order_Enabled_Flag is invalid.
SB-INVITM-21320	So_Transactions_Flag is invalid.
SB-INVITM-21321	Mtl_Transactions_Enabled_Flag is invalid.
SB-INVITM-21322	Stock_Enabled_Flag is invalid.
SB-INVITM-21323	Bom_Enabled_Flag is invalid.
SB-INVITM-21324	Build_In_Wip_Flag is invalid.
SB-INVITM-21325	Allow_Item_Desc_Update_Flag is invalid.
SB-INVITM-21326	Receipt_Required_Flag is invalid.
SB-INVITM-21327	Rfq_Required_Flag is invalid.
SB-INVITM-21328	Planning_Time_Fence_Days is less than Zero.
SB-INVITM-21329	Pick_Components_Flag is invalid.
SB-INVITM-21330	Replenish_To_Order_Flag is invalid.
SB-INVITM-21331	ATP_Components_Flag is invalid.
SB-INVITM-21332	Cost_Of_Sales_Account is invalid.
SB-INVITM-21333	Sales_Account is invalid.
SB-INVITM-21334	Encumbrance_Account is invalid.
SB-INVITM-21335	Expense_Account is invalid.
SB-INVITM-21336	List_Price_Per_Unit is less than Zero.
SB-INVITM-21337	Taxable_Flag is invalid.
SB-INVITM-21338	Expense_Billable_Flag is invalid.
SB-INVITM-21339	Time_Billable_Flag is invalid.
SB-INVITM-21340	Service_Duration is invalid.
SB-INVITM-21341	Market_Price is less than Zero.
SB-INVITM-21342	Price_Tolerance_Percent is less than Zero.
SB-INVITM-21343	Shelf_Life_Days is less than Zero.
SB-INVITM-21344	Repetitive_Planning_Flag is invalid.
SB-INVITM-21345	Acceptable_Rate_Decrease is less than Zero.
SB-INVITM-21346	Acceptable_Rate_Increase is less than Zero.
SB-INVITM-21347	Assembly_Pegging_Flag is invalid.
SB-INVITM-21348	Postprocessing_Lead_Time is less than Zero.
SB-INVITM-21349	Vendor_Warranty_Flag is invalid.
SB-INVITM-21350	Serviceable_Component_Flag is invalid.
SB-INVITM-21351	Serviceable_Product_Flag is invalid.

Table 4 Item Errors

Error Code	Error Message
SB-INVITM-21352	Preventive_Maintenance_Flag is invalid.
SB-INVITM-21353	Ship_Model_Complete_Flag is invalid.
SB-INVITM-21354	Prorate_Service_Flag is invalid.
SB-INVITM-21355	Invoiceable_Item_Flag is invalid.
SB-INVITM-21356	Invoice_Enabled_Flag is invalid.
SB-INVITM-21357	Must_Use_Approved_Vendor_Flag is invalid.
SB-INVITM-21358	Outside_Operation_Flag is invalid.
SB-INVITM-21359	Costing_Enabled_Flag is invalid.
SB-INVITM-21360	Cycle_Count_Enabled_Flag is invalid.
SB-INVITM-21361	Auto_Created_Config_Flag is invalid.
SB-INVITM-21362	Container_Item_Flag is invalid.
SB-INVITM-21363	Vehicle_Item_Flag is invalid.
SB-INVITM-21364	Check_Org_ID_Code is invalid.
SB-INVITM-21365	Wip_Supply_Type is invalid.
SB-INVITM-21366	Lot_Control_Code is invalid.
SB-INVITM-21367	Shelf_Life_Code is invalid.
SB-INVITM-21368	Serial_Number_Control_Code is invalid.
SB-INVITM-21369	Restrict_Subinventories_Code is invalid.
SB-INVITM-21370	Restrict_Locators_Code is invalid.
SB-INVITM-21371	Planning_Time_Fence_Code is invalid.
SB-INVITM-21372	Bom_Item_Type is invalid.
SB-INVITM-21373	Allowed_Units_Lookup_Code is invalid.
SB-INVITM-21374	Inventory_Planning_Code is invalid.
SB-INVITM-21375	Planning_Make_Buy_Code is invalid.
SB-INVITM-21376	Mrp_Safety_Stock_Code is invalid.
SB-INVITM-21377	Material_Billable_Flag is invalid.
SB-INVITM-21378	Reservable_Type is invalid.
SB-INVITM-21379	Return_Inspection_Requirement is invalid.
SB-INVITM-21380	Mrp_Planning_Code is invalid.
SB-INVITM-21381	Location_Control_Code is invalid.
SB-INVITM-21382	ITEM DESCRIPTION FIELD CANNOT BE NULL.

Item Revisions

Table 5 Item Revision Errors

Error Code	Error Message
SB-INVREV-22500	Set_process_ID is mandatory and the current value is NULL.
SB-INVREV-22501	Inventory_Item_ID is mandatory and the current value is NULL.
SB-INVREV-22502	Organization_ID is mandatory and the current value is NULL.
SB-INVREV-22503	Revision is mandatory and the current value is NULL.
SB-INVREV-22504	Change_Notice is invalid.
SB-INVREV-22505	Organization_id is invalid.
SB-INVREV-22506	Inventory_item_id is invalid.
SB-INVREV-22507	Primary_key is invalid.
SB-INVREV-22508	Process_flag is invalid.
SB-INVREV-22509	Item_Number is invalid.

Replenishment

Master

Table 6 Replenishment Master Errors

Error Code	Error Message
SB-INVREP-22430	Header has lines that have failed validation.

Headers

Table 7 Replenishment Header Errors

Error Code	Error Message
SB-INVREP-22301	Replenishment_Header_ID is mandatory and the current value is NULL.
SB-INVREP-22302	Replenishment_Count_Name is mandatory and the current value is NULL.
SB-INVREP-22303	Count_Date is mandatory and the current value is NULL.
SB-INVREP-22304	Last_Update_Date is mandatory and the current value is NULL.
SB-INVREP-22305	Creation_Date is mandatory and the current value is NULL.
SB-INVREP-22306	Created_By is mandatory and the current value is NULL.
SB-INVREP-22307	Last_Updated_By is mandatory and the current value is NULL.
SB-INVREP-22308	Organization_ID is mandatory and the current value is NULL.
SB-INVREP-22309	SubInventory_Code is mandatory and the current value is NULL.
SB-INVREP-22310	Process_Status is mandatory and the current value is NULL.
SB-INVREP-22311	Process_Mode is mandatory and the current value is NULL.
SB-INVREP-22312	Organization_ID is invalid.

Table 7 Replenishment Header Errors

Error Code	Error Message
SB-INVREP-22313	SubInventory_Code is invalid.
SB-INVREP-22314	Error_Flag is invalid.
SB-INVREP-22315	Process_Mode is invalid.
SB-INVREP-22316	Process_Status is invalid.
SB-INVREP-22317	Replenish_Header is invalid.
SB-INVREP-22318	Replenish_Count is invalid.
SB-INVREP-22319	Last_Update is invalid.
SB-INVREP-22320	Lines is invalid.

Lines

Table 8 Replenishment Line Errors

Error Code	Error Message
SB-INVREP-22401	Replenishment_Header_ID is mandatory and the current value is NULL
SB-INVREP-22402	Replenishment_Line_ID is mandatory and the current value is NULL
SB-INVREP-22403	Last_Update_Date is mandatory and the current value is NULL
SB-INVREP-22404	Creation_Date is mandatory and the current value is NULL
SB-INVREP-22405	Created_By is mandatory and the current value is NULL
SB-INVREP-22406	Last_Update_Login is mandatory and the current value is NULL
SB-INVREP-22407	Last_Updated_By is mandatory and the current value is NULL
SB-INVREP-22408	Inventory_Item_ID is mandatory and the current value is NULL
SB-INVREP-22409	Count_Type_Code is mandatory and the current value is NULL
SB-INVREP-22410	Count_Quantity is mandatory and the current value is NULL
SB-INVREP-22411	Count_UOM is mandatory and the current value is NULL
SB-INVREP-22412	Count_UOM_Code is mandatory and the current value is NULL
SB-INVREP-22413	Organization_ID is invalid.
SB-INVREP-22414	Rep_Header_ID is invalid.
SB-INVREP-22415	Inventory_Item_ID is invalid.
SB-INVREP-22416	Count_Uom is invalid.
SB-INVREP-22417	Count_Uom_Code is invalid.
SB-INVREP-22418	Segment is invalid.
SB-INVREP-22419	Count_Type_Code is invalid.
SB-INVREP-22420	Organization_ID is invalid.
SB-INVREP-22421	Count_Type_Tracked is invalid.
SB-INVREP-22421	Count_Type_Tracked23 is invalid.
SB-INVREP-22422	Inventory_item is invalid.

Table 8 Replenishment Line Errors

Error Code	Error Message
SB-INVREP-22423	MinMAx_Plan is invalid.
SB-INVREP-22424	Count_Uom_Primary is invalid.

Transactions

Table 9 Transaction Errors

Error Code	Error Message
SB-INVTXN-20301	Source Code is mandatory and the current value is NULL.
SB-INVTXN-20302	Source Line ID is mandatory and the current value is NULL.
SB-INVTXN-20303	Source Header ID is mandatory and the current value is NULL.
SB-INVTXN-20304	Process Flag is mandatory and the current value is NULL.
SB-INVTXN-20305	Transaction Mode is mandatory and the current value is NULL.
SB-INVTXN-20306	Transaction Interface ID is mandatory and the current value is NULL.
SB-INVTXN-20307	Inventory Item ID is mandatory and the current value is NULL.
SB-INVTXN-20308	Organization ID is mandatory and the current value is NULL.
SB-INVTXN-20309	Transaction Quantity is mandatory and the current value is NULL.
SB-INVTXN-20310	Transaction UOM is mandatory and the current value is NULL.
SB-INVTXN-20311	Transaction Date is mandatory and the current value is NULL.
SB-INVTXN-20312	Transaction Source ID is mandatory and the current value is NULL.
SB-INVTXN-20313	Transaction Source Name is mandatory and the current value is NULL.
SB-INVTXN-20314	Transaction Type ID is mandatory and the current value is NULL.
SB-INVTXN-20319	Distribution Account ID is invalid.
SB-INVTXN-20320	Inventory Item ID is invalid.
SB-INVTXN-20321	Organization ID is invalid.
SB-INVTXN-20322	Acct Period ID is invalid.
SB-INVTXN-20323	Schedule ID is invalid.
SB-INVTXN-20324	Operation Seq Num is invalid.
SB-INVTXN-20325	Transportation Account is invalid.
SB-INVTXN-20326	Locator ID is invalid.
SB-INVTXN-20327	Transfer Organization is invalid.
SB-INVTXN-20328	Transfer Locator is invalid.
SB-INVTXN-20329	Revision is invalid.
SB-INVTXN-20330	SubInventory Code is invalid.
SB-INVTXN-20331	Transfer SubInventory is invalid.
SB-INVTXN-20332	Schedule Number is invalid.
SB-INVTXN-20333	Reason ID is invalid.

Table 9 Transaction Errors

Error Code	Error Message
SB-INVTXN-20334	Wip Entity Type is invalid.
SB-INVTXN-20335	Substitution Type ID is invalid.
SB-INVTXN-20344	Transaction Header ID is invalid.

Lots

Table 10 Transaction Lots Errors

Error Code	Error Message
SB-INVTXN-20336	Transaction Interface ID is mandatory and the current value is NULL.
SB-INVTXN-20337	Lot Number is mandatory and the current value is NULL.
SB-INVTXN-20338	Transaction Quantity is mandatory and the current value is NULL.
SB-INVTXN-20339	Transaction Temp ID is invalid.
SB-INVTXN-20340	Transaction Interface ID is invalid.

Serial Numbers

Table 11 Transaction Serial Number Errors

Error Code	Error Message
SB-INVTXN-20341	Transaction Interface ID is mandatory and the current value is NULL.
SB-INVTXN-20342	Fm Serial Number is mandatory and the current value is NULL.
SB-INVTXN-20343	Vendor Serial Number is invalid.

A.1.2 Purchase Order

Import

Master

Table 12 Import Master Errors

Error Code	Error Message
SB-POIMP-20001	Header record does not exist for Po_Header_ID.
SB-POIMP-25006	Header has lines that have failed validation.

Headers

Table 13 Import Header Errors

Error Code	Error Message
SB-POIMP-20002	Interface Header ID is mandatory and the current value is NULL.

Table 13 Import Header Errors

Error Code	Error Message
SB-POIMP-20003	Action is mandatory and the current value is NULL.
SB-POIMP-20004	Document Type Code is mandatory and the current value is NULL.
SB-POIMP-20006	Vendor Site Code is mandatory and the current value is NULL.
SB-POIMP-20007	Vendor Doc Num is mandatory and the current value is NULL.
SB-POIMP-20008	Action is mandatory and the current value is invalid.
SB-POIMP-20009	Document Type Code is mandatory and the current value is invalid.
SB-POIMP-20010	Vendor ID is invalid.
SB-POIMP-20011	From Type Lookup Code is invalid.
SB-POIMP-20012	Ship To Location ID is invalid.
SB-POIMP-20013	Terms ID is invalid.
SB-POIMP-20014	Ussgl Transaction Code is invalid.
SB-POIMP-20015	Buyer specified is invalid.
SB-POIMP-20016	Bill To Location ID is invalid.
SB-POIMP-20017	Vendor Site ID is invalid.
SB-POIMP-20018	Vendor Contact ID is invalid.
SB-POIMP-20019	From Header ID is invalid.
SB-POIMP-20020	Rate Type is invalid.
SB-POIMP-20021	Currency Code is invalid.
SB-POIMP-20022	Document Number is invalid.
SB-POIMP-20023	Buyer Name is invalid.
SB-POIMP-20024	Vendor Name or Vendor Num is invalid.
SB-POIMP-20025	Vendor Site Code is invalid.
SB-POIMP-20026	Vendor Contact is invalid.
SB-POIMP-20027	Ship To Location Code is invalid.
SB-POIMP-20028	Bill To Location Code is invalid.
SB-POIMP-20029	Payment Terms is invalid.
SB-POIMP-20030	Rfq Num is invalid.
SB-POIMP-20031	Amount Limit is less than Amount Agreed.
SB-POIMP-20032	Amount Limit is less than Min Release Amount.
SB-POIMP-20033	Amount Limit is less than Zero.
SB-POIMP-20088	Release Number is invalid.
SB-POIMP-25007	Document Type is Standard, so Action cannot be Update or Replace.
SB-POIMP-25008	Document Type is Standard, so Approval Status must be Incomplete.
SB-POIMP-25009	Vendor Doc Num does not exist.
SB-POIMP-25010	Vendor Doc Num already exists.

Table 13 Import Header Errors

Error Code	Error Message
SB-POIMP-25011	Release Date is reserved for future use and must be NULL.
SB-POIMP-25012	Document Num must have a unique value, Current value already exists.
SB-POIMP-25013	There must be at least one line per header document.
SB-POIMP-25014	Fob_Active is invalid.
SB-POIMP-25015	Freight_Terms_Active is invalid.
SB-POIMP-25016	Document_Sub_Type is invalid.
SB-POIMP-25017	Num_Of_Lines is invalid.

Lines

Table 14 Import Line Errors

Error Code	Error Message
SB-POIMP-20034	Interface Header ID is mandatory and the current value is NULL.
SB-POIMP-20035	Interface Line ID is mandatory and the current value is NULL.
SB-POIMP-20036	Organization ID is mandatory and the current value is NULL.
SB-POIMP-20037	Po Header ID not found for modification.
SB-POIMP-20038	Category ID is invalid.
SB-POIMP-20039	Line Type ID is invalid.
SB-POIMP-20040	Un Number ID is invalid.
SB-POIMP-20041	Hazard Class ID is invalid.
SB-POIMP-20042	Ussgl Transaction Code is invalid.
SB-POIMP-20043	Closed By is invalid.
SB-POIMP-20044	From Header ID is invalid.
SB-POIMP-20045	From Line ID is invalid.
SB-POIMP-20046	Tax Name is invalid.
SB-POIMP-20047	Item Revision is invalid.
SB-POIMP-20048	Unit Of Measure is invalid.
SB-POIMP-20049	Unit Of Measure is invalid for the Item ID/Organization ID.
SB-POIMP-20050	Item ID is invalid.
SB-POIMP-20052	Item is invalid.
SB-POIMP-20054	Uom Code is invalid.
SB-POIMP-20055	Line Type is invalid.
SB-POIMP-20056	Line Num is invalid.
SB-POIMP-20057	Shipment Num is invalid.
SB-POIMP-20058	Un Number is invalid.
SB-POIMP-20059	Hazard Class is invalid.

Table 14 Import Line Errors

Error Code	Error Message
SB-POIMP-20060	Ship To Organization Code is invalid.
SB-POIMP-20061	Ship To Location Code is invalid.
SB-POIMP-20062	Template Name is invalid.
SB-POIMP-20063	Payment Terms is invalid.
SB-POIMP-20064	Receiving Routing is invalid.
SB-POIMP-20065	Tax Code ID is invalid.
SB-POIMP-20066	Not To Exceed Price must be NULL since Allow Price Override Flag is N.
SB-POIMP-20067	Not To Exceed Price has to be greater or equal to Unit Price.
SB-POIMP-20068	Max Order Quantity must be greater than Min Order Quantity.
SB-POIMP-20069	Closed Code must be null for QUOTATION Document Type.
SB-POIMP-20070	Committed Amount must be null for QUOTATION Document Type.
SB-POIMP-20071	Market Price must be null for QUOTATION Document Type.
SB-POIMP-20072	Allow Price Override Flag must be null for QUOTATION Document Type.
SB-POIMP-20073	Not To Exceed Price must be null for QUOTATION Document Type.
SB-POIMP-20074	Negotiated By Preparer Flag must be null for QUOTATION Document Type.
SB-POIMP-20075	Capital Expense Flag must be null for QUOTATION Document Type.
SB-POIMP-20076	Min Release Amount for QUOTATION/BLANKET Document Type.
SB-POIMP-20077	Min Order Quantity is less than 0.
SB-POIMP-20078	Max Order Quantity is less than 0.
SB-POIMP-20079	Over Tolerance Error Flag must be either Y or N.
SB-POIMP-20080	Qty Rcv Tolerance must be NULL for BLANKET Document Type.
SB-POIMP-20081	Qty Rcv Exception Code must be NULL for BLANKET Document Type.
SB-POIMP-20082	Freight Carrier must be NULL for BLANKET Document Type.
SB-POIMP-20083	Fob must be NULL for BLANKET Document Type.
SB-POIMP-20084	Freight Terms must be NULL for BLANKET Document Type.
SB-POIMP-20085	Receipt Required Flag must be NULL for BLANKET Document Type.
SB-POIMP-20086	Inspection Required Flag must be NULL for BLANKET Document Type.
SB-POIMP-20087	Unit Price must not be NULL or < 0.
SB-POIMP-20088	Release Num is reserved for future use and must be NULL.
SB-POIMP-20089	Po Release ID is reserved for future use and must be NULL.
SB-POIMP-20090	Source Shipment ID is reserved for future use and must be NULL.
SB-POIMP-20091	Contract Num is reserved for future use and must be NULL.
SB-POIMP-20092	Type 1099 must be NULL.
SB-POIMP-20093	Receipt Days Exception Code must be NULL.
SB-POIMP-20094	Need By Date must be NULL.

Table 14 Import Line Errors

Error Code	Error Message
SB-POIMP-20095	Promised Date must be NULL.
SB-POIMP-20096	Closed Reason must be NULL.
SB-POIMP-20097	Closed Date must be NULL.
SB-POIMP-20098	Closed By must be NULL.
SB-POIMP-20099	Firm Flag must be NULL.
SB-POIMP-20100	Quantity must be greater than 0.
SB-POIMP-25001	Committed Amount must be greater than 0.
SB-POIMP-25002	Market Price must be greater than 0.
SB-POIMP-25003	Negotiated By Preparer Flag must be either Y or N.
SB-POIMP-25004	Capital Expense Flag must be either Y or N.
SB-POIMP-25005	Tax name and Tax Code ID must be NULL if Taxable Flag is NULL or N.
SB-POIMP-25014	FOB is inactive.
SB-POIMP-25015	Freight_Terms is inactive.

Receiving

Master

Table 15 Receiving Master Errors

Error Code	Error Message
SB-POREC-25006	Header has lines that have failed validation.

Headers

Table 16 Receiving Header Errors

Error Code	Error Message
SB-POREC-20100	Header_Interface_ID field is mandatory in RCV_HEADERS_INTERFACE table and current value is null.
SB-POREC-20101	Group_ID field is mandatory in RCV_HEADERS_INTERFACE table and current value is null.
SB-POREC-20102	Processing_Status_Code field is mandatory in RCV_HEADERS_INTERFACE table and current value is null.
SB-POREC-20103	Receipt_Source_Code field is mandatory in RCV_HEADERS_INTERFACE table and current value is null.
SB-POREC-20104	Transaction_Type field is mandatory in RCV_HEADERS_INTERFACE table and current value is null.
SB-POREC-20105	Value Required in Vendor_Name or Vendor_Num field in RCV_HEADERS_INTERFACE table and current value is null.

Table 16 Receiving Header Errors

Error Code	Error Message
SB-POREC-20106	Validation_Flag is mandatory in RCV_HEADERS_INTERFACE table and current value is null.
SB-POREC-20107	ASN_TYPE field in RCV_HEADERS_INTERFACE must be ASN or ASBN.
SB-POREC-20108	Processing_Status_Code field in RCV_HEADERS_INTERFACE must be PENDING.
SB-POREC-20109	Receipt_Source_Code field in RCV_HEADERS_INTERFACE must be VENDOR.
SB-POREC-20110	Transaction_Type field in RCV_HEADERS_INTERFACE must be NEW or CANCEL.
SB-POREC-20111	Validation_Flag field in RCV_HEADERS_INTERFACE must be Y or N.
SB-POREC-20112	Auto_Transact_Code field in RCV_HEADERS_INTERFACE must be SHIP or RECEIVE or DELIVER.
SB-POREC-20113	Receipt_Num cannot be NULL when Auto_Transact_Code is SHIP.
SB-POREC-20114	Shipped_Date cannot be NULL when Asn_Type is ASN or ASBN.
SB-POREC-20115	Invoice_Num cannot be NULL when Asn_Type is ASBN.
SB-POREC-20116	Invoice_Date cannot be NULL when Asn_Type is ASBN.
SB-POREC-20117	Total_Invoice_Amount cannot be NULL or negative when Asn_Type is ASBN.
SB-POREC-20118	Both Employee_ID and Employee_Name cannot be null when Auto_Transact_Code is RECEIVE.
SB-POREC-20119	Invalid Vendor_Name.
SB-POREC20189	Shipped_Date cannot be earlier than SYSDATE or EXPECTED_RECEIPT_DATE.
SB-POREC20190	Invalid Employee_name.

Transactions

Table 17 Receiving Transaction Errors

Error Code	Error Message
SB-POREC-20120	Interface_Transaction_ID field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20121	Group_ID field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20122	Transaction_Type field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20123	Transaction_Date field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20124	Processing_Status_Code field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20125	Processing_Mode_Code field is mandatory in rcv_transactions_interface table and current value is null.

Table 17 Receiving Transaction Errors

Error Code	Error Message
SB-POREC-20126	Transaction_Status_Code field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20127	Quantity field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20128	Unit_Of_Measure field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20129	Item_Description field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20130	Value required in Document_Line_Num or Item_Num or Vendor_Item_Num or Item_ID or Po_Line_ID in rcv_transactions_interface table and currently all are null.
SB-POREC-20131	Auto_Transact_Code field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20132	Receipt_Source_Code field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20133	Vendor_Site_ID field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20134	Value required in either Vendor_Name or Vendor_Num fields in rcv_transactions_interface table and currently both are null.
SB-POREC-20135	Source_Document_Code field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20136	Value required in Document_Num or Po_Header_ID and currently both are null.
SB-POREC-20137	Header_Interface_ID field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20138	Validation_Flag field is mandatory in rcv_transactions_interface table and current value is null.
SB-POREC-20139	FK Validation. Invalid Routing_Header_ID.
SB-POREC-20140	FK Validation. Invalid Routing_Step_ID.
SB-POREC-20141	FK Validation. Invalid Parent_Transaction_ID.
SB-POREC-20142	FK Validation. Invalid Po_Header_ID.
SB-POREC-20143	FK Validation. Invalid Po_Line_ID.
SB-POREC-20144	FK Validation. Invalid Po_Line_Location_ID.
SB-POREC-20145	FK Validation. Invalid Inv_Transaction_ID.
SB-POREC-20146	FK Validation. Invalid Po_Distribution_ID.
SB-POREC-20147	FK Validation. Invalid Po_Release_ID.
SB-POREC-20148	Foreign Key Validation. Invalid Requisition_Line_ID.
SB-POREC-20149	FK Validation. Invalid Requisition_Distribution_ID.
SB-POREC-20150	FK Validation. Invalid Inspection_Quality_Code.
SB-POREC-20151	FK Validation. Invalid Charge_Account_ID.

Table 17 Receiving Transaction Errors

Error Code	Error Message
SB-POREC-20152	FK Validation. Invalid Employee_ID.
SB-POREC-20153	FK Validation. Invalid Wip_Entity_ID.
SB-POREC-20154	FK Validation. Invalid Item_ID.
SB-POREC-20155	FK Validation. Invalid Transportation_Account_ID.
SB-POREC-20156	FK Validation. Invalid Wip_Line_ID.
SB-POREC-20157	FK Validation. Invalid Repetitive_Schedule_ID.
SB-POREC-20158	Foreign Key Validation. Invalid Wip_Entity_ID for wip_operations.
SB-POREC-20159	FK Validation. Invalid Wip_Entity_ID for wip_operations_resources.
SB-POREC-20160	FK Validation. Invalid Bom_Resource_ID.
SB-POREC-20161	FK Validation. Invalid Department_Code.
SB-POREC-20162	FK Validation. Invalid Freight_Carrier_Code.
SB-POREC-20163	FK Validation. Invalid SubInventory.
SB-POREC-20164	FK Validation. Invalid Locator_ID.
SB-POREC-20165	FK Validation. Invalid Uom_Code.
SB-POREC-20166	FK Validation. Invalid Currency_Conversion_Type.
SB-POREC-20167	FK Validation. Invalid Reason_ID.
SB-POREC-20168	FK Validation. Invalid Source_Doc_Unit_Of_Measure.
SB-POREC-20170	FK Validation. Invalid Shipment_Header_ID.
SB-POREC-20171	FK Validation. Invalid Shipment_Line_ID.
SB-POREC-20172	FK Validation. Invalid Primary_Unit_Of_Measure.
SB-POREC-20173	Value required in any one of Item_Category or Category_ID or Document_Line_Num or Po_Line_ID field in rcv_transactions_interface.
SB-POREC-20174	Transaction_Type must be SHIP or RECEIVE.
SB-POREC-20175	Processing_Status_Code must be PENDING.
SB-POREC-20176	Processing_Mode_Code must be BATCH.
SB-POREC-20177	Auto_Transact_Code must be RECEIVE or DELIVER or SHIP.
SB-POREC-20178	Receipt_Source_Code must be VENDOR.
SB-POREC-20179	Source_Document_Code must be PO.
SB-POREC-20180	Header_Interface_ID value not found in rcv_headers_interface.
SB-POREC-20181	Validation_Flag must be Y or N.
SB-POREC-20182	Employee_ID cannot be null when Transaction_Type is DELIVER.
SB-POREC-20183	Valid Group_ID not found in rcv_headers_interface.
SB-POREC-20184	Invalid Ship_To_Location_Code or Ship_To_Location_ID when ASN_TYPE is ASN.
SB-POREC-20185	To_Organization_Code and To_Organization_ID, both cannot be null.

Table 17 Receiving Transaction Errors

Error Code	Error Message
SB-POREC-20186	There must be a valid Destination_Type_Code when Auto_Transact_Code is DELIVER.
SB-POREC-20187	Invalid Expected_Receipt_Date.
SB-POREC-20188	Transaction_Status_Code must be ERROR or COMPLETED.
SB-POREC-20191	Invalid Item_Category.
SB-POREC-20192	Invalid Location_Code.
SB-POREC-20193	Invalid Vendor_Name.
SB-POREC-20194	Invalid Vendor_Num.

Requisitions

Table 18 Requisition Errors

Error Code	Error Message
SB-POREQ-20100	Interface_Source_Code is mandatory and the current value is NULL.
SB-POREQ-20101	Destination_Type_Code is mandatory and the current value is NULL.
SB-POREQ-20102	Authorization_Status is mandatory and the current value is NULL.
SB-POREQ-20103	Quantity is mandatory and the current value is NULL.
SB-POREQ-20104	Preparer_ID and Preparer_Name values are NULL. Either one must have a value.
SB-POREQ-20105	Charge_Account_ID and Charge_Account_Segment1 values are NULL. Either one must have a value.
SB-POREQ-20106	Destination_Organization_ID and Destination_Organization_Code values are NULL. Either one must have a value.
SB-POREQ-20107	Deliver_To_Location_ID and Deliver_To_Location_Code values are NULL. Either one must have a value.
SB-POREQ-20108	Deliver_To_Requestor_ID and Deliver_To_Requestor_Name values are NULL. Either one must have a value.
SB-POREQ-20109	If Currency_Code value present Rate_Date and Rate_Type are mandatory.
SB-POREQ-20110	If Project_Accounting_Context is Y then you must enter relevent project accounting info like project_id,task_id,expenditure_type and expenditure_org_id.
SB-POREQ-20111	If Destination_Type_code is INVENTORY then you must enter Destination_Subinventory and Item_ID.
SB-POREQ-20112	If Source_Type_Code is INVENTORY then you must enter Item_ID.
SB-POREQ-20113	If Destination_Type_Code is EXPENSE or SHOP FLOOR then you must Source_Type_Code.
SB-POREQ-20114	Requisition_Type value either INTERNAL or PURCHASE.
SB-POREQ-20115	Requisition Header ID is invalid,FK validation failed against po_requisition_headers_all table.

Table 18 Requisition Errors

Error Code	Error Message
SB-POREQ-20116	Category ID is invalid,FK validation failed against mtl_categories_b table.
SB-POREQ-20117	Unit_Of_Measure is invalid,FK validation failed against mtl_units_of_measure_tl table.
SB-POREQ-20118	Line_Type_ID is invalid,FK validation failed against po_line_types_b table.
SB-POREQ-20119	UN_Number_ID is invalid,FK validation failed against po_un_numbers_b table.
SB-POREQ-20120	Hazard_Class_ID is invalid,FK validation failed against po_hazard_classes_b table.
SB-POREQ-20121	WIP_Entity_ID is invalid,FK validation failed against wip_entities table.
SB-POREQ-20122	WIP_Line_ID is invalid,FK validation failed against wip_lines table.
SB-POREQ-20123	WIP_Entity_ID or Dest_Org_ID or Wip_Operation_Seq_Num or Wip_Rept_Sch_ID either one is invalid,FK validation failed against wip_operations table.
SB-POREQ-20124	WIP_Entity_ID or Dest_Org_ID or Wip_Operation_Seq_Num or Wip_Rept_Sch_ID or Resource_Seq_Num either one is invalid,FK validation failed against wip_operation_resources table.
SB-POREQ-20125	WIP_Repetitive_Schedule_ID or Dest_Org_ID either one is invalid,FK validation failed against wip_repetitive_schedules table.
SB-POREQ-20126	Requisition_Line_ID is invalid,FK validation failed against po_requisition_lines_all table.
SB-POREQ-20127	Src_Org_ID is invalid,FK validation failed against org_organization_definitions table.
SB-POREQ-20128	Dest_Org_ID is invalid,FK validation failed against org_organization_definitions table.
SB-POREQ-20129	Source_Subinventory is invalid for a given Src_Org_ID,FK validation failed against MTL_Secondary_Inventories table.
SB-POREQ-20130	Destination_Subinventory is invalid for a given Dest_Org_ID,FK validation failed against MTL_Secondary_Inventories table.
SB-POREQ-20131	Deliver_To_Requestor_ID is invalid,FK validation failed against hr_employees table.
SB-POREQ-20132	Suggested_Buyer_ID is invalid,FK validation failed against po_agents table.
SB-POREQ-20133	Suggested_Vendor_ID is invalid,FK validation failed against po_vendors table.
SB-POREQ-20134	Suggested_Vendor_Site_ID is invalid,FK validation failed against po_vendor_sites_all table.
SB-POREQ-20135	Req_Distribution_ID is invalid,FK validation failed against Po_Req_Distributions_All table.
SB-POREQ-20136	Suggested_Vendor_Contact_ID is invalid,FK validation failed against Po_Vendor_Contacts table.
SB-POREQ-20137	Note1_ID is invalid,FK validation failed against Po_Notes table.

Table 18 Requisition Errors

Error Code	Error Message
SB-POREQ-20138	Accrual_Account_ID is invalid,FK validation failed against Gl_Code_Combinations table.
SB-POREQ-20139	Variance_Account_ID is invalid,FK validation failed against Gl_Code_Combinations table.
SB-POREQ-20140	Budget_Account_ID is invalid,FK validation failed against Gl_Code_Combinations table.
SB-POREQ-20141	Ussgl_Transaction_Code is invalid,FK validation failed against gl_ussgl_transaction_codes table.
SB-POREQ-20142	Currency_Code is invalid,FK validation failed against fnd_currencies table.
SB-POREQ-20143	Rate is invalid,FK validation failed against gl_daily_conversion_rates_r10 table.
SB-POREQ-20144	Rate_Type is invalid,FK validation failed against gl_daily_conversion_types table.
SB-POREQ-20145	Approver_ID is invalid,FK validation failed against hr_employees table.
SB-POREQ-20146	Autosource_Doc_Header_ID is invalid,FK validation failed against po_autosource_documents_all table.
SB-POREQ-20147	Project_ID is invalid,FK validation failed against pa_projects_all table.
SB-POREQ-20148	Task_ID is invalid,FK validation failed against pa_tasks table.
SB-POREQ-20149	Note2_ID is invalid,FK validation failed against po_notes table.
SB-POREQ-20150	Note3_ID is invalid,FK validation failed against po_notes table.
SB-POREQ-20151	Note4_ID is invalid,FK validation failed against po_notes table.
SB-POREQ-20152	Note5_ID is invalid,FK validation failed against po_notes table.
SB-POREQ-20153	Note6_ID is invalid,FK validation failed against po_notes table.
SB-POREQ-20154	Note7_ID is invalid,FK validation failed against po_notes table.
SB-POREQ-20155	Note8_ID is invalid,FK validation failed against po_notes table.
SB-POREQ-20156	Note9_ID is invalid,FK validation failed against po_notes table.
SB-POREQ-20157	Note10_ID is invalid,FK validation failed against po_notes table.
SB-POREQ-20158	Expenditure_Type is invalid,FK validation failed against pa_expenditure_types table.
SB-POREQ-20159	Document_Type_Code is invalid,FK validation failed against po_document_types_all_b table.
SB-POREQ-20160	Kanban_Card_ID is invalid,FK validation failed against mtl_kanban_cards table.
SB-POREQ-20161	Preparer_ID is invalid,FK validation failed against hr_employees table.
SB-POREQ-20162	Item_ID is invalid,FK validation failed against mtl_system_items_b table.
SB-POREQ-20163	Item_Revision is invalid,FK validation failed against mtl_item_revisions table.
SB-POREQ-20164	Charge_Account_ID is invalid,FK validation failed against gl_code_combinations table.

Table 18 Requisition Errors

Error Code	Error Message
SB-POREQ-20165	If Dest_Type_Code is INVENTORY then item must be stock enabled for dest org. If Dest_Subinventory present then item must be valid either in subinventory or to a subinventory.
SB-POREQ-20166	If Dest_Type_Code is EXPENSE then item must be purchasing enabled for purchasing and dest org.
SB-POREQ-20167	If Dest_Type_Code is SHOP FLOOR then item must be an outise-operation item and purchasing enabled for purchasing and dest org.
SB-POREQ-20168	If Src_Type_Code is INVENTORY then the item must be stock enabled for the src org and internal-order-enabled for the purchasing.
SB-POREQ-20169	If Src_Type_Code is VENDOR then the item must be purchasing enabled for the purchasing and dest org id.
SB-POREQ-20170	Deliver_To_Location_ID is invalid,FK validation failed against Hr_Locations table.
SB-POREQ-20171	category_id is invalid for the given item.

A.2 Financial Budget-GL

A.2.1 Accounts Payable

Table 19 Accounts Payable Errors

Error Code	Error Message
SB-AP-INVOICE-20000	INVOICE_ID cannot be NULL.
SB-AP-INVOICE-20001	PO_NUMBER does not exist in PO_HEADERS.
SB-AP-INVOICE-20002	VENDOR_ID does not exist in PO_VENDORS.
SB-AP-INVOICE-20003	VENDOR_NUM does not exist in PO_VENDORS.
SB-AP-INVOICE-20004	VENDOR_NAME does not exist in PO_VENDORS.
SB-AP-INVOICE-20005	VENDOR_SITE_ID does not exist in PO_VENDOR_SITES.
SB-AP-INVOICE-20006	VENDOR_SITE_CODE does not exist in PO_VENDOR_SITES.
SB-AP-INVOICE-20007	INVOICE_CURRENCY_CODE does not exist in FND_CURRENCIES.
SB-AP-INVOICE-20008	EXCHANGE_RATE_TYPE does not exist in GL_DAILY_CONVERSION_TYPES.
SB-AP-INVOICE-20009	TERMS_ID does not exist in AP_TERMS.
SB-AP-INVOICE-20010	TERMS_NAME does not exist in AP_TERMS.
SB-AP-INVOICE-20011	AWT_GROUP_ID does not exist in AP_AWT_GROUPS.
SB-AP-INVOICE-20012	AWT_GROUP_NAME does not exist in AP_AWT_GROUPS.
SB-AP-INVOICE-20013	PREPAY_NUM does not exist in AP_INVOICES.
SB-AP-INVOICE-20020	INVOICE_TYPE_LOOKUP_CODE does not exist in AP_LOOKUP_CODES.

Table 19 Accounts Payable Errors

Error Code	Error Message
SB-AP-INVOICE-20021	PAYMENT_METHOD_LOOKUP_CODE does not exist in AP_LOOKUP_CODES.
SB-AP-INVOICE-20022	SOURCE does not exist in AP_LOOKUP_CODES.
SB-AP-INVOICE-20023	INVOICE_NUM cannot be NULL.
SB-AP-INVOICE-20024	SOURCE cannot be NULL.
SB-AP-INVOICE-20025	INVOICE_NUM and VENDOR_ID should be unique in AP_INVOICES_ALL.
SB-AP-INVOICE-20026	VENDOR_ID or VENDOR_NUM or VENDOR_NAME or PO_NUMBER should be entered.
SB-AP-INVOICE-20027	VENDOR_SITE_ID or VENDOR_SITE_CODE or PO_NUMBER should be entered.
SB-AP-INVOICE-20028	EXCHANGE_RATE required if INVOICE_CURRENCY_CODE is entered and EXCHANGE_RATE_TYPE is User.
SB-AP-INVOICE-20029	EXCHANGE_DATE required if INVOICE_CURRENCY_CODE is entered.
SB-AP-INVOICE-20030	WORKFLOW_FLAG Should be in Y,S,D or NULL.
SB-AP-INVOICE-20031	ACCTS_PAY_CODE_COMBINATION_ID does not exists in GL_CODE_COMBINATIONS.
SB-AP-INVOICE-20032	ORG_ID does not exists in HR_ORGANIZATION_UNITS_V.
SB-AP-INVLIN-20100	INVOICE_ID is a required column. Enter a valid value.
SB-AP-INVLIN-20101	LINE_NUMBER is a required column. Enter a valid value.
SB-AP-INVLIN-20102	LINE_TYPE_LOOKUP_CODE is a required column. Enter a valid value.
SB-AP-INVLIN-20103	AMOUNT is a required column. Enter a valid value.
SB-AP-INVLIN-20111	INVOICE_ID does NOT exist IN TABLE SB_AP_INVOICES_INTERFACE.
SB-AP-INVLIN-20112	Valid values for LINE_TYPE_LOOKUP_CODE column are ITEM,TAX,MISCELLANEOUS,FREIGHT.
SB-AP-INVLIN-20113	LINE_GROUP_NUMBER value must be a positive whole number.
SB-AP-INVLIN-20114	PO_NUMBER does NOT exist IN TABLE PO_HEADERS.
SB-AP-INVLIN-20115	PO_HEADER_ID does NOT exist IN TABLE PO_HEADERS.
SB-AP-INVLIN-20116	PO_LINE_ID does NOT exist IN TABLE PO_LINES.
SB-AP-INVLIN-20117	PO_LINE_NUMBER does NOT exist IN TABLE PO_LINES.
SB-AP-INVLIN-20118	PO_LINE_LOCATION_ID does NOT exist IN TABLE PO_LINE_LOCATIONS.
SB-AP-INVLIN-20119	PO_SHIPMENT_NUM does NOT exist IN TABLE PO_LINE_LOCATIONS.
SB-AP-INVLIN-20120	PO_DISTRIBUTION_NUM does NOT exist IN TABLE PO_DISTRIBUTIONS.
SB-AP-INVLIN-20121	PO_UNIT_OF_MEASURE does NOT exist IN TABLE PO_DISTRIBUTIONS
SB-AP-INVLIN-20122	INVENTORY_ITEM_ID does NOT exist IN TABLE MTL_SYSTEM_ITEMS.
SB-AP-INVLIN-20123	ITEM_DESCRIPTION does NOT exist IN TABLE PO_LINES.
SB-AP-INVLIN-20124	QUANTITY_INVOICED value must be a positive whole number.

Table 19 Accounts Payable Errors

Error Code	Error Message
SB-AP-INVLIN-20125	SHIP_TO_LOCATION_CODE does NOT exist IN TABLE PO_LINE_LOCATIONS.
SB-AP-INVLIN-20126	DISTRIBUTION_SET_ID does NOT exist IN TABLE AP_DISTRIBUTION_SETS.
SB-AP-INVLIN-20127	DISTRIBUTION_SET_NAME does NOT exist IN TABLE AP_DISTRIBUTION_SETS.
SB-AP-INVLIN-20128	DIST_CODE_CONCATENATED does NOT exist IN TABLE GL_CODE_COMBINATIONS.
SB-AP-INVLIN-20129	AWT_GROUP_ID does NOT exist IN TABLE AP_AWT_GROUPS.
SB-AP-INVLIN-20130	AWT_GROUP_NAME does NOT exist IN TABLE AP_AWT_GROUPS.
SB-AP-INVLIN-20131	PO_RELEASE_ID does NOT exist IN TABLE PO_RELEASES.
SB-AP-INVLIN-20132	RELEASE_NUM does NOT exist IN TABLE PO_RELEASES.
SB-AP-INVLIN-20133	RCV_TRANSACTION_ID does NOT exist IN TABLE RCV_TRANSACTIONS.
SB-AP-INVLIN-20134	ORG_ID does NOT exist IN VIEW HR_ORGANIZATION_UNITS_V.
SB-AP-INVLIN-20135	DIST_CODE_COMBINATION_ID does NOT exist IN TABLE GL_CODE_COMBINATIONS.
SB-AP-INVLIN-20136	ACCOUNTING_DATE,the date must be an open accounting period.
SB-AP-INVLIN-20138	Valid VALUES FOR PRORATE_ACROSS_FLAG are Y,N.
SB-AP-INVLIN-20139	INCOME_TAX_REGION does NOT exist IN AP_INCOME_TAX_TYPES TABLE AND should be active.
SB-AP-INVLIN-20140	PO_DISTRIBUTION_ID does NOT exist IN TABLE PO_DISTRIBUTIONS.
SB-AP-INVLIN-20141	'TYPE_1099 does NOT exist IN AP_INCOME_TAX_TYPES TABLE AND should be active.
SB-AP-INVLIN-20142	TAX_CODE does NOT exist IN AP_INCOME_TAX_TYPES TABLE AND should be active.

A.2.2 Accounts Receivable

Auto Invoice

Table 20 Auto Invoice Errors

Error Code	Error Message
SB-AR-DIST-10400	ACCOUNT_CLASS cannot be NULL.
SB-AR-DIST-10401	CODE_COMBINATION_ID does not exists in GL_CODE_COMBINATIONS table.
SB-AR-DIST-10402	ACCOUNT_CLASS should be either REV, FREIGHT, TAX, REC, CHARGES, UNBILL, UNEARN.
SB-AR-LINES-10600	CONVERSION_TYPE is a required column. Enter a valid value.
SB-AR-LINES-10601	BATCH_SOURCE_NAME is a required column. Enter a valid value.

Table 20 Auto Invoice Errors

Error Code	Error Message
SB-AR-LINES-10602	SET_OF_BOOKS_ID is a required column. Enter a valid value.
SB-AR-LINES-10603	LINE_TYPE is a required column. Enter a valid value.
SB-AR-LINES-10604	DESCRIPTION is a required column. Enter a valid value.
SB-AR-LINES-10605	CURRENCY_CODE is a required column. Enter a valid value.
SB-AR-LINES-10606	LAST_UPDATED_BY is a required column. Enter a valid value.
SB-AR-LINES-10607	LAST_UPDATE_DATE is a required column. Enter a valid value.
SB-AR-LINES-10608	CREATED_BY is a required column. Enter a valid value.
SB-AR-LINES-10609	CREATION_DATE is a required column. Enter a valid value.
SB-AR-LINES-10625	CONVERSION_TYPE does not exists in GL_DAILY_CONVERSION_TYPES table.
SB-AR-LINES-10626	SET_OF_BOOKS_ID does not exists in AR_SYSTEM_PARAMETERS table.
SB-AR-LINES-10627	CURRENCY_CODE does not exists in FND_CURRENCIES table.
SB-AR-LINES-10650	Valid values for LINE_TYPE column are LINE,TAX,FREIGHT and CHARGES.
SB-AR-LINES-10651	ACCOUNTING_RULE_ID value should match with RULE_ID value of RA_RULES Table.
SB-AR-LINES-10652	ACCOUNTING_RULE_NAME value should match with NAME value of RA_RULES Table.
SB-AR-LINES-10653	AGREEMENT_NAME value should match with NAME value of SO_AGREEMENTS Table.
SB-AR-LINES-10654	AGREEMENT_ID value should match with ID value of SO_AGREEMENTS Table.
SB-AR-LINES-10655	BATCH_SOURCE_NAME value should match with NAME value of RA_BATCH_SOURCES_ALL Table.
SB-AR-LINES-10656	CONS_BILLING_NUMBER must not already exist in AR_CONS_INV_ALL table.
SB-AR-LINES-10657	CONVERSION_RATE should be not null if CONVERSION_TYPE is USER and CONVERSION_RATE should be null if CONVERSION_TYPE is not USER.
SB-AR-LINES-10658	Valid values for CREDIT_METHOD_FOR_ACCT_RULE column are PRORATE,LIFO,UNIT.
SB-AR-LINES-10659	Valid values for CREDIT_METHOD_FOR_INSTALLMENTS column are PRORATE,LIFO,UNIT.
SB-AR-LINES-10660	CUST_TRX_TYPE_ID value should match with CUST_TRX_TYPE_ID value of RA_BATCH_SOURCES_ALL Table.
SB-AR-LINES-10661	CUST_TRX_TYPE_NAME value should match with NAME value of RA_BATCH_SOURCES_ALL Table.
SB-AR-LINES-10662	FOB_POINT value should match with LOOKUP_CODE value of AR_LOOKUPS Table where LOOKUP_TYPE is FOB.
SB-AR-LINES-10663	INVENTORY_ITEM_ID value should match with INVENTORY_ITEM_ID value of MTL_SYSTEM_ITEMS Table.

Table 20 Auto Invoice Errors

Error Code	Error Message
SB-AR-LINES-10664	MEMO_LINE_ID value should match with MEMO_LINE_ID value of AR_MEMO_LINES_ALL_B Table.
SB-AR-LINES-10665	MEMO_LINE_NAME value should match with NAME value of AR_MEMO_LINES_ALL_B Table.
SB-AR-LINES-10666	Enter the appropriate value in ORIG_SYSTEM_BILL_ADDRESS_ID.
SB-AR-LINES-10667	Enter the appropriate value in ORIG_SYSTEM_BILL_ADDRESS_REF.
SB-AR-LINES-10668	Enter the appropriate value in ORIG_SYSTEM_BILL_CONTACT_ID.
SB-AR-LINES-10669	Enter the appropriate value in ORIG_SYSTEM_BILL_CONTACT_REF.
SB-AR-LINES-10670	ORIG_SYSTEM_BILL_CUSTOMER_ID value should match with CUST_ACCOUNT_ID value of HZ_CUST_ACCOUNTS Table.
SB-AR-LINES-10671	ORIG_SYSTEM_BILL_CUSTOMER_REF value should match with ORIG_SYSTEM_REFERENCE value of HZ_CUST_ACCOUNTS Table.
SB-AR-LINES-10672	Enter the appropriate value in ORIG_SYSTEM_SHIP_ADDRESS_ID.
SB-AR-LINES-10673	Enter the appropriate value in ORIG_SYSTEM_SHIP_ADDRESS_REF.
SB-AR-LINES-10674	Enter the appropriate value in ORIG_SYSTEM_SHIP_CONTACT_ID.
SB-AR-LINES-10675	Enter the appropriate value in ORIG_SYSTEM_SHIP_CONTACT_REF.
SB-AR-LINES-10676	ORIG_SYSTEM_SHIP_CUSTOMER_ID value should match with CUST_ACCOUNT_ID value of HZ_CUST_ACCOUNTS Table.
SB-AR-LINES-10677	ORIG_SYSTEM_SHIP_CUSTOMER_REF value should match with ORIG_SYSTEM_REFERENCE value of HZ_CUST_ACCOUNTS Table.
SB-AR-LINES-10678	ORIG_SYSTEM_SOLD_CUSTOMER_ID value should match with CUST_ACCOUNT_ID value of HZ_CUST_ACCOUNTS Table.
SB-AR-LINES-10679	ORIG_SYSTEM_SOLD_CUSTOMER_REF value should match with ORIG_SYSTEM_REFERENCE value of HZ_CUST_ACCOUNTS Table.
SB-AR-LINES-10680	PRIMARY_SALESREP_ID value should match with SALESREP_ID value of RA_SALESREPS Table.
SB-AR-LINES-10681	PRIMARY_SALESREP_NUMBER value should match with SALESREP_NUMBER value of RA_SALESREPS Table.
SB-AR-LINES-10682	PRINTING_OPTION value should match with LOOKUP_CODE value of AR_LOOKUPS Table.
SB-AR-LINES-10683	REASON_CODE value should match with LOOKUP_CODE value of AR_LOOKUPS Table.
SB-AR-LINES-10684	REASON_CODE_MEANING value should match with MEANING value of AR_LOOKUPS Table.
SB-AR-LINES-10685	RECEIPT_METHOD_ID value should match with RECEIPT_METHOD_ID value of AR_RECEIPT_METHODS Table.
SB-AR-LINES-10686	RECEIPT_METHOD_NAME value should match with NAME value of AR_RECEIPT_METHODS Table.
SB-AR-LINES-10687	Enter the appropriate value in REFERENCE_LINE_CONTEXT.

Table 20 Auto Invoice Errors

Error Code	Error Message
SB-AR-LINES-10688	REFERENCE_LINE_ID value should match with CUSTOMER_TRX_LINE_ID value of RA_CUSTOMER_TRX_LINES Table.
SB-AR-LINES-10689	Enter the appropriate value in RELATED_BATCH_SOURCE_NAME.
SB-AR-LINES-10690	RELATED_CUSTOMER_TRX_ID value should match with CUSTOMER_TRX_ID value of RA_CUSTOMER_TRX_ALL Table.
SB-AR-LINES-10692	Enter the appropriate value in RELATED_TRX_NUMBER.
SB-AR-LINES-10694	TAX_CODE value should match with TAX_CODE value of AR_VAT_TAX Table.‘
SB-AR-LINES-10695	Enter the appropriate value in TAX_EXEMPT_FLAG.
SB-AR-LINES-10696	TAX_EXEMPT_REASON_CODE value should match with LOOKUP_CODE value of AR_LOOKUPS Table.
SB-AR-LINES-10697	TAX_EXEMPT_REASON_CODE_MEANING value should match with MEANING value of AR_LOOKUPS Table.
SB-AR-LINES-10698	TERM_ID value should match with TERM_ID value of RA_TERMS Table.
SB-AR-LINES-10699	TERM_NAME value should match with NAME value of RA_TERMS Table.
SB-AR-LINES-10700	TERRITORY_ID value should match with TERRITORY_ID value of RA_TERRITORIES Table.
SB-AR-LINES-10701	TRX_NUMBER value should not match with TRX_NUMBER value of RA_CUSTOMER_TRX_ALL Table.
SB-AR-LINES-10702	UOM_CODE value should match with UOM_CODE value of MTL_UNITS_OF_MEASURE Table.
SB-AR-LINES-10703	UOM_NAME value should match with UNIT_OF_MEASURE value of MTL_UNITS_OF_MEASURE Table.
SB-AR-LINES-10705	AMOUNT value should be NULL when LINE_TYPE = CHARGES.
SB-AR-LINES-10706	AMOUNT_INCLUDES_TAX_FLAG should be either Y or N.
SB-AR-LINES-10707	GL_DATE must be OPEN or FUTURE ENTRY accounting period in GL_PERIOD_STATUSES.
SB-AR-LINES-10708	INVOICING_RULE_ID value should exist in RULE_ID column of RA_RULES Table.
SB-AR-LINES-10709	CUSTOMER_BANK_ACCOUNT_ID value should exist in BANK_ACCOUNT_ID column of AP_BANK_ACCOUNTS_ALL Table.
SB-AR-LINES-10710	CUSTOMER_BANK_ACCOUNT_NAME value should exist in BANK_ACCOUNT_NAME column of AP_BANK_ACCOUNTS_ALL Table.
SB-AR-SALES-10500	INTERFACE_SALESCREDIT_ID cannot be NULL.
SB-AR-SALES-10530	SALES_CREDIT_AMOUNT_SPLIT AND SALES_CREDIT_PERCENT_SPLIT cannot be Null/Not Null.
SB-AR-SALES-10531	SALES_CREDIT_AMOUNT_SPLIT cannot be Null and Should be between 0 and 100.
SB-AR-SALES-10532	SALES_CREDIT_TYPE_ID cannot be Null and does not exist in SO_SALES_CREDIT_TYPES Table.

Table 20 Auto Invoice Errors

Error Code	Error Message
SB-AR-SALES-10533	SALES_CREDIT_TYPE_NAME cannot be Null and SALES_CREDIT_TYPE_NAME does not exist in SO_SALES_CREDIT_TYPES Table.
SB-AR-SALES-10534	SALESREP_ID cannot be Null and SALESREP_ID does not exist in RA_SALESREPS.
SB-AR-SALES-10535	SALESREP_NUMBER does not exist in RA_SALESREPS.

Auto Lock Box

Table 21 Auto Lock Box Errors

Error Code	Error Message
SB-AR-PAYMENT-10800	RECORD_TYPE is a required column. Enter a valid value.
SB-AR-PAYMENT-10801	ORIGINATION is a required column for record_type as RECEIPT. Enter a valid value.
SB-AR-PAYMENT-10802	BATCH_NAME is a required column for record_type as RECEIPT. Enter a valid value.
SB-AR-PAYMENT-10803	GL_DATE is a required column for record_type as RECEIPT. Enter a valid value.
SB-AR-PAYMENT-10804	REMITTANCE_AMOUNT is a required column for record_type as RECEIPT. Enter a valid value.
SB-AR-PAYMENT-10805	RECEIPT_METHOD_ID is a required column for record_type as RECEIPT. Enter a valid value.
SB-AR-PAYMENT-10815	TRANSMISSION_ID does not exists in AR_TRANSMISSIONS_ALL table.
SB-AR-PAYMENT-10816	RECEIPT_METHOD_ID does not exists in AR_RECEIPT_METHODS table.
SB-AR-PAYMENT-10817	CUSTOMER_SITE_USE_ID does not exists in HZ_CUST_SITE_USES_ALL table.
SB-AR-PAYMENT-10818	CUSTOMER_BANK_ACCOUNT_ID does not exists in AP_BANK_ACCOUNTS_ALL table.
SB-AR-PAYMENT-10819	CUSTOMER_ID does not exists in HZ_CUST_ACCOUNTS table.
SB-AR-PAYMENT-10850	RECORD_TYPE value should match with RECORD_IDENTIFIER value of AR_TRANS_RECORD_FORMATS Table.
SB-AR-PAYMENT-10851	TRANSMISSION_ID value should match with TRANSMISSION_ID value of AR_TRANSMISSIONS_ALL Table.
SB-AR-PAYMENT-10852	CUSTOMER_BANK_ACCOUNT_ID value should match with EXTERNAL_BANK_ACCOUNT_ID value of AP_BANK_ACCOUNT_USES_ALL Table.
SB-AR-PAYMENT-10853	Valid value for the STATUS field is either NULL or AR_PLB_NEW_RECORD.
SB-AR-PAYMENT-10854	ORIGINATION value should match with BANK_ORIGINATION_NUMBER value of AR_LOCKBOXES_ALL Table.
SB-AR-PAYMENT-10855	EXCHANGE_RATE_TYPE value should match with LOOKUP_CODE value of AR_LOOKUPS Table.

Table 21 Auto Lock Box Errors

Error Code	Error Message
SB-AR-PAYMENT-10856	CUSTOMER_BANK_NAME value should match with the BANK_NAME value of AP_BANK_BRANCHES table.
SB-AR-PAYMENT-10857	REMITTANCE_BANK_NAME value should match with the BANK_NAME value of AP_BANK_BRANCHES table.
SB-AR-PAYMENT-10858	CUSTOMER_BANK_BRANCH_NAME value should match with the BANK_BRANCH_NAME value of AP_BANK_BRANCHES table.
SB-AR-PAYMENT-10859	CURRENCY_CODE value should match with the CURRENCY_CODE value of FND_CURRENCIES table.
SB-AR-PAYMENT-10860	TRANSIT_ROUTING_NUMBER value should match with BANK_NUM value of AP_BANK_BRANCHES Table.
SB-AR-PAYMENT-10861	ACCOUNT value should match with BANK_ACCOUNT_NUM value of AP_BANK_ACCOUNTS_ALL Table.
SB-AR-PAYMENT-10862	CUSTOMER_BANK_ACCOUNT_ID value should match with BANK_ACCOUNT_ID value of AP_BANK_ACCOUNTS_ALL.
SB-AR-PAYMENT-10863	LOCKBOX_NUMBER value should match with LOCKBOX_NUMBER value of AR_LOCKBOXES_ALL table.
SB-AR-PAYMENT-10864	BATCH_NAME value should match with NAME value of AR_BATCHES_ALL table.

Customer Interface

Table 22 Customer Interface Errors

Error Code	Error Message
SB-AR-PHONES-10700	CREATED_BY cannot be NULL.
SB-AR-PHONES-10701	CREATION_DATE cannot be NULL.
SB-AR-PHONES-10702	INSERT_UPDATE_FLAG cannot be NULL.
SB-AR-PHONES-10703	LAST_UPDATED_BY cannot be NULL.
SB-AR-PHONES-10704	LAST_UPDATE_DATE cannot be NULL.
SB-AR-PHONES-10705	ORIG_SYSTEM_CONTACT_REF cannot be NULL.
SB-AR-PHONES-10706	ORIG_SYSTEM_TELEPHONE_REF cannot be NULL.
SB-AR-PHONES-10707	ORIG_SYSTEM_CUSTOMER_REF cannot be NULL.
SB-AR-PHONES-10708	CONTACT_JOB_TITLE does not exist in AR_LOOKUPS table.
SB-AR-PHONES-10709	CONTACT_TITLE does not exist in AR_LOOKUPS table.
SB-AR-PHONES-10710	ORIG_SYSTEM_CUSTOMER_REF does not exist in HZ_CUST_ACCOUNTS table.
SB-AR-PHONES-10711	ORIG_SYSTEM_ADDRESS_REF does not exist in HZ_CUST_ACCT_SITES_ALL table.
SB-AR-PHONES-10712	ORIG_SYSTEM_CONTACT_REF does not exist in HZ_ORG_CONTACTS table.

Table 22 Customer Interface Errors

Error Code	Error Message
SB-AR-PHONES-10713	ORIG_SYSTEM_TELEPHONE_REF does not exist in HZ_CONTACT_POINTS table.
SB-AR-PHONES-10714	TELEPHONE_TYPE does not exist in AR_LOOKUPS table.
SB-AR-PHONES-10715	INSERT_UPDATE_FLAG should be either I or U.
SB-AR-PHONES-10716	TELEPHONE cannot be null if ORIG_SYSTEM_TELEPHONE_REF entered.
SB-AR-PHONES-10717	CONTACT_LAST_NAME cannot be null if ORIG_SYSTEM_CONTACT_REF entered.
SB-AR-PHONES-10718	ORIG_SYSTEM_TELEPHONE_REF cannot be null if TELEPHONE entered.
SB-AR-PHONES-10719	TELEPHONE_TYPE cannot be null if ORIG_SYSTEM_TELEPHONE_REF entered.
SB-AR-PAY-10300	ORIG_SYSTEM_CUSTOMER_REF is a required column. Enter a valid value.
SB-AR-PAY-10301	PAYMENT_METHOD_NAME is a required column. Enter a valid value.
SB-AR-PAY-10302	PRIMARY_FLAG is a required column. Enter a valid value.
SB-AR-PAY-10303	START_DATE is a required column. Enter a valid value.
SB-AR-PAY-10304	LAST_UPDATED_BY is a required column. Enter a valid value.
SB-AR-PAY-10305	LAST_UPDATE_DATE is a required column. Enter a valid value.
SB-AR-PAY-10306	CREATION_DATE is a required column. Enter a valid value.
SB-AR-PAY-10307	CREATED_BY is a required column. Enter a valid value.
SB-AR-PAY-10315	Valid values for PRIMARY_FLAG column are Y,N.
SB-AR-PAY-10316	Valid values for VALIDATED_FLAG column are Y,N.
SB-AR-PAY-10317	PAYMENT_METHOD_NAME does not exist in table AR_RECEIPT_METHODS.
SB-AR-PAY-10318	ORIG_SYSTEM_CUSTOMER_REF does not exist in table RA_CUSTOMERS and SB_RA_CUSTOMERS_INTERFACE.
SB-AR-PAY-10319	ORIG_SYSTEM_ADDRESS_REF does not exist in table RA_ADDRESSES and SB_RA_CUSTOMERS_INTERFACE.
SB-AR-PAY-10320	ORG_ID does not exist IN VIEW HR_ORGANIZATION_UNITS_V.
SB-AR-BANKS-10200	ORIG_SYSTEM_CUSTOMER_REF cannot be NULL.
SB-AR-BANKS-10201	BANK_ACCOUNT_NAME cannot be NULL.
SB-AR-BANKS-10202	PRIMARY_FLAG cannot be NULL.
SB-AR-BANKS-10203	START_DATE cannot be NULL.
SB-AR-BANKS-10204	LAST_UPDATE_DATE cannot be NULL.
SB-AR-BANKS-10205	LAST_UPDATED_BY cannot be NULL.
SB-AR-BANKS-10206	CREATION_DATE cannot be NULL.
SB-AR-BANKS-10207	CREATED_BY cannot be NULL.
SB-AR-BANKS-10208	BANK_ACCOUNT_CURRENCY_CODE cannot be NULL.
SB-AR-BANKS-10209	BANK_ACCOUNT_NUM cannot be NULL.

Table 22 Customer Interface Errors

Error Code	Error Message
SB-AR-BANKS-10210	BANK_BRANCH_NAME cannot be NULL.
SB-AR-BANKS-10211	ORIG_SYSTEM_ADDRESS_REF cannot be NULL if the bank details are entered.Also it should be equal to BILL_TO address.
SB-AR-BANKS-10212	BANK_ACCOUNT_CURRENCY_CODE does not exist in FND_CURRENCIES table.
SB-AR-BANKS-10213	BANK_ACCOUNT_NAME does not exist in AP_BANK_ACCOUNTS table.
SB-AR-BANKS-10214	BANK_NUMBER does not exist in AP_BANK_BRANCHES table.
SB-AR-BANKS-10215	BANK_NUM should be unique in AP_BANK_BRANCHES table.
SB-AR-BANKS-10216	BANK_BRANCH_COUNTRY does not exist in FND_TERRITORIES table.
SB-AR-BANKS-10217	END_DATE should be greater than START_DATE.
SB-AR-BANKS-10218	ORIG_SYSTEM_CUSTOMER_REF does not exist in HZ_CUST_ACCOUNTS table.
SB-AR-BANKS-10219	PRIMARY_FLAG should be either Y or N.
SB-AR-BANKS-10220	BANK_NAME,BANK_BRANCH_NAME should be unique in AP_BANK_BRANCHES table.
SB-AR-BANKS-10221	BANK_NAME cannot be NULL.
SB-AR-BANKS-10222	ORIG_SYSTEM_ADDRESS_REF does not exist in HZ_CUST_ACCT_SITES_ALL or SB_RA_CUSTOMERS_INTERFACE table.The address specified must have an active BILL_TO site defined.
SB-AR-CUST-10000	ORIG_SYSTEM_CUSTOMER_REF cannot be NULL.
SB-AR-CUST-10001	SITE_USE_CODE cannot be NULL.
SB-AR-CUST-10002	ORIG_SYSTEM_ADDRESS_REF cannot be NULL.
SB-AR-CUST-10003	INSERT_UPDATE_FLAG cannot be NULL.
SB-AR-CUST-10004	CUSTOMER_NAME cannot be NULL.
SB-AR-CUST-10005	CUSTOMER_NUMBER cannot be NULL.
SB-AR-CUST-10006	CUSTOMER_STATUS cannot be NULL.
SB-AR-CUST-10007	LAST_UPDATED_BY cannot be NULL.
SB-AR-CUST-10008	LAST_UPDATE_DATE cannot be NULL.
SB-AR-CUST-10009	CREATED_BY cannot be NULL.
SB-AR-CUST-10010	CREATION_DATE cannot be NULL.
SB-AR-CUST-10011	LOCATION cannot be NULL.
SB-AR-CUST-10025	SITE_USE_CODE does not exists in AR_LOOKUPS table.
SB-AR-CUST-10026	CUSTOMER_TYPE does not exists in AR_LOOKUPS table.
SB-AR-CUST-10027	ORIG_SYSTEM_PARENT_REF does not exists in RA_CUSTOMERS table.
SB-AR-CUST-10028	CUSTOMER_CATEGORY_CODE does not exists in AR_LOOKUPS table.
SB-AR-CUST-10029	CUSTOMER_CLASS does not exists in AR_LOOKUPS table.

Table 22 Customer Interface Errors

Error Code	Error Message
SB-AR-CUST-10030	DEMAND_CLASS_CODE does not exists in FND_COMMON_LOOKUPS table.
SB-AR-CUST-10031	CUST_SHIP_VIA_CODE does not exists in ORG_FREIGHT table.
SB-AR-CUST-10032	LANGUAGE does not exists in FND_LANGUAGES table.
SB-AR-CUST-10033	CUST_TAX_CODE value should match with TAX_CODE value of AR_VAT_TAX Table.
SB-AR-CUST-10034	SITE_USE_TAX_CODE value should match with TAX_CODE value of AR_VAT_TAX Table.
SB-AR-CUST-10050	ADDRESS cannot be NULL.
SB-AR-CUST-10051	INSERT_UPDATE_FLAG should be either I - Insert or U - Update.
SB-AR-CUST-10052	CUSTOMER_STATUS should be either A - Active or I - Inactive.
SB-AR-CUST-10053	CUSTOMER_TYPE should be either I - Internal or R - External.
SB-AR-CUST-10054	PRIMARY_SITE_USE_FLAG should be either Y - Yes or N - No or NULL.
SB-AR-CUST-10055	BILL_TO_ORIG_ADDRESS_REFP cannot be NULL.
SB-AR-CUST-10056	ORIG_SYSTEM_ADDRESS_REF does not exist in RA_ADDRESSES table.
SB-AR-CUST-10057	ORIG_SYSTEM_CUSTOMER_REF Value should be validated against the RA_CUSTOMERS Table based on Insert_Update_Flag Value.
SB-AR-CUST-10058	CITY,PROVINCE,STATE,COUNTY,POSTAL CODE, and COUNTRY fields should not be null and have valid data when ADDRESS1 is Not Null.
SB-AR-CUST-10059	PRIMARY SITE USE FLAG Should not be null when ADDRESS1 is not null.
SB-AR-PROFILE-10100	INSERT_UPDATE_FLAG is a required column. Enter a valid value.
SB-AR-PROFILE-10101	ORIG_SYSTEM_CUSTOMER_REF is a required column. Enter a valid value.
SB-AR-PROFILE-10102	CREDIT_HOLD is a required column. Enter a valid value.
SB-AR-PROFILE-10103	LAST_UPDATED_BY is a required column. Enter a valid value.
SB-AR-PROFILE-10104	LAST_UPDATE_DATE is a required column. Enter a valid value.
SB-AR-PROFILE-10105	CREATION_DATE is a required column. Enter a valid value.
SB-AR-PROFILE-10106	CREATED_BY is a required column. Enter a valid value.
SB-AR-PROFILE-10108	Valid values for CREDIT_BALANCE_STATEMENTS column are Y,N.
SB-AR-PROFILE-10109	CREDIT_BALANCE_STATEMENTS must be N when STATEMENTS = N.Mandatory when STATEMENTS =Y. Must be null when STATEMENTS is null.
SB-AR-PROFILE-10111	Valid VALUES FOR CREDIT_CHECKING COLUMN are Y,N.
SB-AR-PROFILE-10112	Valid VALUES FOR CREDIT_HOLD COLUMN are Y,N.
SB-AR-PROFILE-10113	Valid VALUES FOR DISCOUNT_TERMS COLUMN are Y,N.
SB-AR-PROFILE-10114	Valid VALUES FOR DUNNING_LETTERS COLUMN are Y,N.
SB-AR-PROFILE-10115	Valid VALUES FOR INTEREST_CHARGES COLUMN are Y,N.
SB-AR-PROFILE-10116	Valid VALUES FOR STATEMENTS COLUMN are Y,N.

Table 22 Customer Interface Errors

Error Code	Error Message
SB-AR-PROFILE-10117	Valid VALUES FOR OVERRIDE_TERMS COLUMN are Y,N.
SB-AR-PROFILE-10118	Valid VALUES FOR CHARGE_ON_FINANCE_CHARGE_FLAG COLUMN are Y,N.Required IF INTEREST_CHARGES IS SET TO Y AND no PROFILE class IS specified.
SB-AR-PROFILE-10120	CHARGE_ON_FINANCE_CHARGE_FLAG not required IF INTEREST_CHARGES IS SET TO N OR NULL.
SB-AR-PROFILE-10121	Valid VALUES FOR AUTO_REC_INCL_DISPUTED_FLAG COLUMN are Y,N.
SB-AR-PROFILE-10122	Valid VALUES FOR CONS_INV_FLAG COLUMN are Y,N.
SB-AR-PROFILE-10123	Valid VALUES FOR CONS_INV_TYPE COLUMN are SUMMARY,DETAIL,WHEN CON_INV_FLAG IS Y.
SB-AR-PROFILE-10124	CURRENCY_CODE required IF ANY one OF the following COLUMNS have VALUES.
SB-AR-PROFILE-10125	CURRENCY_CODE does not exist IN TABLE FND_CURRENCIES.
SB-AR-PROFILE-10126	CUSTOMER_PROFILE_CLASS_NAME does not exist IN TABLE HZ_CUST_PROFILE_CLASSES.
SB-AR-PROFILE-10127	IF COLUMN CUSTOMER_PROFILE_CLASS_NAME IS NULL,THEN enter the following COLUMNS COLLECTOR_NAME, CREDIT_BALANCE_STATEMENTS, CREDIT_CHECKING,' || 'AUTO_REC_INCL_DISPUTED_FLAG, DISCOUNT_TERMS, DUNNING_LETTER, DUNNING_LETTER_SET_NAME, INTEREST_CHARGES, INTEREST_PERIOD_DAYS, CHARGE_ON_FINANCE_CHARGE_FLAG,' || 'STATEMENTS, STATEMENT_CYCLE_NAME, TOLERANCE, TAX_PRINTING_OPTION, OVERRIDE_TERMS, GROUPING_RULE_NAME, STATEMENTS, CHARGE_ON_FINANCE_CHARGE_FLAG, AUTOCASH_HIERARCHY_NAME.
SB-AR-PROFILE-10128	ACCOUNT_STATUS does not exist IN TABLE AR_LOOKUPS.
SB-AR-PROFILE-10129	AUTOCASH_HIERARCHY_NAME does not exist IN TABLE AR_AUTOCASH_HIERARCHIES.
SB-AR-PROFILE-10130	COLLECTOR_NAME does not exist IN TABLE AR_COLLECTORS.
SB-AR-PROFILE-10131	CREDIT_RATING does not exist IN TABLE AR_LOOKUPS.
SB-AR-PROFILE-10132	DISCOUNT_GRACE_DAYS Must be greater than OR equal TO 0 AND, must be NULL WHEN DISCOUNT_TERMS IS NULL OR No.
SB-AR-PROFILE-10133	DUNNING_LETTER_SET_NAME does not exist IN TABLE AR_DUNNING_LETTER_SETS.
SB-AR-PROFILE-10134	DUNNING_LETTER_SET_NAME mandatory WHEN DUNNING_LETTERS IS Yes.Must be NULL WHEN DUNNING_LETTERS IS No OR NULL.
SB-AR-PROFILE-10135	GROUPING_RULE_NAME does not exist IN TABLE RA_GROUPING_RULES.
SB-AR-PROFILE-10136	INTEREST_PERIOD_DAYS must be greater than OR equal TO zero, mandatory when INTEREST_CHARGES value is Y. Must be NULL when INTEREST_CHARGES value is N OR NULL.
SB-AR-PROFILE-10137	ORIG_SYSTEM_CUSTOMER_REF does not exist IN TABLE RA_CUSTOMERS AND SB_RA_CUSTOMERS_INTERFACE.

Table 22 Customer Interface Errors

Error Code	Error Message
SB-AR-PROFILE-10138	ORIG_SYSTEM_ADDRESS_REF does not exist IN TABLE RA_ADDRESSES AND SB_RA_CUSTOMERS_INTERFACE.
SB-AR-PROFILE-10139	TRX_CREDIT_LIMIT AND OVERALL_CREDIT_LIMIT must both be filled IN,OR both be NULL.
SB-AR-PROFILE-10140	RISK_CODE does not exist IN TABLE AR_LOOKUPS.
SB-AR-PROFILE-10141	STANDARD_TERM_NAME does not exist IN TABLE RA_TERMS.
SB-AR-PROFILE-10142	STATEMENT_CYCLE_NAME does not exist IN TABLE AR_STATEMENT_CYCLES.
SB-AR-PROFILE-10143	STATEMENT_CYCLE_NAME must be NULL WHEN STATEMENTS IS No OR NULL. Mandatory WHEN STATEMENTS IS Yes.
SB-AR-PROFILE-10144	TAX_PRINTING_OPTION does not exist IN TABLE AR_LOOKUPS.
SB-AR-PROFILE-10145	CLEARING_DAYS must be greater than OR equal TO zero.
SB-AR-PROFILE-10146	PAYMENT_GRACE_DAYS must be greater than OR equal TO zero.
SB-AR-PROFILE-10147	TOLERANCE must be BETWEEN -100 AND 100.
SB-AR-PROFILE-10148	ORG_ID does not exist IN VIEW HR_ORGANIZATION_UNITS_V.

A.2.3 Cash Management

Table 23 Cash Management Errors

Error Code	Error Message
SB-CE-STHDR-30100	STATEMENT_NUMBER is a required column. Enter a valid value.
SB-CE-STHDR-30101	BANK_ACCOUNT_NUM is a required column. Enter a valid value.
SB-CE-STHDR-30102	STATEMENT_DATE is a required column. Enter a valid value.
SB-CE-STHDR-30103	CURRENCY_CODE is a required column. Enter a valid value.
SB-CE-STHDR-30107	CURRENCY_CODE should be the same as the currency code defined for the bank account in AP_Banks_Accounts_All table.
SB-CE-STHDR-30108	CURRENCY_CODE does not exist IN TABLE FND_CURRENCIES.
SB-CE-STHDR-30109	CONTROL_END_BALANCE should be equal to (CONTROL_BEGIN_BALANCE - CONTROL_TOTAL_DR + CONTROL_TOTAL_CR).
SB-CE-STHDR-30110	Valid values for RECORD_STATUS_FLAG column are E,N.
SB-CE-STHDR-30111	BANK_ACCOUNT_NUM does not exist IN TABLE AP_Banks_Accounts_All.
SB-CE-STHDR-30112	BANK_NAME does not exist IN TABLE AP_Bank_Branches.
SB-CE-STHDR-30113	BANK_BRANCH_NAME does not exist IN TABLE AP_Bank_Branches.
SB-CE-STHDR-30114	CHECK_DIGITS does not match with check_digits of the bank account number entered IN TABLE AP_Banks_Accounts_All.
SB-CE-STHDR-30115	ORG_ID does not exist IN view HR_ORGANIZATION_UNITS_V.
SB-CE-STATE-30200	Bank_Account_Num cannot be NULL.

Table 23 Cash Management Errors

Error Code	Error Message
SB-CE-STATE-30201	Statement_Number cannot be NULL.
SB-CE-STATE-30202	Line_number cannot be NULL.
SB-CE-STATE-30203	TRX_DATE cannot be NULL.
SB-CE-STATE-30204	Amount cannot be NULL.
SB-CE-STATE-30205	TRX_CODE cannot be NULL.
SB-CE-STATE-30210	Bank_Account_Num does not exists in SB_CE_STATEMENT_HEAD_INTERFACE.
SB-CE-STATE-30211	Statement_Number does not exists in SB_CE_STATEMENT_HEAD_INTERFACE.
SB-CE-STATE-30212	Currency_code does not exist in FND_CURRENCIES.
SB-CE-STATE-30220	TRX_code does not exist in CE_TRANSACTION_CODES.
SB-CE-STATE-30221	Exchange_rate does not exist in GL_DAILY_RATES.
SB-CE-STATE-30222	Exchange_rate_date does not exist in GL_DAILY_RATES.
SB-CE-STATE-30223	Exchange_rate_type does not exist in GL_DAILY_RATES.
SB-CE-STATE-30224	Trx_date cannot be greater than sysdate.
SB-CE-STATE-30225	Bank_trx_number does not exist in AP_CHECKS_V.

A.2.4 Fixed Assets

Table 24 Fixed Assets Errors

Error Code	Error Message
SB-FA-CATE-50200	CATEGORY_ID cannot be NULL.
SB-FA-CATE-50201	SUMMARY_FLAG cannot be NULL.
SB-FA-CATE-50202	ENABLED_FLAG cannot be NULL.
SB-FA-CATE-50203	OWNED_LEASED cannot be NULL.
SB-FA-CATE-50204	LAST_UPDATE_DATE cannot be NULL.
SB-FA-CATE-50205	LAST_UPDATED_BY cannot be NULL.
SB-FA-CATE-50206	CATEGORY_TYPE cannot be NULL.
SB-FA-CATE-50207	CAPITALIZE_FLAG cannot be NULL.
SB-FA-CATE-50208	CAPITALIZE_FLAG should be either YES or NO.
SB-FA-CATE-50209	CATEGORY_TYPE should be in LEASE,LEASEHOLD,IMPROVEMENT,NON-LEASE.
SB-FA-CATE-50210	ENABLED_FLAG should be either Y or N.
SB-FA-CATE-50211	OWNED_LEASED should be either OWNED or LEASED.
SB-FA-CATE-50212	PROPERTY_1245_1250_CODE should be either 1245 or 1250.
SB-FA-CATE-50213	PROPERTY_TYPE_CODE should be either PERSONAL or REAL.

Table 24 Fixed Assets Errors

Error Code	Error Message
SB-FA-CATE-50214	SUMMARY_FLAG should be either Y or N.
SB-FA-LOC-50100	LOCATION_ID is a required column. Enter a valid value.
SB-FA-LOC-50101	SUMMARY_FLAG is a required column. Enter a valid value.
SB-FA-LOC-50102	ENABLED_FLAG is a required column. Enter a valid value.
SB-FA-LOC-50104	LAST_UPDATED_BY is a required column. Enter a valid value.
SB-FA-LOC-50105	LAST_UPDATE_DATE is a required column. Enter a valid value.
SB-FA-LOC-50110	Valid values for ENABLED_FLAG column are Y,N.
SB-FA-LOC-50111	Valid values for SUMMARY_FLAG column are Y,N.
SB-FA-MASS-50000	ACCOUNTING_DATE cannot be NULL.
SB-FA-MASS-50001	ASSET_CATEGORY_ID cannot be NULL.
SB-FA-MASS-50002	ASSET_TYPE cannot be NULL.
SB-FA-MASS-50003	BOOK_TYPE_CODE cannot be NULL.
SB-FA-MASS-50004	CREATED_BY cannot be NULL.
SB-FA-MASS-50005	CREATED_DATE cannot be NULL.
SB-FA-MASS-50006	DATE_PLACED_IN_SERVICE cannot be NULL.
SB-FA-MASS-50007	DEPRECIATE_FLAG cannot be NULL.
SB-FA-MASS-50008	DESCRIPTION cannot be NULL.
SB-FA-MASS-50009	EXPENSE_CODE_COMBINATION_ID cannot be NULL.
SB-FA-MASS-50010	FIXED_ASSETS_COST cannot be NULL.
SB-FA-MASS-50011	FIXED_ASSETS_UNITS cannot be NULL.
SB-FA-MASS-50012	INVENTORIAL cannot be NULL.
SB-FA-MASS-50013	LAST_UPDATE_DATE cannot be NULL.
SB-FA-MASS-50014	LAST_UPDATE_LOGIN cannot be NULL.
SB-FA-MASS-50015	LAST_UPDATED_BY cannot be NULL.
SB-FA-MASS-50016	LOCATIOD_ID cannot be NULL.
SB-FA-MASS-50017	MASS_ADDITION_ID cannot be NULL.
SB-FA-MASS-50018	PAYABLES_CODE_COMBINATION_ID cannot be NULL.
SB-FA-MASS-50019	PAYABLES_COST cannot be NULL.
SB-FA-MASS-50020	PAYABLES_UNITS cannot be NULL.
SB-FA-MASS-50021	POSTING_STATUS cannot be NULL.
SB-FA-MASS-50022	QUEUE_NAME cannot be NULL.
SB-FA-MASS-50023	AP_DISTRIBUTION_LINE_NUMBER does not exists in AP_INVOICE_DISTRIBUTIONS_ALL table.
SB-FA-MASS-50024	ASSIGNED_TO does not exists in FA_EMPLOYEES table.
SB-FA-MASS-50025	INVOICE_ID does not exists in AP_INVOICES_ALL table.
SB-FA-MASS-50026	ADD_TO_ASSET_ID does not exists in FA_ADDITIONS_B table.

Table 24 Fixed Assets Errors

Error Code	Error Message
SB-FA-MASS-50027	ASSET_NUMBER does not exists in FA_ADDITIONS_B.
SB-FA-MASS-50028	PARENT_ASSET_ID does not exists in FA_ADDITIONS_B.
SB-FA-MASS-50029	ASSET_KEY_CCID does not exists in FA_ASSET_KEYWORDS.
SB-FA-MASS-50030	BOOK_TYPE_CODE does not exists in FA_BOOK_CONTROLS.
SB-FA-MASS-50031	ASSET_CATEGORY_ID does not exists in FA_CATEGORIES_B.
SB-FA-MASS-50032	LOCATION_ID does not exists in FA_LOCATIONS.
SB-FA-MASS-50033	PARENT_MASS_ADDITION_ID does not exists in FA_MASS_ADDITIONS.
SB-FA-MASS-50034	PAYABLES_CODE_COMBINATION_ID does not exists in GL_CODE_COMBINATIONS.
SB-FA-MASS-50035	EXPENSE_CODE_COMBINATION_ID does not exists in GL_CODE_COMBINATIONS.
SB-FA-MASS-50036	PROJECT_ID does not exists in PA_PROJECTS_ALL.
SB-FA-MASS-50037	PROJECT_ASSET_LINE_ID does not exists in PA_PROJECT_ASSET_LINES_ALL.
SB-FA-MASS-50038	TASK_ID does not exists in PA_TASKS.
SB-FA-MASS-50039	PO_VENDOR_ID does not exists in PO_VENDORS.
SB-FA-MASS-50040	ASSET_TYPE should be either CAPITALIZED, CIP, EXPENSED.
SB-FA-MASS-50041	DEPRECIATE_FLAG should be either YES or NO.
SB-FA-MASS-50042	PAYABLES_UNITS should have same value as that of FIXED_ASSETS_UNITS column.
SB-FA-MASS-50043	POSTING_STATUS should be either NEW, ON HOLD, POST.
SB-FA-MASS-50044	QUEUE_NAME should have same value as that of POSTING_STATUS.
SB-FA-MASS-50045	INVENTORIAL should be either YES or NO.
SB-FA-MASS-50046	NEW_MASTER_FLAG should be either YES or NO.
SB-FA-MASS-50047	SHORT_FISCAL_YEAR_FLAG should be either YES or NO.
SB-FA-MASS-50048	CONVERSION_DATE should not be NULL, when SHORT_FISCAL_YEAR_FLAG is YES.

A.2.5 General Ledger

Table 25 General Ledger Errors

Error Code	Error Message
SB-GL-BUDGT-40000	BUDGET_NAME cannot be NULL.
SB-GL-BUDGT-40001	BUDGET_ENTITY_NAME cannot be NULL.
SB-GL-BUDGT-40002	CURRENCY_CODE cannot be NULL.
SB-GL-BUDGT-40003	FISCAL_YEAR cannot be NULL.
SB-GL-BUDGT-40004	UPDATE_LOGIC_TYPE cannot be NULL.

Table 25 General Ledger Errors

Error Code	Error Message
SB-GL-BUDGT-40005	CURRENCY_CODE does not exists in FND_CURRENCIES table.
SB-GL-BUDGT-40006	BUDGET_ENTITY_ID does not exists in GL_BUDGET_ENTITIES table.
SB-GL-BUDGT-40007	BUDGET_VERSION_ID does not exists in GL_BUDGET_VERSIONS table.
SB-GL-BUDGT-40008	CODE_COMBINATION_ID does not exists in GL_CODE_COMBINATIONS table.
SB-GL-BUDGT-40009	PERIOD_TYPE does not exists in GL_PERIOD_TYPES table.
SB-GL-BUDGT-40010	SET_OF_BOOKS_ID does not exists in GL_SETS_OF_BOOKS table.
SB-GL-BUDGT-40011	ACCOUNT_TYPE should be either A-Asset, L-Liability, E-Expense, O-Owners Equity, R-Revenue.
SB-GL-BUDGT-40012	DR_FLAG should be either Y-Yes, N-No.
SB-GL-BUDGT-40013	UPDATE_LOGIC_TYPE should be either A-Add, R-Replace.
SB-GL-BUDGT-40014	BUDGET_ENTITY_NAME does not exists in GL_BUDGET_ENTITIES table.
SB-GL-BUDGT-40015	FISCAL_YEAR does not exists in GL_ENTITY_BUDGETS table.
SB-GL-DLRT-40100	FROM_CURRENCY is a required column. Enter a valid value.
SB-GL-DLRT-40101	TO_CURRENCY is a required column. Enter a valid value.
SB-GL-DLRT-40102	FROM_CONVERSION_DATE is a required column. Enter a valid value.
SB-GL-DLRT-40103	TO_CONVERSION_DATE is a required column. Enter a valid value.
SB-GL-DLRT-40104	USER_CONVERSION_TYPE is a required column. Enter a valid value.
SB-GL-DLRT-40105	CONVERSION_RATE is a required column. Enter a valid value.
SB-GL-DLRT-40106	MODE_FLAG is a required column. Enter a valid value.
SB-GL-DLRT-40120	FROM_CURRENCY does not exist IN TABLE FND_CURRENCIES.
SB-GL-DLRT-40121	TO_CURRENCY does not exist IN TABLE FND_CURRENCIES.
SB-GL-DLRT-40122	USER_ID does not exist IN TABLE FND_USER.
SB-GL-DLRT-40123	USER_CONVERSION_TYPE does not exist IN TABLE GL_DAILY_CONVERSION_TYPES.
SB-GL-DLRT-40130	Valid values for LAUNCH_RATE_CHANGE column are Y,N.
SB-GL-DLRT-40131	Valid values for MODE_FLAG column are D,I,X.
SB-GL-INTERFACE-40200	STATUS cannot be NULL.
SB-GL-INTERFACE-40201	SET_OF_BOOKS_ID cannot be NULL.
SB-GL-INTERFACE-40202	USER_JE_SOURCE_NAME cannot be NULL.
SB-GL-INTERFACE-40203	USER_JE_CATEGORY_NAME cannot be NULL.
SB-GL-INTERFACE-40204	ACCOUNTING_DATE cannot be NULL.
SB-GL-INTERFACE-40205	CURRENCY_CODE cannot be NULL.
SB-GL-INTERFACE-40206	DATE_CREATED cannot be NULL.
SB-GL-INTERFACE-40207	CREATED_BY cannot be NULL.
SB-GL-INTERFACE-40208	ACTUAL_FLAG cannot be NULL.

Table 25 General Ledger Errors

Error Code	Error Message
SB-GL-INTERFACE-40209	SET_OF_BOOKS_ID does not exists in GL_SETS_OF_BOOKS Table.
SB-GL-INTERFACE-40210	CURRENCY_CODE does not exists in FND_CURRENCIES Table.
SB-GL-INTERFACE-40211	FUNCTIONAL_CURRENCY_CODE does not exists in FND_CURRENCIES table.
SB-GL-INTERFACE-40212	BUDGET_VERSION_ID does not exists in GL_BUDGET_VERSIONS table.
SB-GL-INTERFACE-40213	JE_BATCH_ID does not exists in GL_JE_BATCHES table.
SB-GL-INTERFACE-40214	ENCUMBRANCE_TYPE_ID does not exists in GL_ENCUMBRANCE_TYPES table.
SB-GL-INTERFACE-40215	JE_HEADER_ID does not exists in GL_JE_HEADRS table.
SB-GL-INTERFACE-40216	JE_LINE_NUM does not exists in GL_JE_LINES table.
SB-GL-INTERFACE-40217	CODE_COMBINATION_ID does not exists in GL_CODE_COMBINATIONS table.
SB-GL-INTERFACE-40218	ORIGINATING_BAL_SEG_VALUE does not exists in FND_FLEX_VALUES table.
SB-GL-INTERFACE-40219	USER_CURRENCY_CONVERSION_TYPE does not exists in GL_DAILY_CONVERSION_TYPES table.
SB-GL-INTERFACE-40220	USER_JE_CATEGORY_NAME does not exists in GL_JE_CATEGORIES table.
SB-GL-INTERFACE-40221	USER_JE_SOURCE_NAME does not exists in GL_JE_SOURCES table.
SB-GL-INTERFACE-40222	PERIOD_NAME does not exists in GL_PERIODS table.
SB-GL-INTERFACE-40223	USSGL_TRANSACTION_CODE does not exists in GL_USSGL_TRANSACTION_CODES table.
SB-GL-INTERFACE-40224	ACTUAL_FLAG should be either A-Actual, B-Budget, E-Encumbrance.
SB-GL-INTERFACE-40225	AVERAGE_JOURNAL_FLAG should be either Y-Yes, N-No.
SB-GL-INTERFACE-40226	CURRENCY_CONVERSION_RATE should be entered for USER_CURRENCY_CONVERSION_TYPE = User.
SB-GL-INTERFACE-40227	CURRENCY_CONVERSION_DATE should be entered for USER_CURRENCY_CONVERSION_TYPE!= User.

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