

**Oracle® Hyperion Financial Data Quality Management ERP  
Integration Adapter for Oracle Applications**

**Administrator's Guide**

RELEASE 11.1.2.1

ERP Integrator Administrator's Guide, 11.1.2.1

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# 1

## Using ERP Integrator

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Oracle Hyperion Financial Data Quality Management ERP Integration Adapter for Oracle Applications is a module of Oracle Hyperion Financial Data Quality Management, Fusion Edition that enables you to perform the following tasks:

- Integrate metadata and data from an Enterprise Resource Planning (ERP) source system into an Enterprise Performance Management (EPM) target application
- Drill through from the EPM target application and view data in the ERP source system
- Write-back budget data to the source system from any Oracle Hyperion Planning, Fusion Edition, Oracle Essbase ASO, or Essbase BSO application.

For information on supported EPM System versions, see the *Oracle Hyperion Enterprise Performance Management System Certification Matrix*.

For ERP Integrator issues and workarounds, see the *Oracle Hyperion Financial Data Quality Management Readme*.

## Supported Source Systems

ERP Integrator supports general ledger data for:

- Oracle E-Business Suite 11i

- Oracle E-Business Suite 12
- Oracle Fusion Financials
- PeopleSoft Enterprise Financial Management 9.0
- PeopleSoft Enterprise Financial Management 9.1
- SAP ERP Financial

ERP Integrator supports human resource data for:

- PeopleSoft Human Capital Management 9.0

Integration includes data load and drill through. The integration is supported for the following SAP ERP Financial modules:

- General Ledger
- Profit Center
- Cost Center

In addition ERP Integrator provides support for Open Interface Adapter. The Open Interface Adapter allows you to import data from any source system using the interface table.

For information on supported technologies for each source system, see the *Oracle Hyperion Enterprise Performance Management System Certification Matrix*.

## Supported EPM Target Applications

ERP Integrator supports the following EPM target applications (Oracle Hyperion EPM Architect, Fusion Edition and Classic):

- Planning
- Planning enabled for Oracle Hyperion Public Sector Planning and Budgeting, Fusion Edition
- Oracle Hyperion Financial Management, Fusion Edition
- Essbase ASO and Essbase BSO
- FDM

One FDM application can load to multiple target applications of multiple systems. For example, one FDM application can load to two Oracle's Hyperion® Enterprise® applications, a Financial Management application, and three Planning applications. For additional information, see the *Oracle Hyperion Financial Data Quality Management Administrator's Guide*.

# Upgrading ERP Integrator

For detailed information on upgrading EPM System products, including ERP Integrator, see the *Oracle Hyperion Enterprise Performance Management System Installation and Configuration Guide*.

You can upgrade ERP Integrator to the latest release; however, metadata and data loads are only successful after you upgrade target applications to the same release as ERP Integrator. When you upgrade ERP Integrator from 11.1.1.3 to 11.1.2.1:

- One import format is created per metadata rule.
- One location is created per ledger, source system, and target application combination.
- Metadata and data rules are automatically created and assigned to a location.

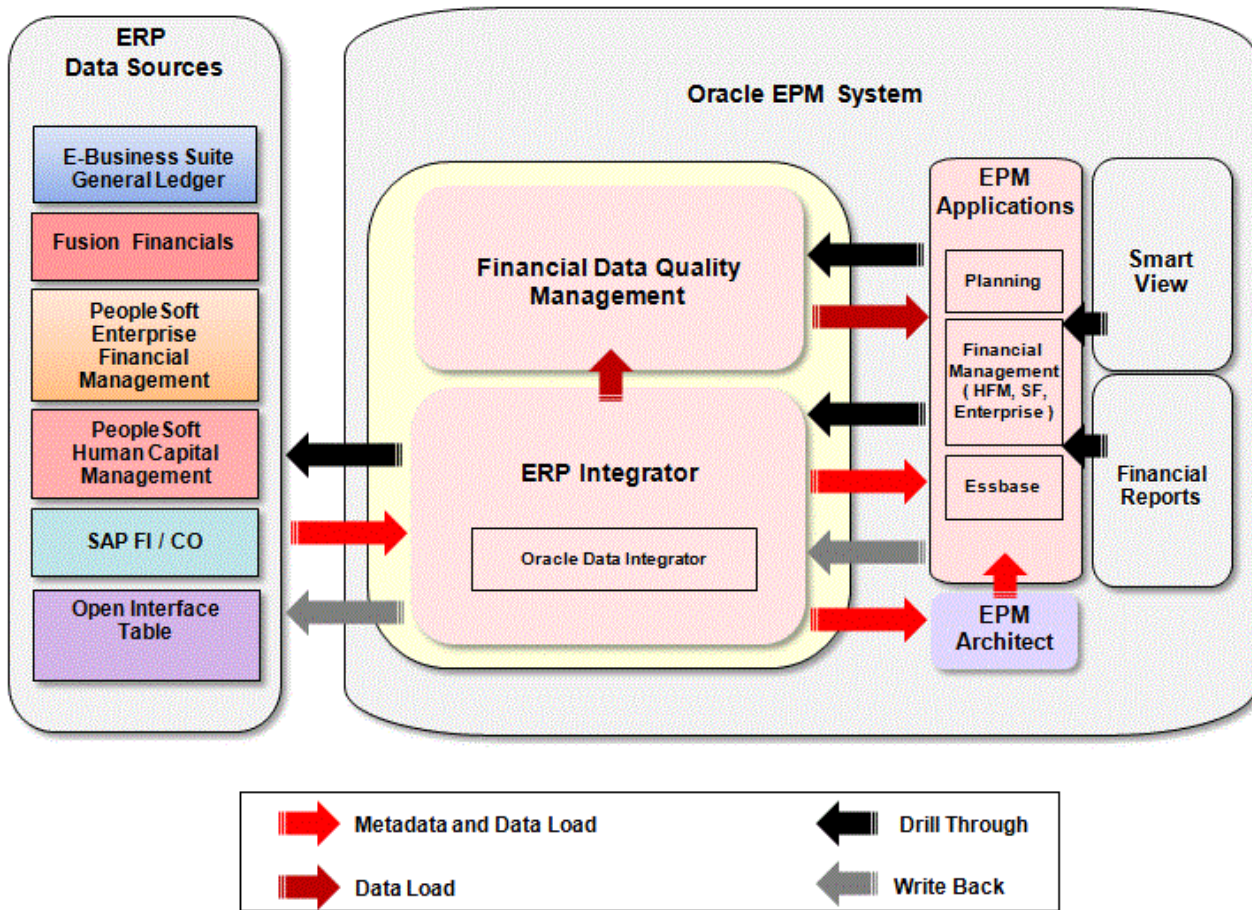
**Note:** The Performance Management Architect Shared Library is not a supported target in Release 11.1.2.1; therefore, after upgrading, all Shared Library dimensions are automatically associated with the target application.

## Post-Upgrade Steps

- For target applications with a data load method other than FDM, you must define period mappings before running any upgraded data loads. For information on creating period mappings, see [“Defining Period Mappings” on page 78](#).
- Ensure that the Performance Management Architect data source listed on the ERP Integrator Source System page matches the Performance Management Architect data source in the Oracle's Hyperion Enterprise Performance Management System Configurator.

## Architecture

The following diagram displays the ERP Integrator architecture.



As a module of FDM, ERP Integrator is the key application for integrating ERP systems with Oracle's Hyperion EPM applications. ERP Integrator fits within the Oracle Hyperion Enterprise Performance Management System architecture and is accessed through Oracle Enterprise Performance Management Workspace, Fusion Edition, which uses Oracle's Hyperion® Shared Services to authenticate users. The key to its integration lies within its underlying engine, which is Oracle Data Integrator.

ERP Integrator sits on top of Oracle Data Integrator and orchestrates the movement of metadata and data into Hyperion EPM applications. The application server can be deployed on multiple platforms (See the *Oracle Hyperion Enterprise Performance Management System Certification Matrix*) and connects with Hyperion EPM applications such as Financial Management, Planning, and Essbase using Performance Management Architect, Classic Administration, or FDM.

# Drilling Through

## Subtopics

- [Drilling Through to the ERP Integrator Landing Page](#)
- [Drilling Through to the FDM Landing Page](#)

ERP Integrator provides the framework to drill through from the EPM applications back to the general ledger source. Drill through is not supported for human resource data. Users can drill through to detail in the source system through FDM or ERP Integrator *from* the following products:

- Planning
- Financial Management
- Oracle Hyperion Smart View for Office, Fusion Edition
- Oracle Hyperion Financial Reporting, Fusion Edition
- Hyperion Enterprise (Release 6.5.1 or later)

**Note:** In Smart View and Financial Reporting, users can drill through only if the data source is Financial Management, Planning, or Essbase.

When you drill through, if data was loaded by FDM or ERP Integrator, a landing page is displayed in a new EPM Workspace tab or a new window. The landing page is a gateway to the data in the source system. See [“Drilling Through to the ERP Integrator Landing Page” on page 15](#) and [“Drilling Through to the FDM Landing Page” on page 16](#).

## Drilling Through to the ERP Integrator Landing Page

The ERP Integrator landing page displays general ledger accounts and the hyperlinked balances that were used to populate the cells in the EPM application. When you click a hyperlinked data value, you can drill through to the source system and view the associated journal entries for the selected general ledger account.

You can drill through to balances to display data loaded from your source system. When you navigate to the Oracle General Ledger Balances page after login validation, you can view a table listing all the general ledger accounts that contributed to the drilled value shown in the Hyperion EPM application for the specific period.

This table includes a breakdown of all general ledger accounts values with hyperlinks, enabling users to further drill into the Journal Lines page in Oracle General Ledger. Users can then view the associated journal entries for the selected Oracle General Ledger account.

When you navigate to PeopleSoft Enterprise Financial Management, the Ledger Inquiry page is displayed after login validation. Users can then view information on the Journal Inquiry page. See product documentation for additional information on drill through capabilities.

## Drilling Through to the FDM Landing Page

For information on drill through capabilities to the FDM landing page, see the FDM documentation.

## Configuration Prerequisites for ERP Integrator

### Subtopics

- [Installing Oracle Data Integrator](#)
- [Importing the ODI Project and Scenario](#)
- [Creating Logical Schemas](#)
- [Creating Data Servers and Physical Schemas](#)
- [Creating Contexts](#)
- [Creating a Physical Agent](#)
- [Setting up Performance Management Architect](#)

The Oracle Hyperion Enterprise Performance Management System Installer, Fusion Edition installs ERP Integrator. However, ERP Integrator relies on Oracle Data Integrator 11.1.1.5 as the engine that extracts data and metadata from the defined sources and then either populates the Performance Management Architect interface tables or populates the Classic applications with the extracted artifacts. Oracle Data Integrator must be installed and configured before ERP Integrator can be used. The following sections describe the configuration steps required after Oracle Data Integrator is installed in your environment.

**Note:** You should be familiar with Oracle Data Integrator and review the Oracle Data Integrator documentation set before performing these configuration tasks.

**Note:** To integrate with Classic Financial Management, the Financial Management client and Oracle Data Integrator Agent must be installed on the same server.

Follow this process to configure Oracle Data Integrator for use with ERP Integrator:

1. Install Oracle Data Integrator and the master and work repositories.

For more information about installing the Oracle Data Integrator, see the *Oracle® Fusion Middleware Installation Guide for Oracle Data Integrator* available on the Oracle Technical Network (OTN).

2. With Oracle Data Integrator Topology Manager, perform the following:
  - a. Create logical schemas.
  - b. Create the data servers corresponding to the servers used in Oracle Data Integrator.
  - c. Create the contexts suitable for your configuration, and associate the physical and logical schemas also associated with the global context.



- d. Create the physical agents for each agent running on a machine (as a listener, or in scheduler mode). Then, create logical agents and associate them with physical agents in the contexts.
3. Start the Oracle Data Integrator Agent Service.

---

**Caution!** Extensive problems can occur if you switch the ERP system connection information for the Physical Schema in the Oracle Data Integrator Topology Manager after you have completed initial configuration. For example, extensive problems can occur if you start using one physical schema (ERPTEST) pointing to ERP Test Instance1 in the Oracle Data Integrator Topology Manager and then change to a connection information in this physical schema to point to ERP Test Instance2 without first creating a new context in Oracle Data Integrator. The correct procedure is to create two physical schemas (ERPTEST1 and ERPTEST2) each pointing to a different ERP instance. Then, create two contexts and associate the appropriate physical schema to the logical schema in the context.

---

## Installing Oracle Data Integrator

➤ To install Oracle Data Integrator:

- 1 **Download the ODI 11g (11.1.1.5) and Repository Creation Utility (RCU) for 11.1.1.5.**

- 2 **Run the RCU and create the master and work repositories.**

The Work Repository must be of type “Development”. Use a repository between 001 and 009.

- 3 **Install the ODI 11g software.**

You need to install ODI Studio and ODI Agent. ODI Studio is primarily used to define the topology, import a scenario, and perform any customization work. It can be installed on any Administrator Workstation or on the server.

ODI Agent must be installed on a server. Preferably the ODI Agent must be installed on the same server as ERP Integrator. This makes the file sharing and access to log files easier.

However, it is not required to install ERP Integrator and ODI Agent on the same server.

ODI 11g provides two versions of ODI Agent: a standalone version and a J2EE version. J2EE version runs in a Managed Server in WebLogic so it can be clustered and load balanced using WebLogic. Both versions are supported with ERP Integrator.

- 4 **ERP Integrator leverages ODI to read and write files for import and export functionality. A common shared directory must be created that is accessible by the ODI Agent and ERP Integrator Web Application.**

- 5 **The common directory created in step 4 must be specified as the Application Root Directory in the ERP Integrator System Settings screen.**

- 6 **Navigate to Topology Manager, then select Logical Architecture, and then select Generic SQL.**

- 7 **Double click Generic SQL to Edit.**

- 8 **On the Advanced tab, remove the Table Alias if any has been specified.**

By the default this field has a value of AS.

## Importing the ODI Project and Scenario

► To import the ODI project and scenario:

1 **Make sure that ODI Studio has access to the all the files located in the ODI directory.**

All ODI related files are located at `Oracle\Middleware\EPMSysystem11R1\products\FinancialDataQuality\odi`

2 **From the ODI Studio:**

- Import the new ODI Scenario from the `scenarios\11G` directory.
- From the **Adapter directory**, import the **ERPI Target Model**.
- From the **Adapters\Template directory**, import the **Model and Project for Template Adapter**.
- From **Adapters\File directory**, import the **Model and Project for File Adapter**.
- From the **odi\Adapters\OpenInterface directory**, import the **Model and Project for Open Interface Adapter**.

**Note:** When importing the first time, you will get a warning that the work repository does not exist and a new one will be created. Click *OK* to continue.

3 **Start the ODI Agent.**

4 **Set up the required topology.**

## Creating Logical Schemas

After the master and work repositories are defined, enter logical schema names for each related technology type. You must enter the schema names exactly as defined below for a successful ERP Integrator configuration.

► To create ERP Integrator logical schemas:

1 **Launch Oracle Data Integrator Topology Studio.**

2 **Click on the Topology Manager tab.**

3 **Under the Topology tab, click Logical Architecture.**

4 **Expand Technologies.**

5 **For each of the following technologies, right-click and select Insert Logical Schema.**

Enter the schema names exactly as shown in the table below. (All are required, even if a source or target is not being used.)

**Note:** Oracle Data Integrator is packaged with several technologies. After you enter the logical schemas, select the option to hide unused technologies so that the list shown is shorter. The technology types listed below are specific to Oracle Data Integrator. For information on source systems that ERP Integrator supports, see the Oracle Hyperion Enterprise Performance Management System Certification Matrix.

**Table 1** Logical Schema

Technology Type	Logical Schema Name	Schema Description	Optional or Required
Generic SQL	AIF_TGT	ERP Integrator	Required
Oracle	AIF_TG_ORACLE	ERP Integrator	Required if using Open Interface or SAP Adapter
File	AIF_FILE		Required
Oracle	EBS_APPS	Oracle E-Business Suite	Required if integrating with EBS / Peoplesoft / Fusion. Provide a dummy physical connection information if integrating with Peoplesoft or Fusion.
Oracle	FUSION_APPS	Oracle Fusion Financials	Required if integrating with EBS or Peoplesoft or Fusion. Provide a dummy physical connection information if integrating with EBS or Peoplesoft.
Generic SQL.	PSFT_APPS	PeopleSoft Enterprise	Required if integrating with EBS or Peoplesoft or Fusion. Provide a dummy physical connection information if integrating with EBS or Fusion. integrating with PeopleSoft or Fusion.
Generic SQL.	PSFT_HCM	PeopleSoft Human Capital Management	Required if integrating with PeopleSoft HCM.
Oracle Hyperion Planning	HPL_TGT	Planning	Required if integrating with Hyperion Planning
Oracle Hyperion Financial Management	HFM_TGT	Financial Management	Required if integrating with Hyperion Financial Management
SAP  (Also see the installation guide provided by Bristlecone),	SAP_SOURCE	SAP	Required if integrating with SAP

Associate a physical schema with AIF\_TGT and AIF\_FILE in the GLOBAL context in addition to other contexts required for integration.

Clear the Table Alias Separator for the Generic SQL Technology in the Logical Architecture.

**Note:** For Essbase applications, ERP Integrator uses Essbase rules files to load metadata and data so the Oracle Data Integrator logical schema is not required.

## 6 Next, use Topology Manager to create the data servers and physical schemas.

See [“Creating Data Servers and Physical Schemas”](#) on page 20.

## Creating Data Servers and Physical Schemas

Local schemas must be associated with a physical schema for a specific context, and the next step is to create these physical schema definitions. A physical schema is defined as part of a data server definition. You must create the following data servers and physical schemas:

- Financial Management—[“Creating Data Servers and Physical Schemas for Financial Management”](#) on page 20.
- Planning—[“Creating Data Servers and Physical Schemas for Planning”](#) on page 21.
- ERP Integrator—[“Creating Data Servers and Physical Schemas for ERP Integrator”](#) on page 21.
- Source Systems—[“Creating Data Servers and Physical Schemas for Source Systems”](#) on page 21

After you have created the above data servers and physical schemas, you can create contexts. See [“Creating Contexts”](#) on page 22.

## Creating Data Servers and Physical Schemas for Financial Management

► To create a data server and physical schema:

- 1 **Launch Oracle Data Integrator Studio.**
- 2 Under the **Topology** tab click **Physical Architecture**.
- 3 Expand **Hyperion Financial Management**.
- 4 Right-click and select **Insert Data Server**.
- 5 Enter the Financial Management server name and all necessary connection information. Then click **Save**. Enter the server name for **Financial Management** and the user credentials.

The user can be an administrator or another user with privileges to load data to all Financial Management target applications.

**Note:** You cannot test the connection for Financial Management applications.

- 6 Click **Save**.
- 7 Ensure that you have created all data servers and physical schemas listed in [“Creating Data Servers and Physical Schemas”](#) on page 20. Then, create contexts. See [“Creating Contexts”](#) on page 22.

## Creating Data Servers and Physical Schemas for Planning

➤ To create a data server and physical schema:

- 1 Launch **Oracle Data Integrator Topology Manager**.
- 2 Under the **Topology** tab, click **Physical Architecture**.
- 3 Expand **Hyperion Planning**.
- 4 Right-click and select **Insert Data Server**.
- 5 Enter the Planning server name and all necessary connection information. Enter the Planning RMI Server name and port in `<server> :<port>` format.

Typically RMI runs on port 11333.

The user can be added as an administrator or another user with privileges that can load data into all Planning target applications.

- 6 Click **Save**.
- 7 Ensure that you have created all data servers and physical schemas listed in [“Creating Data Servers and Physical Schemas” on page 20](#). Then, create contexts. See [“Creating Contexts” on page 22](#).

## Creating Data Servers and Physical Schemas for ERP Integrator

➤ To create a data server for each of the related logical schemas:

- 1 Launch **Oracle Data Integrator Studio**.
- 2 Under the **Topology** tab, click **Physical Architecture**.
- 3 Expand **ERP Integrator**.
- 4 Navigate to the Oracle technology item used for ERP Integrator.
- 5 Right-click and select **Insert Data Server**.
- 6 Enter the all connection information. Then click **Apply** or **OK**.
- 7 Change the value for schema and work schema to the schema name for the ERP Integrator.
- 8 Click **Save**.
- 9 Next, create contexts. See [“Creating Contexts” on page 22](#).
- 10 Ensure that you have created all data servers and physical schemas listed in [“Creating Data Servers and Physical Schemas” on page 20](#). Then, create contexts. See [“Creating Contexts” on page 22](#).

## Creating Data Servers and Physical Schemas for Source Systems

➤ To create a data server for each of the related logical schemas:

- 1 Launch Oracle Data Integrator Studio, then select the **Physical Architecture** tab.
- 2 Under the **Topology** tab, **Physical Architecture**.

- 3 Expand the appropriate technology.  
See [“Creating Logical Schemas” on page 18](#).
- 4 Right-click and select **Insert Data Server**.
- 5 Enter a name and connection information on the Definition tab, then the JDBC driver and URL. Then, click **Save**.
- 6 Right click on the data server and new physical schema.
- 7 Select the value for the schema and work schema from the drop down list.  
Do not type in the value as the schema is case sensitive in some environments.
- 8 Click **Save**.
- 9 Ensure that you have created all data servers and physical schemas listed in [“Creating Data Servers and Physical Schemas” on page 20](#). Then, create contexts. See [“Creating Contexts” on page 22](#).

## Creating Contexts

Contexts bring together components of the physical architecture (the real architecture) of the information system with components of the Oracle Data Integrator logical architecture (the architecture on which the user works). The next step in ERP Integrator requires that you create contexts.

► To create one or more contexts:

- 1 In Topology Manager, select **Context**.
- 2 Right-click and choose **Insert Context**.
- 3 Enter the context name and code. Leave the password blank.

**Note:** This context is referenced when setting up each source system in ERP Integrator.

At this point in the configuration, all components except for the physical agent have been created in Oracle Data Integrator. The next step is to relate the physical schemas to the logical schemas for each context.

- 4 Click the **Schema** tab and associate the physical schema for each logical schema.
- 5 Associate a physical schema for AIF\_TGT and AIF\_File in the global context.

## Creating a Physical Agent

The Oracle Data Integrator agent is a Java application that can be placed as a listener on a TCP/IP port to handle the communication between the ERP Integrator and the Oracle Data Integrator components. The next step in the configuration is to use Topology Manager to create an agent.

► To create a physical agent:

- 1 Under the **Topology** tab, select the **Physical Architecture** tab.
- 2 Right-click **Agents**, then select a new agent.
- 3 Enter the server name, host, and port.

Save this information, since this is required when you set up the source system in ERP Integrator.

- 4 Click **Save**.
- 5 Refer to the **Oracle Data Integrator installation documentation for configuring and running the agent as a Windows service or background process in UNIX**.

## Setting up Performance Management Architect

If integrating with Performance Management Architect, you must use the EPM System Configurator to create a new interface data source for Performance Management Architect and register the ERP Integrator schema. Note the name of the data source, since it is required when registering a source system for use with ERP Integrator.

## Security

ERP Integrator supports these roles:

ERP Integrator Roles	Tasks per Role
Administrator	Manages applications and performs any action in ERP Integrator. When you login with the Administrator role, all links are visible in the Tasks pane.
Create Integration	<p>Creates ERP Integrator metadata and data rules. If you have the Create Integration role, you can:</p> <ul style="list-style-type: none"><li>● Create, delete and edit metadata rules and data rules</li><li>● View process details</li><li>● Perform period mappings</li></ul> <p><b>Note:</b> You <i>cannot</i> run rules or view, create, edit, or delete source system registrations, target system registrations or source accounting entities.</p> <p>When you login with the Create Integration role, these links are visible in the Tasks pane: Data Load, Member Mapping, HR Data Load, Metadata, and Process Detail.</p>
Drill Through	<p>Controls the ability to drill through to the source system.</p> <p>In FDM, this role is listed under ERP Integrator roles and is applied as a permissible task to an Intermediate role to control drilling back to the source system.</p> <p>In ERP Integrator, this role controls whether the user can drill to the ERP Integrator landing page, which controls drilling to the source system.</p>

ERP Integrator Roles	Tasks per Role
Run Integration	<p>Runs existing ERP Integrator metadata and data rules. If you have the Run Integration role, you can:</p> <ul style="list-style-type: none"> <li>● Run metadata rules or data rules</li> <li>● View process details</li> </ul> <p><b>Note:</b> You <i>cannot</i> view, create, edit, or delete source system registrations, target system registrations or source accounting entities.</p> <p>ERP Integrator users who need to extract data from Oracle or PeopleSoft Enterprise Financial Management must be granted this role to enable them to run data rules.</p> <p>When you login with the Run Integration role, these links are visible in the Tasks pane: Data Load Workbench, Data Load, Member Mapping, HR Data Load, Metadata, and Process Detail.</p>
GL Write Back	<p>Enables data write-back to the ERP source system.</p> <p>When you login with the GL Write Back role, only the Write-Back Workbench, Write-Back Rule and Write-Back Mapping links are visible in the Tasks pane.</p>

**Note:** ERP Integrator users are allowed to define mappings for only target applications in which they have access.

**Note:** ERP Integrator roles provisioning only applies to Classic Financial Management and Classic Planning applications and not Performance Management Architect applications, since Performance Management Architect is an administration-only product.

## Integration Process Overview

There are three ways that you can use ERP Integrator to integrate metadata and data from your ERP source system:

- [“Extracting General Ledger Data” on page 24](#)
- [“Writing Back Data from EPM Target Applications” on page 25](#)
- [“Extracting Human Resource Data” on page 25](#)

## Extracting General Ledger Data

Follow this process to extract general ledger metadata and data and push into target EPM applications:

**Note:** This procedure is option. It is required only if you connect to Enterprise or Hyperion Strategic Finance.

1. Register Source systems in ERP Integrator by adding details of Oracle Data Integrator, ERP Integrator, and specific to the source system.



2. Enable FDM applications for use with ERP Integrator.
3. Register target applications for use with ERP Integrator.
4. Select the Source Accounting Entities.
5. Define import formats and locations.
6. Create metadata rules.
7. Create period mappings for Year and Period dimensions.
8. Create category mappings for the Scenario dimension.
9. Create the member mappings and data load rules.
10. Run the metadata rules to import metadata into Performance Management Architect or Classic Financial Management or Planning applications.

If you use Performance Management Architect, you also deploy or redeploy the applications.

11. Run data rules to extract data from the source system and push into target applications. Data and/or metadata is staged in the ERP Integrator staging tables, extracted from the source system, and loaded into the target application.

The data loaded is used for multiple purposes by the respective target applications (Planning, Financial Management, or Essbase). In addition, the sourced data can also be used for drill through from web forms in the applications or Smart View and Financial Reporting.

## Writing Back Data from EPM Target Applications

Follow this process to write-back data from EPM target applications to your general ledger source system:

1. Perform steps 1-5 and step 7–8 in [“Extracting General Ledger Data” on page 24](#).
2. Define write-back mappings for required segments or chartfields.
3. Create data write-back rules.
4. Run data write-back rules to push the data from supported target applications (Planning, Essbase ASO, and Essbase BSO) into your general ledger source system.

**Note:** You cannot write-back data to SAP General Ledger and PeopleSoft Human Capital Management source systems.

5. Load the data into E-Business Suite or PeopleSoft Enterprise Financial Management by running a process in Oracle General Ledger or PeopleSoft General Ledger.

## Extracting Human Resource Data

Follow this process to extract metadata and data from human resource source systems into Public Sector Planning and Budgeting target applications:

1. Register source systems in ERP Integrator by adding details of Oracle Data Integrator, ERP Integrator, and specific to the PeopleSoft Human Capital Management source system.
2. Register your target Public Sector Planning and Budgeting application.
3. Select the Source Accounting Entities (Business Units).
4. Define import formats and locations.
5. Create the human resource data load rules.
6. Run human resource data rules to extract data and/or metadata from the source system and push into target applications.

Data and/or metadata is staged in the ERP Integrator staging tables, extracted from the PeopleSoft Human Capital Management source system, and loaded into the target application.

## Navigating ERP Integrator

### Subtopics

- [Toolbars](#)
- [Help Menu](#)
- [ERP Integrator User Interface Elements](#)
- [Advanced Search Options](#)

From EPM Workspace, you can access ERP Integrator from the Navigate menu. (**Navigate, Administer, ERP Integrator**)

## Toolbars

The Standard toolbar is used for common EPM Workspace features and is available in ERP Integrator. For additional information, see the *Oracle Enterprise Performance Management Workspace User's Guide*.

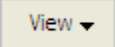
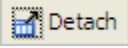
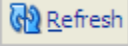


## Help Menu

You use the Help menu to access ERP Integrator online help, Oracle technical support, the EPM documentation located on the Oracle Technology Network, Oracle website, and information about ERP Integrator.

## ERP Integrator User Interface Elements

The following elements are common on ERP Integrator pages.

**Table 2** Elements Common on ERP Integrator Pages

Button	Description
	<p>Customize your view. Options include:</p> <ul style="list-style-type: none"> <li>● <b>Columns</b>—You can choose “Show All” to display all columns or choose individual columns to display.</li> <li>● <b>Detach</b>—Use to detach the column grid. When you detach the grid, the columns display in their own window. To return to the default view, select <b>View</b>, and then click <b>Attach</b> or click the Close button.</li> <li>● <b>Reorder Columns</b>—Use to change the order of the columns that display. You can select a column and then use the buttons on the right to change the column order.</li> </ul>
	<p>Use to detach the column grid. When you detach the grid, the columns display in their own window. To return to the default view, select <b>View</b>, and then click <b>Attach</b> or click the Close button.</p>
	<p>Refreshes the data. For example if you submit a rule, you can refresh to see if the status changes from Running to Complete.</p> <p><b>Note:</b> The Refresh button does not display on the ERP Integrator setup screens.</p>
	<p>Use to toggle the filter row. You can use the filter row to enter text to filter the rows that display for a specific column.</p> <p>You can enter text to filter on, if available, for a specific column, and then press [Enter]. For example, on the Process Details page, to view only processes that failed, you can enter “FAILED” in the Status text box.</p> <p>The Query by Example button displays on the following ERP Integrator setup screens: Target Application, Source Accounting Entities, Import Format, Location, Data Load Workbench, Write-Back Workbench, Process Details.</p> <p>To clear a filter, remove the text to filter by in the text box, then press [Enter].</p> <p>All text you enter is case sensitive.</p>
	<p>Use to select an artifact on a page, such as a target application, member, or general ledger responsibility. When you click the Search button, the Search and Select dialog box is displayed. In some cases you have advanced search options that enable you to enter additional search conditions. See <a href="#">“Advanced Search Options” on page 27</a>.</p>

## Advanced Search Options

The Search button is common to many ERP Integrator pages. When you select the Search button, if the Advanced Search button is available, you can enter additional search conditions. The fields that display in the advanced search options differ depending on what artifact you are selecting. The following operators are supported: Not equal to, Is blank, Does not contain, Ends with, Starts with, Contains, Is not blank, and Equal to.



# 2

## Preparing the General Ledger Integration

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## Understanding General Ledger Integration

ERP Integrator supports loading data into EPM applications from general ledger source systems and also writing back budget data from target EPM Planning applications to general ledger source systems.

- Loading data from the General Ledger Source System - ERP Integrator supports loading data from general ledger source systems. ERP Integrator can load both metadata (dimension members and hierarchies from Oracle E-business Suite, Oracle Fusion Financials and PeopleSoft Enterprise Financial Management only) and data from the ERP source systems.
- Writing back budget data to the General Ledger Source System - ERP Integrator enables you to extract budgets from Planning, Essbase ASO, and Essbase BSO, and load them into the source general ledger system. This helps you maintain one single system of record. Budget Write-back is not available for SAP and Fusion Financials.

## Requirements

Before you begin using ERP Integrator, keep in mind the following requirements:

- Verify that you have met the EPM *dimension* requirements:
  - EPM applications can be built with any combination of dimensions. The combination must include required dimensions for the selected application. “[Member Properties Sourced from the ERP System](#)” on page 31 describes how member properties are sourced from the ERP source system.

- Verify that you have met the EPM *member* requirements:
  - Duplicate Members—To avoid issues with duplicate member names, as a best practice, include a unique prefix or suffix for each dimension so each member is always unique.
  - Duplicate Alias members—If your application has duplicate Alias members, it is important to remove any duplicates in the target application or validation errors will occur when you deploy the application in Performance Management Architect.

**Note:** Source descriptions must be unique to avoid alias validation errors with Performance Management Architect.

When moving dimensions and members from a source system into a target EPM application, it is important to understand the naming restrictions. For Performance Management Architect, see the *Oracle Hyperion Enterprise Performance Management Architect Administrator's Guide*. For Planning, see the *Oracle Hyperion Planning Administrator's Guide*. For Financial Management, see the *Oracle Hyperion Financial Management Administrator's Guide*.

## Required Dimensions

Hyperion EPM applications can be built with any combination of dimensions, as long as the combination includes those required for the selected application. For example, Planning requires different dimensions to be present in an application than Financial Management.

For detailed information on dimensions required and properties for Performance Management Architect applications, see the *Oracle Hyperion Enterprise Performance Management Architect Administrator's Guide*. For Classic Planning applications, see the *Oracle Hyperion Planning Administrator's Guide*. For Classic Financial Management applications, see the *Oracle Hyperion Financial Management Administrator's Guide*. For Classic Essbase, see the *Oracle Essbase Database Administrator's Guide*.

The following Hyperion dimensions require some special considerations when integrating with ERP Integrator:

- Account
- Currency
- Entity
- Scenario
- Version
- View
- Year
- Period

In addition to the above list, you should review properties set by ERP Integrator in the Custom dimension. See [“Custom” on page 34](#).

For information on special considerations and requirements for Public Sector Planning and Budgeting, see [Chapter 3, “Preparing the Human Resource Integration.”](#)

## Member Properties Sourced from the ERP System

### Subtopics

- [Account](#)
- [Entity and Intercompany](#)
- [Scenario](#)
- [Version](#)
- [View](#)
- [Year and Period](#)
- [Alias](#)
- [Custom](#)

For each required dimension, specific properties must be defined. The required dimension properties relate to Planning, Financial Management, or Essbase applications, and in some cases both.

**Note:** ERP Integrator sets some of the required properties, but not all.

### Account

The Account dimension represents a hierarchy of natural accounts. Accounts store financial data for entities and scenarios in an application. Each account has a type, such as Revenue or Expense, that defines its accounting behavior. The Account dimension is mapped from the source accounting entity to the EPM Account dimension as defined in the dimension mapping definition for the selected chart of accounts or business unit. The properties set by ERP Integrator are shown in the following table. (Any properties not set are defaulted by either the application or Performance Management Architect).

Property	Application Type	Population Method / Value
Consolidation Account Type	Consolidation	Populated from the account type in the source accounting entity with the domain of revenue, expense, asset, or liability. If source type is equity, it is changed to liability for use by Financial Management applications.
Account Type	Planning	Populated from the account type in the source accounting entity with the domain of revenue, expense, asset, liability or equity.
Variance Reporting	Planning, Essbase ASO, and Essbase BSO	Set to “Expense” if account type is expense, otherwise set to “NonExpense.” (NonExpense is the default.).
Description, Display String	System	Populate from source accounting entity description.

Property	Application Type	Population Method / Value
Time Balance	Planning, Essbase ASO, Essbase BSO	<p>For income statement accounts, (revenue and expenses) set to “Flow” for Planning applications.</p> <p>For Essbase ASO and BSO applications, set to “Last.”</p> <p>For balance sheet accounts (asset, liability, and equity), set to “Balance.”</p> <p>These properties can be set when you create metadata rules. See <a href="#">“Defining Metadata Rules” on page 73.</a></p>

## Entity and Intercompany

The Entity dimension represents the organizational structure of the company, such as the management and legal reporting structures. Entities can represent divisions, subsidiaries, plants, regions, countries, legal entities, business units, departments, or any organizational unit. You can define any number of entities.

The Intercompany dimension represents all intercompany balances that exist for an account. This is a reserved dimension that is used in combination with the Account dimension and any custom Financial Management dimension.

Financial Management requires that members of the Entity dimension have the IsICP property set for those members that are intercompany members. When an application is populated, Performance Management Architect populates the ICP (intercompany) dimension with the appropriate members based on the Entity members that are flagged as ICP (intercompany) entities.

For E-Business Suite, there are two scenarios for mapping source segments to the Entity dimension: 1) an intercompany segment exists in the source chart of accounts, and 2) an intercompany segment does not exist in the source chart of accounts. For PeopleSoft, the business unit is mapped to the entity and the affiliate is mapped to the ICP.

The properties set by ERP Integrator are shown in the following table. (Any properties not set are defaulted by either the application or Performance Management Architect.

Property	Application Type	Population Method / Value
Name	Consolidation, System	Populated from the code/value in the source accounting entity.
Description	System	Populated from the name in the source accounting entity.
IsICP	Consolidation	<p>If the intercompany segment exists in the source, then this flag is set automatically per the rules defined.</p> <p>If the intercompany segment does not exist, then you specify how this property is set. See <a href="#">“Entity and Intercompany” on page 32.</a></p> <p><b>Note:</b> For ICP transaction data to load correctly, you must manually set the property ISICP =“Y” for those accounts participating in ICP. In Performance Management Architect, you can use the Property Grid to modify the property. If using Financial Management Classic application administration, extract the metadata, update, and then re-import it back. After modifying the property, you can load data correctly for ICP transactions.</p>



Property	Application Type	Population Method / Value
Currency	Consolidation, Essbase, Planning	For Financial Management target applications: The entity currency is set based on the default defined in the mapping rule for the Entity dimension. (All members are assigned the same currency.) As the administrator, it is important to make sure that the functional currency of the source is consistent with the default Entity currency.

**Note:** These are the only properties that are set as part of the ERP Integrator integration, all others are defaulted when creating new members. If a property was originally set by ERP Integrator, and you later change the property in Performance Management Architect or Classic Planning or Classic Financial Management, the property will be overridden.

## Scenario

The Scenario dimension represents a set of data, such as Budget, Actual, or Forecast. For example, the Actual scenario can contain data from a general ledger, reflecting past and current business operations. The Budget scenario can contain data that reflects the targeted business operations. The Forecast scenario typically contains data that corresponds to predictions for upcoming periods. A Legal scenario can contain data calculated according to legal GAAP format and rules.

## Version

The Version dimension is specific to EPM applications (both Performance Management Architect and Classic applications) and usually does not have a source in the source accounting entity. Since it is required, you must specify the necessary default value in the member mapping by using the “Like” mapping type. When defining the data rule in ERP Integrator, you will select the desired “Version” to be included with the extracted data. Since the Version dimension is not extracted from the source system, it is not necessary to define specific properties.

## View

The View dimension represents various modes of calendar intelligence; for example, Periodic, Year-to-Date, and Quarter-to-Date frequencies. ERP Integrator only extracts data that is below the quarter level. You select the view as part of the data rule definition, and when the data is extracted, it includes the View selection as the value for the dimension on each row. See [“Defining Data Load Rules to Extract Data” on page 95](#). Since the View dimension is usually not extracted from the source system, it is not necessary to define specific properties. However, before the data extraction process, you must create all members in the View dimension manually in Performance Management Architect or the Classic application administration interface.

## Year and Period

The mapping between the source system calendar and the Year and Period dimensions is managed using the period mapping feature described in [“Defining Period Mappings” on page](#)

78. Before you perform period mapping, create the necessary Year and Period members in Performance Management Architect or in the Classic application administration interface. In ERP Integrator, you select the calendar periods to include in the data extraction process and on the Period Mapping page to define the appropriate target year and target period dimensions to assign to the data. Since the Year and Period dimensions are not extracted from the source system, it is not necessary to define specific properties.

**Note:** For Planning applications, it is required that you must have the same number of children in each branch of the Period dimension. For example, Q4 has October, November, December children and an adjustment period in Performance Management Architect.

## Alias

For Planning and Essbase, the Alias dimension or table is required to support languages. Keep in mind these special considerations:

- The Alias dimension must include a member named "Default."
- If the dimension name is not the same as the Alias name in a Performance Management Architect Planning application, the drill through landing page does not return any data.
- When creating Alias table members in a dimension, you should define them with the same name that is displayed in Oracle Fusion, E-Business Suite, or PeopleSoft. This is the value of the NLS\_LANGUAGE column.

## Custom

The properties set by ERP Integrator are shown in the following table. (Any properties not set are defaulted by either the application or Performance Management Architect.)

Property	Application Type	Population Method / Value
Name	System	In E-Business Suite, this value is populated from Segment Name. In PeopleSoft Enterprise Financial Management, this value is populated from Chartfield Value.
Description	System	In E-Business Suite, this value is populated from Segment Value. In PeopleSoft Enterprise Financial Management, this value is populated from Chartfield Value.

## How Dimensions are Processed

For Performance Management Architect applications, the dimension extract process populates the interface tables with dimension members based on the mapping rule details created in ERP Integrator. For Classic Planning and Financial Management applications, the dimension extract process populates dimension members directly into the application based on the mapping rule details created in ERP Integrator.

As part of the extract process, the dimension members are directly loaded into the target Performance Management Architect dimension, with specific properties defined as described in [“Member Properties Sourced from the ERP System”](#) on page 31. In addition to loading dimension members, the related alias entries are also loaded to provide the appropriate language support.

The ERP Integrator dimension extract process:

1. Extracts the general ledger segment or chartfield value sets from the source system.
  - Only general ledger segment value set members or chartfield members that are relevant to the source chart of account segments or chartfields mapped to Performance Management Architect, Classic Financial Management, or Planning are extracted.
  - The members are loaded into a staging table on the target instance. Before loading them into the staging table, ERP Integrator assigns the segment values a prefix defined for the corresponding EPM application dimension.
2. Processes Performance Management Architect, Classic Financial Management, or Planning dimensions mapped to single segments or chartfields.

For Classic applications, dimensions are loaded directly into the target application. For Performance Management Architect applications, the interface tables for dimensions map to a single general ledger segment or chartfield. This consists of filtering the data from the staging table loaded in step 1, on the basis of the segment value set mapped to a particular dimension, and loading the corresponding dimension member interface table and dimension member property array table (for aliases).

In most cases, dimensions are mapped as a single segment in Fusion and E-Business Suite source systems or single chartfield in PeopleSoft source systems from the source chart of accounts to a target dimension and you select the starting node in the source dimension as the basis for the new dimension.

3. Processes the Performance Management Architect, Classic Financial Management, or Planning dimensions mapped to multiple segments or chartfields.

For Performance Management Architect, the member interface tables are populated for the dimensions mapped from more than one E-Business Suite general ledger chart of accounts segment or PeopleSoft chartfield. This requires the individual segment values to be concatenated to create the dimension member values.

The dimension extract process creates the required member entries, properties, and alias entries if they exist in the source system, and then applies defaults to those properties if they do not exist. Users should update member properties if the source system value was not available or in cases where a different value is desired.

In some cases, you can create target dimension members based on the concatenation of one or more source segments. When dimensions are mapped as a concatenated segment, the new dimension is created based on a user-defined traversal order of the source hierarchies into the concatenated member target hierarchy.

## How Languages are Processed

As part of the source system registration, ERP Integrator gets the list of available source system languages, in addition to the base language. The base language is typically the language selected when the ERP source system is installed. Additional available languages that are not the base language are referred to as the “enabled languages.”

Languages from the source system that are mapped to the languages defined in the target application are independent of the languages available for selection via the ERP Integrator browser selection. It is possible that the languages available in the browser differ from the languages available in the ERP source system and the target EPM application. For information on languages that ERP Integrator supports, see the *Oracle Hyperion Enterprise Performance Management System Certification Matrix*.

When you register a target application for use with ERP Integrator, the Default Language column on the Target Application Registration page is used as follows:

- The languages displayed in the Default Language drop-down list are ERP Integrator supported languages. These languages are mapped behind the scenes to the ERP source system languages.
- The Alias dimension in Essbase and Planning applications has a required “Default” member. The ERP Integrator language you select when registering a target application is automatically mapped to the “Default” member. Since the ERP Integrator language is mapped to the source system language, you map either the base or enabled source language in the source system to the “Default” alias member. During processing, all other languages are mapped to the other alias members as long as the alias member matches the ERP Integrator language member exactly.

**Note:** Language processing is the same for Essbase and Planning applications created in Performance Management Architect and Classic Planning applications.

**Note:** Financial Management languages are processed based on the Default Language you select on the Target Application Registration page.

For information on registering target applications, see [“Registering Target Applications”](#) on page 57.

## How Currencies are Processed

When you define a data rule, you can specify how to extract exchange rates from the ERP source system. If your target application has the multi-currency option enabled, you can specify how to process exchange rates.

All rates are extracted and inserted into the AIF\_HS\_EXCHANGE\_RATES table. This table is populated using the ISO currency code for each currency from the source system. The ISO numeric code is not used in this processing.

For a Planning applications, exchange rates are only extracted if the Classic data load method is chosen. If the EPMA data load method is chosen for a Planning application, exchange rates cannot be extracted through ERP Integrator. Exchange rates are pushed into Planning based on a match between the ISO currency code in the AIF\_HS\_EXCHANGE\_RATES table and the currencies defined in the multi-currency Planning application. (It is important to set up the currencies in the Planning application with ISO currency codes.) Then, perform any currency conversions with those rates, as nothing is recalculated as part of this process.

**Note:** The amounts from the source system are the functional amounts only. Entered or translated amounts are not included in the integration.

**Note:** Exchange rates are not interfaced directly into Financial Management. You should manually access them from the AIF\_HS\_EXCHANGE\_RATES table and insert them into Financial Management.

## Loading Source System Hierarchies into EPM Dimensions

Metadata within the source system changes over time, as well as the metadata and hierarchies in the target system.

The management of hierarchies is an ongoing process, with frequent changes due to updates in business functions and organizations. When managing hierarchies between source and target systems, users generally create new hierarchies, replace old hierarchies with new hierarchies or update hierarchies.

Managing hierarchies between systems becomes difficult because of the size of the hierarchies, the latency between system updates, and the needs of operational systems versus analytical systems. When managing hierarchies as part of the general ledger integration process, keep in mind the following assumptions:

- The only operations between hierarchy management in the source system and target application is to create or update the hierarchies by merging in the target. ERP Integrator never deletes hierarchies or members in a target application. If additional members or hierarchies are not specified, they are ignored by ERP Integrator.
- When you integrate a hierarchy from the source system to the target system, select the node from the source that serves as the root node in the target.
- The integration pushes the hierarchy into the target system, and reports any errors encountered during the process.

You can use the Process Details page to view errors logged in ERP Integrator. You can also select the Log link to review the Oracle Data Integrator log file. For Performance Management Architect applications, you can also view profile creation errors in the Job Console. See [“Viewing Process Details” on page 84](#) or the appropriate product documentation for additional information.

- A hierarchy selection in the dimension mapping is optional. However, you must at least determine how to handle members not in a hierarchy. For example, create children of a selected node, as orphans, (for Performance Management Architect only) or to not bring orphans over.

# 3

## Preparing the Human Resource Integration

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## Understanding Human Resource Data Integration

ERP Integrator supports loading human resource data from your PeopleSoft Human Capital Management source system into Public Sector Planning and Budgeting applications.

You will load human resource data by creating mappings in ERP Integrator to map the data from your PeopleSoft Human Capital Management source system to Public Sector Planning and Budgeting accounts.

ERP Integrator supports loading human resource data into Public Sector Planning and Budgeting applications. At this time, no other application types are supported.

If you have made revisions to properties in your Public Sector Planning and Budgeting application, loading human resource data from your source system into the application automatically overrides any modified application properties.

ERP Integrator supports loading data into the following Public Sector Planning and Budgeting models:

- Employee
- Position
- Employee and Position (both)

For a high-level process overview of the human resource integration, see [“Extracting Human Resource Data”](#) on page 25.

## Requirements

Before you begin your human resource integration, you must complete the following prerequisites:

- Run specific processes in PeopleSoft Human Capital Management. See “[Running Processes in PeopleSoft Human Capital Management](#)” on page 40.
- Specify parameters in Planning to enable data to be loaded into Essbase. See “[Defining the Data Load Settings in Planning](#)” on page 40.

## Running Processes in PeopleSoft Human Capital Management

If you want to load future-dated salary data from PeopleSoft Human Capital Management, perform these steps in PeopleSoft Human Capital Management.

Refer to the PeopleSoft Human Capital Management user documentation for detailed information.

1. Run the Copy Job Data process (BPJBCOPY) to put a copy of data in PS\_JOB, PS\_COMPENSATION and PS\_JOB\_EARNS\_DIST in PS\_BP\_JOB, PS\_BP\_COMPENSATION and PS\_BP\_JOB\_ERN\_DIST. Copies of these tables are used instead of human resource tables to ensure that the step increment additions to the data only occur in Public Sector Planning and Budgeting tables and do not affect current human resource data when you run the step increment process.
2. Run the optional Load Step Increment (BPCMP107) process for budgets to generate future-dated job data in PS\_BP\_JOB and PS\_BP\_JOB\_ERN\_DIST.

## Defining the Data Load Settings in Planning

In Planning, you must define the data load settings before you can use ERP Integrator to extract metadata and data from PeopleSoft Human Capital Management.

Data load settings enable you to choose the primary keys based of driver dimension members selected. You can specify other members that are not included in the selected driver dimension members. The data values of these members selected from the driver dimension as primary key are used to uniquely identify a row while finding the next available member from children of the selected member on the left hand side. The following figure shows the Data Load Settings window in Planning.

Data Load Settings	
Data Load Dimension	Budget Item
Driver Dimension	Account
Descendants(Human Capital Planning Accounts),Descendants(Segment	
Advanced Settings	
Data Load Dimension Parent	Driver Dimension Unique Identifiers
<input type="checkbox"/> Element Changes	Grade Step,Option Start Date
<input type="checkbox"/> FTE and Status Assignments	FTE Start Date,Assignment Start Date
<input type="checkbox"/> Allocation Assignments	Percentage Allocation,Allocation Start Date



See *Oracle Hyperion Planning Administrator's Guide* for detailed information.

## Public Sector Planning and Budgeting Dimensions

The following Public Sector Planning and Budgeting dimensions are populated by ERP Integrator:

- Position
- Employee
- Element
- Job Code
- Entity

These dimensions are associated with the following tables:

Dimension	Database Table
Position	AIF_PS_POSITION_DATA_STG
Employee	AIF_PS_JOB_STG
Job Code	AIF_PS_JOBCODE_TBL_STG
Element	AIF_PS_SAL_PLAN_TBL_STG AIF_PS_SAL_GRADE_TBL_STG AIF_PS_SAL_STEP_TBL_STG AIF_PS_EARNINGS_TBL_STG AIF_PS_BENEF_PLAN_TBL_STG
Entity	AIF_PS_DEPT_TBL_STG

For a complete list of Public Sector Planning and Budgeting tables, see [Appendix C, “ERP Integrator Staging Tables.”](#)

## Smart Lists

Human Resource data such as salary information, union codes, and status are Smart Lists in Public Sector Planning and Budgeting applications. ERP Integrator automatically recognizes Smart Lists and populates the data accordingly.

ERP Integrator allows you to assign a prefix to Smart Lists in the Compensation Allocation point of view (POV). For general ledger integrations, you create metadata mappings and can optionally define member prefixes. For human resource integrations, you can optionally assign a Smart List prefix in the rule line mapping definition. You should ensure that member prefixes (used in a general ledger metadata mapping) are identical to Smart List prefixes (used in a human resource data rule mapping). For information on human resource rule mappings, see [“Creating](#)

[Mapping Definitions](#)” on page 144. For information on general ledger metadata mappings, see [“Defining Metadata Rules”](#) on page 73.

For information about using Smart Lists in Planning and Public Sector Planning and Budgeting, see the *Oracle Hyperion Planning Administrator’s Guide* and the *Oracle Hyperion Public Sector Planning and Budgeting User’s Guide*.

## Using Loaded Data in Public Sector Planning and Budgeting

After loading human resource data, perform these tasks:

- For Classic Planning applications, in Planning, refresh the application database as required. See the *Oracle Hyperion Planning Administrator’s Guide*.
- For Planning applications administered in Performance Management Architect, navigate to the Application Library and redeploy the application. See the *Oracle Hyperion Enterprise Performance Management Architect Administrator’s Guide*.
- To view the data and use it as part of Public Sector Planning and Budgeting, see the *Oracle Hyperion Planning Administrator’s Guide* and the *Oracle Hyperion Public Sector Planning and Budgeting User’s Guide*.

# 4

## ERP Integrator Administration Tasks

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## Setting up Source Systems

### Subtopics

- [Registering ERP Source Systems](#)
- [Deleting Registered Source Systems](#)
- [Editing Registered Source System Details](#)

In some cases, you may have multiple general ledger or human resource source systems. You can use ERP Integrator to extract data and metadata from any instance.

For information on the source systems that ERP Integrator supports, see the *Oracle Hyperion Enterprise Performance Management System Certification Matrix*.

Before you begin using ERP Integrator, you must register your source systems. Follow this process:

1. Register a source system. See [“Registering ERP Source Systems”](#) on page 44.
2. Edit source system settings as necessary. See [“Editing Registered Source System Details”](#) on page 45.

For information on removing a registered source system, see [“Deleting Registered Source Systems”](#) on page 45.

**Note:** For information on viewing ERP Integrator processes or jobs, see [“Viewing Process Details”](#) on page 84.

## Registering ERP Source Systems

The source system page displays all registered source systems in a table in the Summary pane. By default, the following columns are displayed:

- Name—Name of the source system.
- Type—Type of source system.
- Description—The description that you entered when you registered the source system.
- Drill URL—The drill URL you entered when you registered the source system.

► To add a source system:

**1 In the Tasks pane, select **Source System**.**

The Source System page is displayed.

**2 Click **Add**.**

**3 Enter the source system details:**

- Enter the source system name.
- Enter an optional description.
- Select the source system type.
- Optional:** If using Performance Management Architect applications, enter the Performance Management Architect (EPMA) Data Source Name. (The data source name that you specified in the Oracle's Hyperion Enterprise Performance Management System Configurator when you created a Performance Management Architect interface data source.)
- Enter the Drill URL. The URL used to launch Fusion, dE-Business Suite or PeopleSoft. For example, `http://machinename.us.oracle.com:6362`.

The Drill-Through URL identifies the URL to use for drilling through. Users can drill through to Oracle General Ledger or PeopleSoft Enterprise Financial Management from an Enterprise Performance Management (EPM) system application that displays data loaded from the source system. When you click a hyperlink, you can navigate to the Oracle General Ledger Balances page or PeopleSoft Enterprise Financial Management Inquiry page.

**4 Click **Save**.**

After you add a source system, you can select the source system in the table and the details display in the lower pane.

After you register a source system, you must initialize the source system. Initializing the source system fetches all metadata needed in ERP Integrator, such as ledgers, chart of accounts, and so on. It is also necessary to initialize the source system when there are new additions, such as chart of accounts, segments / chartfields, ledgers, or responsibilities.

- 5 To initialize a source system, click **Initialize**.

**Note:** Depending on the size of the source system, it may take several minutes to initialize.

This feature is not available for SAP.

## Deleting Registered Source Systems

You can delete registered source systems if do not plan to use the source system with ERP Integrator.

---

**Caution!** Use caution when deleting registered source systems! When you delete a registered source system, the source system is removed from the Source System page and all import formats, locations, metadata rules, and data rules associated with the source system are removed.

---

➤ To remove a registered source system:

- 1 In the Tasks pane, select **Target Application**.
- 2 Use the Target Application page to remove all target applications that have rules or mappings to the source system.
- 3 In the Tasks pane, select **Source System**.  
The Source System page is displayed.
- 4 Select the source system you want to remove and then click **Delete**.

**Tip:** To undo a deletion, click *Cancel*.

- 5 Click **Save**.

## Editing Registered Source System Details

There may be times when source system details change. You can edit the source system details as needed. Keep in mind that once added, you should not modify the source system type.

➤ To edit registered source system settings:

- 1 In the Tasks pane, select **Source System**.
- 2 Select the source system.

- 3 Edit the source system details or ODI details as necessary.
- 4 Click **Save**.

If you make metadata changes in source system like adding new segment or chartfield values or hierarchies, you must initialize the source system.

- 5 Click **Initialize**.

## Predefining a List of Profiles

ERP Integrator ships with a predefined list of profiles. You can define values for these profiles to accommodate various business needs. Profiles can be set at the:

- System level (applies to entire system)
- Application level (applies to specific target application)
- User level (applies to a specific user)

If a value is set for a particular profile at the user level, the setting overrides the application level value. Some profile settings can be defined only at the application level. For example the Application root directory can be set only at the application level.

Application level settings are defined in the Application Settings option. User level settings are defined in the User Settings option. Users can enter, update and clear a profile values, but cannot add or delete profile settings.

## Setting System Level Profiles

Use the System Settings Option to update or clear System level profiles that apply to entire system. System settings can only be defined by user with "Admin" role privileges.

► To define system settings:



- 1 In the **Tasks** pane, under **Preferences**, select **System Settings**.

The System Setting screen is displayed.

- 2 Enter the **ODI details**:




**Note:** You should be familiar with Oracle Data Integrator and review the Oracle Data Integrator documentation set before specifying the ODI detail.

- a. In **ODI Agent URL**, enter the URL of the server where Oracle Data Integrator has been installed.
- b. In **ODI User Name**, enter the Oracle Data Integrator user name used to access the Oracle Data Integrator master repository. For example, enter "Supervisor".
- c. In **ODI Password**, enter the Oracle Data Integrator database schema used to access the Oracle Data Integrator master repository. For example, enter "MASTER".

- d. In **ODI Execution Repository**, enter the repository where all scenarios are stored. For example, enter “ERPI\_REF”.
- e. In **ODI Work Repository**, enter the repository where all processes, procedures, etc. are stored. For example, “ERPI\_WORK\_REF”.
- f. In **ODI Master Repository Driver**, enter the driver of the ODI master repository. You can also click  and select the driver from the Search and Select: Search and Select ODI Master Repository Driver screen. . For example, enter “oracle.jdbc.driver.OracleDriver”.
- g. In **ODI Master Repository URL**, enter the URL of the server where the Oracle Data Integrator master repository has been installed. You can also click  and select the URL from the Search and Select: ODI Master Repository URL screen. For example, enter “jdbc:oracle:thin:@serverdatabase.oracle.com:1521:orcl”.
- h. In **ODI Master Repository User**, enter the Oracle Data Integrator master repository user name.
- i. In **Oracle Master Repository Password**, enter the Oracle Data Integrator master repository password.

### 3 Enter default POV information:

**Tip:** You can also change the following default POV values in the User Settings option. If a value is set for a particular profile at the user level, the setting overrides the values at the system and application levels.

- a. In **Default POV Location**, enter the default POV location. You can also click  to navigate to and select the default POV location from the Search and Select: Default POV Location screen.
- b. In **Default POV Period**, enter the default POV Period. You can also click  to navigate to and select the default POV Period from the Search and Select: Default POV Period screen.
- c. In **Default POV Category**, enter the default POV Category. You can also click  to navigate to and select the default POV Category from the Search and Select: Default POV Category screen.
- d. In **POV Locked**, indicate if the POV is locked by entering **yes** or **no**.

### 4 In **Application Root Directory**, enter the root directory of the application.

### 5 In **Encrypted Password File Directory**, enter the directory where the files that store passwords in encrypted form is located.

This encrypted password file directory is used in conjunction with the “Update Configuration File” button. For more information, see [“Working with a Batch Script” on page 106](#).

- 6 Click **Save**.

## Setting Application Level Profiles


Use the Application Settings option to update or clear application level profiles that apply to the specific target application.

► To set an application level profile:


- 1 In the **Tasks** pane, under **Preferences**, select **Application Settings**.

The Application Settings screen is displayed.

- 2 From the \* **Target Application** drop-down, select the target application to which the application profile applies.

- 3 In **Default POV Location**, enter the default POV location. You can also click  to navigate to and select the default POV location from the Search and Select: Default POV Location screen.

- 4 In **Default POV Period**, enter the default POV Period. You can also click .

- 5 In **Default POV Category**, enter the default POV Category. You can also click  to navigate to and select the default POV Category from the Search and Select: Default POV Category screen.

- 6 In **POV Loaded**, indicate if the POV is loaded by entering **yes** or **no**.

- 7 In **Application Root Directory**, enter the root directory of the application.

- 8 **Optional:** To clear a setting, select the value and from your keyboard, click **Delete**.

The value is removed, but is deleted only when you save it.

- 9 Click **Save**.

## Setting User Level Profiles


Use the User Settings option to update or clear user level profiles that apply to the user.

**Note:** If the POV is locked, user settings are not applicable.



► To set a user level profile:

- 1 In the **Tasks** pane, under **Preferences**, select **User Settings**.

The User Settings screen is displayed.

- 2 In **Default POV Location**, enter the default POV location, You can also click  to navigate to and select the default POV location from the Search and Select: Default POV Location screen.



- 3 In **Default POV Period**, enter the default POV Period. You can also click  to navigate to and select the default POV Period from the Search and Select: Default POV Period screen.
- 4 In **Default POV Category**, enter the default POV Category. You can also click  to navigate to and select the default POV Category from the Search and Select: Default POV Category screen.
- 5 **Optional:** To clear a setting, select the value and from your keyboard, click **Delete**.  
The value is removed, but is deleted only when you save it.
- 6 Click **Save**.

## Working with Source Adapters

A source adapter is new integration framework in ERP Integrator that allows you to extract data from source system in a flexible and customizable manner. A source adapter consists of two components:

- Oracle Data Integrator (ODI) Project—Contains the code to extract and load the data from the source system to the ERP Integrator staging tables.
- Adapter Definition XML—Contains the definition of the integration. It contains three components Source Columns, Parameters and Drill URL.

In this release there are two pre-packaged integrations delivered using this framework:

- SAP ERP Financials
- Open interface to load from any source system

## Using Pre-Packaged Installations

For pre-packaged integrations, the integration is provided by Oracle, and Oracle's partner, Bristlecone. Oracle delivers the Oracle Data Integrator (ODI) Project and an Adapter Definition XML file. For the SAP integration, Bristlecone delivers the ODI Project and Adapter XML. Please refer to the readme for details on downloading from Bristlecone.

➤ To use the pre-packaged integration:

- 1 Copy the **ODI** files to a location accessible by ODI Studio.
- 2 Copy the **Adapter Definition XML** to a location under the direction setup as Application Root Directory in System Settings.
- 3 Use the ODI Studio to import the **Project & Model definitions** into the Work Repository setup for ERP Integrator.
- 4 Use the Source Adapter screen to import the Adapter XML file.

To import a file:

- a. In the *Tasks* pane, under *Setup*, select *Source Adapter*.

The Source Adapter screen is displayed.

- b. From the Source Adapter Summary task bar, select *Import*.

The Select file to import screen is displayed.

- c. Navigate to the file to import and click **OK**.

The file name will depend on the adapter they want to use. For example, you might select:

- Open\_Interface\_Adapter.xml
- SAP\_GLNew\_Adapter.xml
- SAP\_GLClassic\_Adapter.xml
- SAP\_PC\_Adapter.xml
- SAP\_CC\_Adapter.xml

- d. *Optional*: To browse for a file, select *Upload*.

The Select a file to upload screen is displayed.

- e. If necessary, click *Browse* to navigate to the file to import and then click *OK*.

## 5 Create an import format of new type **Source Adapter** that defines the mapping between the source columns (identified in the source adapter) and the target application dimensions.

After defining the import format, Regenerate the ODI Scenario to generate an ODI Scenario based on the new mapping.

## 6 Define the **Locations and Data Rule**.

When you execute the data rule, the new ODI Scenario associated with the import format is used to extract the data from the source and stage it in the ERP Integrator staging table (TDATESEG).

## Adding Source Adapter Definitions

Use the Source Adapter screen to review pre-packaged adapters or customize pre-packaged adapters. Do not directly modify the pre-packaged adapters. As Oracle ships updates to the pre-packaged adapter, the changes you make are overwritten. Always make a copy of the pre-packaged adapter and make the necessary changes. You can also use this screen to create new custom adapters for custom load integrations. The Source Adapter screen includes three sections:

The Source Adapter screen includes three sections:

- Source adapter information summary. See [“Defining Source Adapter General Information” on page 51](#).
- Source adapter detail. See [“Defining Source Adapter Detail” on page 53](#).
- Three sub-tabs from which you select: source columns information, parameters to pass to the ODI scenario, and URLs for drill through.

For more information, see:

- “Selecting Source Columns” on page 53
- “Defining Parameters” on page 54
- “Defining URLs for Drill Through” on page 55

## Defining Source Adapter General Information

Use the Source Adapter Summary section to view, define, delete, export, import and copy summary information about a source adapter.

### Adding a Source Adapter

► To add a source adapter:

**1 In the Tasks pane, under Setup, select Source Adapter.**

The Source Adapter screen is displayed.

**2 From the Source Adapter Summary task bar, click Add.**

Blank entry rows are added to the Source Adapter Summary section.

Complete the following steps in the Source Adapter Details section.

**3 In \*Adapter Key, enter a user defined identifier for the adapter.**

For example for an EBS source adapter, you could enter *EBS111*. The value in this field and cannot be modified after it has been created.

**4 In \*Adapter Name, enter a user defined name for the adapter.**

For example, you could enter *EBS1 11 Adapter*.

**5 In \*ODI Project Name, enter the name of the package or scenario.**

**6 In \*ODI Object Type drop-down, select either Package or Scenario.**

- Package—A Package is made up of a sequence of steps organized into an execution diagram. Packages are the main objects used to generate scenarios for production. When Package is selected as the ODI object type, then the source columns are shown, and a user can specify maps in the import format in which the scenario will be generated.
- Scenario—ODI compiled code which must match exactly as specified in the ODI

**7 In ODI Object Project code, enter the template ODI project code.**

**8 In \* Source System Type drop-down, select the source application type.**

**9 Click Save.**

### Deleting a Source Adapter

Deleting a source adapter removes the parameters, drill down URLs and source columns associated with the source adapter.

➤ To delete a source adapter:

- 1 In the **Tasks** pane, under **Setup**, select **Source Adapter**.

The Source Adapter screen is displayed.

- 2 In **Source Adapter Summary** grid, select the source adapter and click **Delete**.

The message: “This will also delete associated Parameters, Drill Down URLs and Source Columns. Delete Source Adapter?”

- 3 Click **OK**.

## Exporting a Source Adapter

Use the Export feature to migrate an adapter definition from environment to another in .XML file format.

➤ To export a file:

- 1 In the **Tasks** pane, under **Setup**, select **Source Adapter**.

The Source Adapter screen is displayed.

- 2 From the **Source Adapter Summary** task bar, select either **Export Current** or **Export All** from the **Export** drop-down.

- Export Current—Exports a selected source adapter from the Source Adapter Summary list.
- Export All—Exports all source adapters from the Source Adapter Summary list.

The Specify file location screen is displayed.

- 3 To export a selected file, navigate to the file to export and click **OK**.

The Open File screen is displayed.

You can type the full path name and file name in the *File Name* field.

- 4 **Optional:** Save the file to a local directory on the desktop.
- 5 **Optional:** To browse for a file to export, select **Upload**, and browse to the file to export. When the File Upload screen is displayed, navigate to the file to upload and click **Open**.
- 6 Click **OK**.

## Importing a Source Adapter

➤ To import a source adapter:

- 1 In the **Tasks** pane, under **Setup**, select **Source Adapter**.

The Source Adapter screen is displayed.

- 2 From the **Source Adapter Summary** task bar, select **Import**.

The Specify file to import n screen is displayed.

**3** Navigate to the file to import and click **OK**.

The Open File screen is displayed.

**4** Select to open the .XML file or save it to a directory of your choice.

**5** **Optional:** To browse for a file to import, select **Upload**, and browse to the file to import. When the File Upload screen is displayed, navigate to the file to upload and click **Open**.

**6** Click **OK**.

The source adapter is added to the summary list.

## Copying a Source Adapter Key

You can copy a source adapter key and its associated detail to a new adapter key.

► To copy a source adapter key:

**1** In the **Tasks** pane, under **Setup**, select **Source Adapter**.

The Source Adapter screen is displayed.

**2** From the **Source Adapter Summary** task bar, select **Copy**.

The Copy screen is displayed.

**3** Enter the name of the new adapter key and click **OK**.

## Defining Source Adapter Detail

When you have associated the source adapter with a source system type, the next steps include:

- Selecting Source Columns. See [“Selecting Source Columns” on page 53](#).
- Defining Parameters. See [“Defining Parameters” on page 54](#).
- Defining URLs for drill through. See [“Defining URLs for Drill Through” on page 55](#).

## Selecting Source Columns

Use source columns to specify the columns that are available for mapping in the import format. There is no validation of the table or column names in this section - the source columns are registered so that they are available in import format for mapping.

### Adding Source Columns

The source columns added in this section must match the columns specified in the data model for the source table in the Oracle Data Integrator.

► To add a source column:

**1** In the **Tasks** pane, under **Setup**, select **Source Adapter**.

The Source Adapter screen is displayed.

Select the **Source Column** tab.

**2 From the Source Column task bar, select Add.**

Entry fields appear for the Column Name, Table Name, and Display Name columns.

**3 In Column Name, enter the source column name.**

For example, enter “SEGMENT1”. The source column name must have a corresponding column name in the ODI model.

**4 In Table Name, enter the table name.**

For example, enter “LOGICAL\_BALANCES”. The table name must have a corresponding table name in the ODI model.

**5 In Display Name, enter the display name used for the Import format.**

## Defining Parameters

Use the Parameters tab to specify the list of parameters for a ODI Scenario. The parameter definition includes a non-translated parameter name and a translated prompt. The prompt is used for display in the data rule page.

This section includes information on:

- Adding Parameters. See [“Adding Parameters” on page 54](#).
- Deleting Parameters. See [“Deleting Parameters” on page 55](#).

## Adding Parameters

When you add a parameter for the source adapter, definition is created which includes a non-translated parameter name and a translated prompt.

► To add a source column:

**1 In the Tasks pane, under Setup, select Source Adapter.**

The Source Adapter screen is displayed.

**2 Select the Parameters tab.**

**3 From the Parameters task bar, select Add.**

Entry fields appear for the Parameter Name, Parameter Data Type, and Parameter Prompt columns.

**4 In Parameter Name, enter the parameter name.**

For example, enter “p\_actual\_flag”. This is the name of the parameter in the ODI project.

**5 In the Parameter Data Type drop-down, select the data type of the parameter:**

- Char
- Number
- Date

## 6 In **Parameter Prompt**, enter the parameter prompt.

For example, you might enter “Balance Type” in this row.

**Note:** When a new parameter is added and you are in a multi-language environment, then set the browser locale to the appropriate language and edit the prompts as needed in that language.

## Deleting Parameters

► To delete a parameter:

### 1 In the **Tasks** pane, under **Setup**, select **Source Adapter**.

The Source Adapter screen is displayed.

### 2 Select the **Parameters** tab.

### 3 From the **Parameters** task bar, select the parameter and click **Delete**.

The Delete Source Adapter Parameter screen is displayed.

### 4 Click **OK**.

## Defining URLs for Drill Through

ERP Integrator provides a framework for using URLs for drill through. You simply click the hyperlink in the amount cell and the source system is launched in a new EPM Workspace tab or a new window. Multiple drill URLs are provided to drill to difference pages in the source system based on the import format mapping.

**Note:** For more information about the ERP Integrator drill through feature, see [“Drilling Through” on page 15](#).

## Adding Drill Through URLs

To create a drill through URL, specify the URL name, URL, request method and URL prompt.

► To add a drill URL:

### 1 In the **Tasks** pane, under **Setup**, select **Source Adapter**.

The Source Adapter screen is displayed.

### 2 Select the **Drill URL** tab.

### 3 From the **Drill URL** task bar, select **Add**.

Entry fields appear for the Drill URL Name, Drill URL, Request Method, and Drill URL Prompt columns.

### 4 In **Drill URL Name**, enter a user defined name for the drill through URL.

### 5 In **Drill URL**, enter the URL used for the drill through.

Enter the URL without the server and port information. The URL must contain the parameter name and column name from the TDATASEG table enclosed in the symbol \$.

For example, you might enter: LEDGER\_ID=\$ATTR1\$=\$ATTR2\$= \$ATTR2\$&=\$ACCOUNT\$

In the above example the value of ATTR1 will be passed as a value for the LEDGER\_ID parameter, and ATTR2 will be passed as a value for the GL\_PERIOD parameter.

In some cases the column name in ERP Integrator staging table name may depend on the mapping created in import format. In order to instruct the system to derive the column name based on the import format enclose the source column name in the symbols \$\$.

For example, you might enter COMPANY\_CODE=\$\$RBUKRS\$=\$\$RACCT\$\$\$

In the above example the value for COMPANY\_CODE parameter is determined using the import format. If RBUKRS is mapped to the ENTITY dimension, then the value of the ENTITY column will be passed as the parameter.

From the **Request Method** drop-down, select either **Get** or **Post**,

- Get—Form data is encoded into the URL.
- Post—Form data appears in the message body.

**6 In the Drill URL Prompt, enter a user defined prompt for the drill through prompt.**

For example, you could enter “Default”.

## Deleting Drill URLs

► To delete a drill through URL:

**1 In the Tasks pane, under Setup, select Source Adapter.**

The Source Adapter screen is displayed.

**2 Select the Drill URL tab.**

**3 From the Drill URL task bar, select the drill through URL and click Delete.**

The Delete Source Adapter Drill URL screen is displayed.

**4 Click OK.**

## Enabling FDM Applications

You can enable applications registered in FDM to be registered as target applications in ERP Integrator. For example, Oracle Hyperion Strategic Finance, Fusion Edition or Hyperion Enterprise are registered in FDM, but are not registered in Oracle's Hyperion® Shared Services. After you enable the applications, you can define import formats, locations, and data load rules in ERP Integrator.

**Note:** ERP Integrator supports loading data and drill through for FDM applications, but does not support loading metadata or writing-back data for applications registered in FDM.



➤ To enable FDM applications:

**1 In the Tasks pane, select FDM Application.**

The FDM Application page is displayed.

**2 Click Add.**

**3 In the Name field, enter the FDM application schema name.**

**4 Enter the User Name and Password for the application schema.**


**5 Optional: Select Remote Database.**

If FDM accesses a database that is different from the ERP Integrator database, select *Remote*.

If FDM accesses the *same* database as ERP Integrator, do not select Remote Database since ERP Integrator obtains the connection information from the Oracle's Hyperion Shared Services Registry.

**Note:** FDM and ERP Integrator must be on the same database platform. Either on Oracle or SQL Server.

**6 For SQL Server databases only: Enter the SQL Server Database Name.**

**7 If you selected Remote Database, click  to select a generic JDBC URL address. Then, modify the <host>, <port>, and <SID>. For example, server.oracle.com:1521:orcl.**

**8 To test the connection, click Test Connection.**

**9 Click Save.**

**10 Define the import format. See [“Working with Import Formats” on page 63](#).**

## Registering Target Applications

### Subtopics

- [Adding Lookup Dimensions](#)
- [Defining Application Dimension Details](#)
- [Defining Application Properties for Public Sector Planning and Budgeting Applications](#)
- [Deleting Registered Target Applications](#)

You must register target applications for use with ERP Integrator. When you register target applications, you select the target application that pulls in metadata and/or data from one or more source systems.

➤ To register target applications:

**1 In the Tasks pane, select Target Application.**

The Target Application page is displayed.

**2 Click Add to register a target application.**

The Select Application dialog box automatically displays.

**3 Select the application type. Valid application types are:**

- Financial Management
- Planning
- Essbase
- Applications registered in FDM

**4 For Planning, Financial Management, and Essbase applications: Select the application (name).**

**5 For applications registered in FDM: Select the FDM application, then select the name.**

**6 Click OK.**

**7 Select the default Language.**

To understand how languages are processed, see [“How Languages are Processed”](#) on page 36.

The Metadata Load Method is automatically detected when you select an application. The metadata load methods are:

- **EPMA**—Loads metadata into the Performance Management Architect interface tables and then utilizes an automatically generated import profile to load the metadata into Performance Management Architect. The import profile pulls from the interface tables for dimensions and the Data Synchronizer pushes the data. The import profiles are named “ERPI System Profile xxx” where xxx is the Rule ID, that is being run. (ERP Integrator creates an import profile for Performance Management Architect with the “Merge as Primary” option selected.)
- **Classic**—Loads metadata directly to the Classic EPM application. (ERP Integrator merges the metadata into the Classic application.)
- **Not Applicable**—Not applicable for applications registered in FDM.

**8 Select the Data Load Method.**

Data load method options are:

- **EPMA**—Loads data via the interface tables and data synchronization.
- **Classic**—Loads directly to the Classic EPM application.
- **FDM**—Data is copied from ERP Integrator to FDM database tables. For setup and configuration information, see the *Financial Data Quality Management ERP Source Adapter for SAP FIN-B Readme*.

**9 Select Yes or No to create a drill region.**

If you select Yes, to create a drill region, a drillable region is created to utilize the drill through feature for Financial Management or Planning data. If the data load method is FDM, the drill region creation is handled by FDM.

**Note:** ERP Integrator does not support drilling through to human resource data.

- The drill region URL allows Financial Management, Planning, Oracle Hyperion Smart View for Office, Fusion Edition, and Oracle Hyperion Financial Reporting, Fusion Edition to drill to the proper landing page.
- When loading data from FDM or ERP Integrator, the drill region is loaded to either Financial Management or Essbase (for Planning).
- A drill region includes Account/Scenario/Year/Period for Financial Management or Entity/Account/Scenario/Year/Period for Planning, a URL to get back to either FDM or ERP Integrator and a region name. For Essbase, the drill region is based on the dimensions you select when defining the application details.
- You can load data to Oracle's Hyperion® Enterprise® only through FDM, unlike Planning and Financial Management. In this case, you can drill only to FDM and then to the source from Oracle Hyperion Financial Data Quality Management, Fusion Edition.

10 If using an Essbase database, select the **Essbase Database Name**.

11 Click **Save**.

12 Next, define the dimension details. See [“Defining Application Dimension Details” on page 60](#).

**Note:** If you are registering an application for use with FDM only, the dimension details are automatically defined and the registration process is complete.


## Adding Lookup Dimensions

Lookup dimensions can be created and assigned with data columns for target applications. Lookup dimensions are used for calculations and reference. They can only be used in ERP Integrator, and do not impact the dimensionality of a target application. They can also be used with member mapping functionality to cross reference multiple source segments and chartfields, and assign a target value.

➤ To add a lookup dimension:

1 In the **Tasks** pane, select **Target Application**.

The Target Application page is displayed.

2 In the **Dimension Details** section, click .

The Add / Edit Lookup Dimension screen is displayed.

3 Click .

Blank dimension name and data table column name entry fields are displayed.

4 In **Dimension Name**, enter the lookup dimension name.

5 In the **Data Table Column Name** drop-down, select the data column from which to base the lookup dimension.


6 Click **OK**.

The lookup dimension is added to the dimension detail list with the target dimension class name of “LOOKUP”.

## Defining Application Dimension Details

The dimension details differ for each application type. For Public Sector Planning and Budgeting and Essbase applications, you reclassify the dimensions and change the dimension class, as necessary.

➤ To define dimension details:

- 1 After defining the application details, on the Dimension Details tab, enter or click  to select the **Target Dimension Class** for each dimension that is not defined in the application.


The dimension class is a property that is defined by the dimension type. For example, if you have a Period dimension, the dimension class is also “Period.” For Essbase applications, you must specify the appropriate dimension class for Account, Scenario, and Period. For Public Sector Planning and Budgeting applications, you must specify the dimension class for Employee, Position, Job Code, Budget Item, and Element.

**Tip:** You can click Refresh Metadata to synchronize the application metadata from target application.

- 2 **For Essbase applications only:** Select **Create Drill Region** for the dimensions that you want to create a drill region.
- 3 Click **Save**.

The target application you selected is now ready for use with ERP Integrator.

- 4 **For Public Sector Planning and Budgeting applications only:** Define the application properties. See [“Defining Application Properties for Public Sector Planning and Budgeting Applications” on page 60](#).

**Tip:** To edit the dimension details, select the target application, then edit the application or dimension details, as necessary. To filter applications on the Target Application page, ensure that the filter row is displaying above the column headers. (Use the  to toggle the filter row.) Then, enter the text to filter.

## Defining Application Properties for Public Sector Planning and Budgeting Applications

After defining the application details and dimension details, for Public Sector Planning and Budgeting applications, you define the application properties. In ERP Integrator, you must specify a parent member to populate all dimensions applicable for your model. You can optionally enter a parent member for earnings and benefits.

You should enter the value, as necessary for the following properties:

- Budget Model Type—The Public Sector Planning and Budgeting model. (For Employee only, enter **EMPLOYEE**, For Position only, enter **POSITION**, or for both Employee and Position, enter **EMPLOYEE\_AND\_POSITION**.)
- Parent Member for all Positions—Enter the parent member for all positions imported from your human resource source system. For example, “Total Existing Positions.”
- Parent Member for all Entity—Enter the parent member for all departments imported from your human resource source system. For example, “Total Entity.”
- Parent Member for all Employees—Enter the parent member for all employees imported from your human resource source system. For example, “Existing Employees.”
- Parent Member for Salary Elements—Enter the parent member for salary grades imported from your human resource source system. For example “Salary Grades.”
- Parent Member for Earnings Elements—Enter the parent member for earnings codes imported from your human resource source system. For example, “Additional Earnings.”

Specifying parent members for earnings and benefit elements is optional. If you do not specify a parent member, the corresponding elements will not get loaded into the application when you run the human resource data load rule.

- Parent Member for all Job—Enter the parent member for all job codes imported from your human resource source system. (The parent member for job is applicable only to Employee Only models.)
- Parent Member for Benefit Elements—Enter the parent member for benefit codes imported from your human resource source system. For example, “Benefit Defaults.”

➤ To define application properties:

- 1 After defining the application details and dimension details, select the **Application Properties** tab.
- 2 Enter the values that you want to map for each property name.
- 3 Click **Save**.

The target Public Sector Planning and Budgeting application that you selected is ready for use with ERP Integrator.

## Deleting Registered Target Applications

Use caution when deleting registered target applications. When you delete a registered target application, the target application is removed from the Target Application page and all metadata and data rules associated with the application are removed.

➤ To delete a registered target application:

- 1 In the **Tasks** pane, select **Target Application**.  
The Target Application page is displayed.
- 2 Select the target application that you want to remove and then click **Delete**.
- 3 Click **OK**.

When you delete a target application, the application is marked for deletion and is not available for any metadata or data rule processes including the import format and location creation options. All the existing rules involving the target application will be removed.

**Note:** After a target application is deleted and the process has run successfully, you can use the Target Application page to set up the same application and redefine the rules.

#### 4 Click **Save**.

## Selecting Source Accounting Entities

Select accounting entities to specify the Fusion Financials or ledgers or PeopleSoft business units from which the metadata and/or data is extracted.

After you register and initialize your source systems for use with ERP Integrator, you select the source system accounting entities (ledgers or business units) that you want to use for integration. Segments and chartfields are the terminologies specific to Fusion, E-Business Suite and PeopleSoft.

► To select source accounting entities in a source system:

#### 1 In the **Tasks** pane, select **Source Accounting Entities**.

The Source Accounting Entities page is displayed.

#### 2 Select the source system type.

#### 3 Select a source system.

The source accounting entities are displayed in a grid. You can click the column header to sort any column. The Source Accounting Entities page displays the following columns.


For Fusion and E-Business Suite source systems:

- **Select**—A check mark indicates that the accounting entity (ledger) is available.
- **Accounting Entity**—Name of the ledger.
- **Chart of Accounts**—Chart of accounts name.
- **Currency**—The functional currency of the Fusion and E-Business Suite ledger.
- **Calendar**—The Fusion and E-Business Suite ledger calendar. The Fusion and E-Business Suite ledger is a collection of chart of accounts, currency, and calendar. For example, 4-4-5, Weekly, Accounting, and so on.
- **Responsibility Name**—Displays the general ledger drill through responsibility. The drill through responsibility must be set in ERP Integrator to enable users to drill through to E-Business Suite. The responsibility selected must have the authority to view summary journals and journal details for the selected ledger in the E-Business Suite.

For PeopleSoft source systems:

- **Select**—Select the check box to make the business unit available.

- Business Unit—Business unit name.
  - Currency—The base currency for the business unit.
- 4 For Fusion and E-Business Suite source systems, select the general ledger **Responsibility Name**. See [“Assigning General Ledger Responsibility” on page 63](#).
  - 5 For each ledger or business unit that you want to make available in ERP Integrator, select the check box.
  - 6 Click **Save**.

**Tip:** To filter by the business unit or accounting entity, ensure that the filter row is displaying above the column headers. (Use the  to toggle the filter row.) Then, enter the text to filter.

## Assigning General Ledger Responsibility

In the Fusion and E-Business Suite General Ledger, the system administrator assigns users general ledger responsibility. General ledger responsibility provides the authentication required for ERP Integrator to drill through to the Fusion and E-Business Suite journal summary page.

➤ To assign general ledger responsibility:

- 1 On the **Source Accounting Entities** page, in the **Responsibility Name** column, click  to select a **General Ledger Responsibility**.

The Responsibility Name is the Responsibility ID the user will be logged in under when drilling through to the source system. Select the responsibility name *only* if you want to drill through, otherwise leave it blank.

- 2 Repeat the above process as necessary for all selected ledgers in the source system.
- 3 Click **Save**.

## Working with Import Formats

### Subtopics

- [Defining the Import Format](#)
- [Defining Import Format Mappings](#)
- [Defining the Data Load Mappings](#)
- [Defining the Write-Back Mappings \(EBS and PeopleSoft only\)](#)

You define import formats to map source segments or chartfields to target dimensions. You can create import formats to:

- Define the import format mapping between the source system segments or chartfields and the EPM target application's dimensions (used in the metadata load and data load process).

- Define the import format mapping between the EPM target application's dimensions and the source system segments or chartfields (used in the budget write-back process).
- Define and maintain import format information and import format mapping information for: columns in the source system and EPM target applications for source adapter based integrations.

You define separate import formats for data load rules and write-back rules. See [“Defining Data Load Rules to Extract Data” on page 95](#) and [Chapter 6, “Data Write-Back.”](#)

**Note:** You do not need to define import mappings for use with human resource source systems.

You work with import formats on the Import Format screen, which consists of three sections:

- Import Format Summary—Displays common information relevant to all source types: Name, source system, accounting entity, source adapter, and target application.
- Import Format Detail—Enables you to add and maintain import format information.
- Import Format Mappings—Enables you to add and maintain import format mapping information.


## Defining the Import Format

Use the Import Format Summary section to view, add and delete import format summary information.



## Viewing Import Format Information

**Table 3** Import Format View Options and Descriptions

View Option	Description
	<p>Customizes views. Options include:</p> <ul style="list-style-type: none"><li>● <b>Columns</b>—Select the columns to display in the data grid including:<ul style="list-style-type: none"><li>○ Show All</li><li>○ Name</li><li>○ Source System</li><li>○ Accounting Entity</li><li>○ Source Adapter</li><li>○ Target Application</li></ul></li><li>● <b>Reorder Columns</b>—Use to change the order of the column. When you select this option, the Reorder Columns screen is displayed. You can select a column and then use the scroll buttons on the right to change the column order.</li><li>● <b>Detach/Attach</b>—Detaches columns from the data grid. Detached columns display in their own window. To return to the default view, select <i>View</i>, and then click <i>Attach</i> or click <i>Close</i>.</li><li>● <b>Query by Example</b>—Use to toggle the filter row. You can use the filter row to enter text to filter the rows that display for a specific column. You can enter text to filter on, if available, for a specific column, and then press [Enter]. To clear a filter, remove the text to filter by in the text box, then press [Enter]. All text you enter is case sensitive.</li></ul>

## Adding Import Formats

Two types of import formats can be added based on the source system type:

- accounting entity
- source adapter

When adding formats, note that specific import format detail fields are available or unavailable based on the source system type.

➤ To add an import for an accounting entity:

- 1 In the **Tasks** pane, under **Setup**, select **Import Format**.
- 2 In the **Import Format Summary** task bar, select **Add**.

Complete the following steps in the Import Format Details section.

- 3 In **Name**, enter a user defined identifier for the import format.

The value in this field cannot be modified once a mapping has been created for this import format.

- 4 In the **Source System**, select an accounting entity source system type.
- 5 In the **Accounting Entity** drop-down, select the accounting entity.

For Fusion and E-Business Suite source systems, the Accounting Entity is the ledger. For PeopleSoft source systems, the Accounting Entity is the business unit.

- 6 In the **Target Application** drop-down, select the target application.
- 7 In the **Description**, enter a description of the import format.
- 8 Define the import mappings from the source system. See [“Defining the Data Load Mappings” on page 69.](#)

For information on one-to-one mappings and many-to-one mappings, see [“Defining Import Format Mappings” on page 68.](#)

- 9 Define the import mappings from the EPM application. See [“Defining the Write-Back Mappings \(EBS and PeopleSoft only\)” on page 70.](#)

➤ To add an import format for a source adapter:

- 1 In the **Tasks** pane, under **Setup**, select **Import Format**.
- 2 In the **Import Format Summary** task bar, select **Add**.

Complete the following steps in the Import Format Details section.

- 3 In **Name**, enter a user defined identifier for the import format.

The value in this field cannot be modified once mapping has been created for this import format.

- 4 In **Source System**, select the source adapter.

- 5 In **Source Adapter**, select the source adapter name.

Any time you add or modify import format based on Source Adapter, you must select “Regenerate ODI Scenario”. See [“Regenerating the ODI Scenario \(Source Adapters only\)” on page 67.](#)

When you specify an import format with a source system, you can map source columns defined in the source adapter to the target dimensions. After defining the mapping, you need to initiate the ODI Scenario Generation process. This process generates a new ODI scenario based on the source adapter import format.

You can either specify a source accounting entity or source adapter, but not both.

- 6 In the **Target Application** drop-down, select the target application.
- 7 In **Drill URL**, enter the URL which identifies the URL to use for drilling through when using this import format.
- 8 In the **Description**, enter a description of the import format.
- 9 Define the import mappings from the source system. See [“Defining the Data Load Mappings” on page 69.](#)

For information on one-to-one mappings and many-to-one mappings, see [“Defining Import Format Mappings” on page 68.](#)

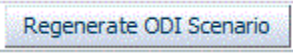
- 10 Define the import mappings from the EPM application. See [“Defining the Write-Back Mappings \(EBS and PeopleSoft only\)” on page 70.](#)

## Regenerating the ODI Scenario (Source Adapters only)

Any time you add or modify an import format or import format mapping based on a source adapter, you must regenerate the ODI scenario.

Regenerating the ODI:

- Makes a copy of the ODI Template Project with the required changes.
  - Updates the necessary mappings based on the import format.
  - Updates available source columns in ERP IntegratorAdapter.
  - Update any new parameters for filtering source data.
  - Adds or modifies the Drill-through URL.
  - Generates a new ODI Scenario.
- To regenerate the ODI scenario for a source adapter, from the **Import Format** task bar, click

A rectangular button with a light blue gradient and a thin border, containing the text "Regenerate ODI Scenario" in a dark blue font.

## Editing Import Formats


- To edit an import format, select the import format and make changes as necessary.

## Deleting an Import Format

- To delete an import format:
- 1 In the **Tasks** pane, under **Setup**, select **Import Format**.  
The Import Format screen is displayed.
  - 2 In **Import Format Summary** grid, select the import format and click **Delete**.  
The Delete Import Format Screen is displayed.
  - 3 Click **OK**.

## Querying by Example

You can filter the imports in the Import Format Summary section using the Query by Example feature. To filter by adapter name, ensure that the filter row is displaying above the column headers.

- To query by example:
- 1 In the **Tasks** pane, under **Setup**, select **Import Format**.  
The Import Format screen is displayed.
  - 2 From the **Import Format** task bar, select .

A blank row is displayed above the column headers.

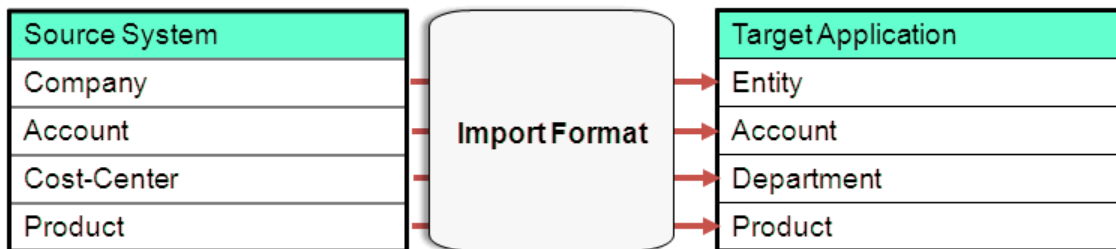
**3 Enter text to filter the rows that display.**

## Defining Import Format Mappings

When you create an import, you define the settings and the import format mapping definition. You can create:

- **One-to-One Mappings**—Single Segment and Single Chartfield mappings:
  - Define a simple one-to-one mapping between source segments and target dimension members.
  - Pull all members from the source value set as members into the target dimension.

The following figure shows a one-to-one mapping between segments or chartfields in a source system and dimensions in a target EPM application.



**Note:** Each member in the source is created as a single member in the target dimension.

- **Many-to-One Mappings**—You can concatenate segments or chartfields to map multiple segments or chartfields from the source into a single EPM dimension member.

When dimensions are mapped as a concatenated segment, the new dimension is created based on the traversal order that you define for the source hierarchies into the concatenated member target dimension. Up to five segments may be concatenated into the target dimension. The following table shows an example of how the segments map to dimensions. In this example, two segments (Company and Department) map to one dimension (Entity).

Segment / Chartfield	EPM Dimension
Company	Entity
Department	
Product	Product
Account	Account

## Defining the Data Load Mappings

When you define an import format, you define the import format mappings for the metadata and data rule from the ERP source system.

► To define the ERP system import format mappings:

**1 In the Tasks pane, under Setup, select Import Format.**

The Import Format screen is displayed.

**2 If necessary, select the Data Load Mapping tab.**

**3 For Fusion and E-Business Suite source systems: Select one or more general ledger source segments.**

You can concatenate segments to map multiple segments from the source into a single EPM target dimension. The drop-down list displays all of the source system segments for the accounting entity that you selected when you defined the import format details.

**Note:** Verify your entries and ensure that if you enter Segment 1, Segment 2, and Segment 3 that the segments are displayed in sequence. For example, Segment 3 should not come before Segment 1. Entering segments out of sequence can cause an error.

**Note:** For Financial Management applications, concatenate segments is *not* available if your target dimension is an Entity dimension type. Typically the intercompany segment in Fusion and E-Business Suite or affiliate in PeopleSoft is related to a company or business unit. If concatenation were allowed, you could not determine the ICP dimension value.

**4 For PeopleSoft source systems: Select one or more chartfields, as necessary.**

The drop-down list displays all of the source system chartfields for the Accounting Entity (business unit) that you selected for the import format.

**5 Enter the target EPM dimension name.**

**6 Repeat the steps above as necessary.**

**7 For target applications with the FDM data load type: Enter the concatenation character.**

For non-FDM data loads and metadata loads, the underscore character “\_” is used to concatenate two segments. For FDM data loads, you cannot use an underscore character with a mapping that uses the “Like” method. Therefore, for FDM mappings, you can specify a different concatenation character for the data load mapping details.

**8 Click Save.**

**9 For Oracle Fusion, E-Business Suite and PeopleSoft Enterprise Financial Management source systems: Define the EPM application import mappings for data write-back. See [“Defining the Write-Back Mappings \(EBS and PeopleSoft only\)”](#) on page 70.**

**10 For PeopleSoft Human Capital Management source systems: The import format setup is complete.**

## Defining the Write-Back Mappings (EBS and PeopleSoft only)

When you define an import format, you can also define the import format mappings from the EPM application for the data write-back rule. In situations where you have imported data from your source system and want to write-back, the auto create option identifies the original data load mapping and creates the reversal of the mapping.

When you create the write-back mapping definition, you can map one dimension to one segment mapping where no data load mapping is available. If a data load mapping is available, then that is the basis for the transformation. Inbound import formats are defined using the Data Load Mapping tab and write-backs are defined using the Write-back Mapping tab.

► To define the write-back import format mappings:

- 1 On the Import Format page, select the **Import Name**.
- 2 Select the **Write-back Mapping** tab.
- 3 **Optional:** Click **Autocreate** to automatically create import mappings from the EPM application dimension (source) to the target ERP source system segment or chartfield. Then, click **OK**.

In scenarios where data load mappings are available (metadata or data was sourced from the ERP source system using ERP Integrator) the same mappings can be reverse engineered to identify the EPM target application to ERP source system mappings.

### Example 1: Single Segment Mappings

**Table 4** Mappings Set for the ERP Source System to EPM Target Application

Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Dimension
Company					Entity
Cost Center					Department
Account					Account
Product					Product
Location					Location

When you click the Auto Create button, ERP Integrator automatically identifies the inward mappings and populates the EPM to ERP mapping as shown in the following example.

**Table 5** Automatic Creation of the EPM Target Application Mapping

Source Dimension	Target Segment or Chartfield
Entity	Company
Department	Cost Center
Account	Account
Product	Product

Source Dimension	Target Segment or Chartfield
Location	Location

**Note:** When EPM Target Application Mappings are automatically created, they extract the appropriate segment from a concatenated dimension and split it back when writing back the data.

## Example 2: Concatenated Segment Mappings

**Table 6** Mappings Set for the ERP Source System to EPM Target Application

Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Dimension
Company					Entity
Location	Cost Center				Department
Account					Account
Product					Product

When you click the Auto Create button, ERP Integrator automatically identifies the inward mappings and populates the EPM to ERP mapping as shown in the following example.

**Table 7** Automatic Creation of the EPM Target Application Mapping

Source Dimension	Target Segment or Chartfield
Entity	Company
Department	Cost Center
Department	Location
Account	Account
Product	Product

#### 4 If you are not using the “Auto Create” option:

- a. Select each source dimension.
- b. For each dimension, enter the target segment or chartfield name.

**Tip:** For E-Business Suite, you can use the same import format for multiple locations if you have multiple source accounting entities that use the same chart of accounts and are mapped to the same target applications. For PeopleSoft, you can reuse the same import format for multiple locations if you have source business units that share the same SETID for all chartfields and are mapped to the same target applications.

#### 5 Click **Save**.

# Defining Locations

You define locations to specify where you want to load the data. Locations allow you to use the same Import Format for more than one target application where the dimensionality of the target applications is the same.

► To create, edit, and delete import locations:

1 In the Tasks pane, select **Location**.

2 To add a location, click **Add**.

3 Enter the location name.

4 Enter or click  to select the **Import Format**.


The source system is automatically populated based on the import format.

5 **Optional:** Enter or click  to select the **Accounting Entity**. (For E-Business Suite, the ledger. For PeopleSoft, the business unit.)

If the accounting entity is selected here, then in the Data Load Rules, accounting entity populates automatically. See [“Defining the Data Load Details” on page 96](#).

If the accounting entity is not specified here, you can specify the accounting entity in data rules. This allows you to load data from multiple ledgers to business units from a single location.

You can use locations with multiple import formats. For example, you can define the import format for the first location, Ledger 1. Then, define another import format for Ledger 2. In this case, you would create multiple locations with the same import format. You can also define multiple locations for target applications that are the same. In this case, you can define multiple locations for each business unit or ledger and reuse the import format.

6 Enter or click  to select the **Target Application**.

The functional currency is automatically determined by the source accounting entity.

**Note:** When you create a location using a PeopleSoft Human Capital Management source system, the Functional Currency column displays “NA.” Unlike PeopleSoft Enterprise Financial Management source systems, when ERP Integrator human resource data loads occur, there is no break up of amount by functional, entered, or translated currencies.

7 In **Functional Currency**, specify the currency of the location.


8 Click **Save**.

9 Perform these optional tasks:

- To edit an existing location, select the location you want to modify, then make changes as necessary. Then, click **Save**.
- To delete a location, click **Delete**.



When a location is deleted, the location is removed from all other ERP Integrator screens, such as Metadata, Data Load, and Data write-back.

**Tip:** To filter by the location name, ensure that the filter row is displaying above the column headers. (Use the  to toggle the filter row.) Then, enter the text to filter.

## Defining Metadata Rules

### Subtopics

- [Defining the Metadata Rule Details](#)
- [Managing Metadata Rules](#)

You can create metadata rules once and rerun the rules, as necessary.

For general ledger source systems:

- For Fusion and E-Business Suite source systems, the chart of accounts is the collection of general ledger segments with various value sets, which are mapped to the dimensions to pull the dimension members and hierarchies.
- Similarly for PeopleSoft Enterprise Financial Management, the chartfields are mapped to the dimensions to pull the dimension members and hierarchies.

**Note:** Metadata rules are not used in ERP Integrator integrations with human resource source systems.

Before you define metadata rules:

- Ensure that your source system data does not include special characters. Special characters are not supported in Financial Management target applications.
- Register your source systems and target applications for use with ERP Integrator. See [“Registering ERP Source Systems” on page 44](#) and [“Registering Target Applications” on page 57](#).
- Select the source accounting entities in the registered source system. See [“Selecting Source Accounting Entities” on page 62](#).
- Define the import format. See [“Working with Import Formats” on page 63](#).
- Define the location. See [“Defining Locations” on page 72](#).

**Note:** Performance Management Architect supports Shared and Local dimensions. ERP Integrator also supports Shared and Local dimensions in applications.

At a high level, follow this process to define metadata rules:

1. Create the metadata rule.

2. Select the dimension.
3. Define the mapping details and determine how you want to handle intercompany segments. See [“Defining the Metadata Rule Details” on page 74.](#)
4. **Optional:** Define the segment hierarchies or chartfield trees to be extracted.
5. Save and run the metadata rule.
6. **Optional:** Check the status of the rule. See [“Viewing Process Details” on page 84.](#)

➤ To create metadata rules:

- 1 **In the Tasks pane, select Metadata.**

**Note:** You cannot create more than one metadata rule for the same ledger or business unit for each target application.

- 2 Click  to select the **Location**.

- 3 **Select the location, and then click OK.**

**Note:** A location can be created without an accounting entity. This feature allows users to load data from multiple accounting entities from a single location. In this case, accounting entities are associated with the data rules. If no accounting entity is specified for the location, the accounting entity from the import format is used.

- 4 **Click Add.**

- 5 **Select the Dimension.**

The dimensions listed are based on the import format.

- 6 **Define the mapping details for each dimension you select.** See [“Defining the Metadata Rule Details” on page 74.](#)

- 7 **Repeat steps 4-6 for each dimension.**

- 8 **Click Save.**

## Defining the Metadata Rule Details

Single segment or chartfield mappings define a simple one-to-one mapping between source and target dimension members. When you create single segment or chartfield mappings, you can optionally define:

- A member prefix
- Segment hierarchies to be extracted from the source system
- Orphan member handling

➤ To define the mapping details:

- 1 **Optional:** Enter the member prefix.

The member prefix is inserted before the source member code. Although optional, it is important to prefix the segment values with a prefix defined for the corresponding Performance Management Architect or Classic Financial Management or Planning dimension if those members do not exist in the target application.


**Note:** When you perform the next steps to define the hierarchy region starting parent, consider that Planning, Essbase, and Financial Management do not allow members to roll up to the parent under the same root. When extracting, specify hierarchies where every node has only one parent. Fusion and E-Business Suite supports instances where a segment value can roll up to two parents.

## 2 For Fusion and E-Business Suite source systems:

- a. For Planning and Essbase applications—Account dimension mapping details: Select the **Time Balance Property for Balance Sheet Accounts** and **Time Balance Property for Income Statement Accounts**.

The time balance property specifies how the value of summary time periods is calculated. If set to Flow, it is an aggregate of all values for a summary time period as a period total. If set to Balance, it is an ending value in a summary time period as the period total.

- b. Click **Add** to define the hierarchy region starting parent.

- c. Click  or enter the Starting Parent.

- d. Select **Base Hierarchy**.

The base hierarchy indicates the part of the hierarchy that is the base and that other parts of the hierarchy that share the same parent are shared. All nonshared members of base hierarchies have the “Store Data” property set. However, shared members cannot be set to “Store Data.”

- e. Select a prefix or suffix for the hierarchy, and then, enter a prefix/suffix value.


The parent prefix is applied only to the parent. To enable alternate rollup hierarchies, the Prefix/Suffix value applies only to parent members. Parent members cannot be shared and must have a unique name. In addition, parent members do not store data.


## 3 For PeopleSoft source systems:

- a. For Planning and Essbase applications—Account dimension mapping details: Select the **Time Balance Property for Balance Sheet Accounts** and **Time Balance Property for Income Statement Accounts**.

The time balance property specifies how the value of summary time periods is calculated. If set to Flow, it is an aggregate of all values for a summary time period as a period total. If set to Balance, it is an ending value in a summary time period as the period total.

- b. Click **Add** to define the hierarchy region tree.

- c. Click  or enter the tree name.

- d. Click  or enter the effective start date.

- e. Select **Base Hierarchy**.

The base hierarchy indicates the part of the hierarchy that is the base and that other parts of the hierarchy that share the same parent are shared. All non-shared members of base hierarchies have the “Store Data” property set. However, shared members cannot be set to “Store Data.”

- f. Select a prefix or suffix for the hierarchy. Then, enter a prefix/suffix value.

The parent prefix is applied only to the parent. To enable alternate rollup hierarchies, the Prefix/Suffix value applies only to parent members. Parent members cannot be shared and must have a unique name. In addition, parent members do not store data.

**4 For Planning applications only:** Select the Plan Type for Accounting and Entity dimensions.

**5 For Financial Management applications only:** If you are mapping an Entity dimension enter the following details for intercompany segments, depending on your source system:

- Intercompany Segment Value
- For Intercompany Default, select **Yes** or **No**

In the scenario where the Intercompany segment is defined, the Intercompany transactions are identified based on the Intercompany segment. Typically, only one set of natural accounts is required for accounting the receivable and payable among the Intercompanies.

In the scenario where there is no Intercompany segment, the Intercompany transactions should be identified based explicitly on the natural account segment. Typically, there should be all combinations of receivable and payable accounts among the transacting partner companies. Only with these natural accounts are the receivable and payable position between the Intercompanies known.

**6 Click Save.**

## Managing Metadata Rules

You can perform the following tasks to manage your metadata rules:


- Edit metadata rules—See [“Editing Metadata Rules” on page 76](#).
- Run metadata rules—See [“Running Metadata Rules” on page 77](#).
- Check the metadata rule process details—See [“Deleting Metadata Rules” on page 77](#).
- Delete dimension mappings or hierarchies in metadata rules—See [“Checking the Metadata Rule Status” on page 77](#).

### Editing Metadata Rules

If the metadata rule is not in the process of running, you can modify the rule.

➤ To edit metadata rules:


- 1 In the Tasks pane, select Metadata.**

- 2 Enter the **Location Name** or click  to select the location.
- 3 Add or modify the dimension mappings or mapping details, as necessary.
- 4 Click **Save**.

## Running Metadata Rules

You can run the metadata rule to load updates and push the metadata into the target application. All submitted rules are processed by Oracle Data Integrator.

► To submit the metadata rule:

- 1 In the Tasks pane, select **Metadata**.
- 2 Enter the **Location Name** or click  to select the location.
- 3 Select the metadata rule.
- 4 Click **Execute** and then click **OK**.

## Checking the Metadata Rule Status


After you run a metadata rule, you can check the status on the Process Details page. You can click the Status icon on the Metadata page to link to the Process Details page and view the process details. See [“Viewing Process Details” on page 84](#).

**Tip:** You can also check the status of the rule in Oracle Data Integrator.

## Deleting Metadata Rules

You can delete dimension mappings or hierarchies in the mapping details for metadata rules created in ERP Integrator.

► To delete dimension mappings or hierarchies in a metadata rule:

- 1 In the Tasks pane, select **Metadata**.
- 2 Enter the **Location Name** or click  to select the location.
- 3 Select the row in the Dimension Mappings or Hierarchy Region area.
- 4 Click **Delete**.

# Defining Period Mappings

## Subtopics

- [Global Mappings](#)
- [Application Mappings](#)
- [Source Mappings](#)

You have the flexibility to use various kinds of calendars (for example, monthly, weekly, or daily) based on your business and statutory requirements. In your EPM system, you can also use different calendars, based on your application requirements (for example, different levels of periods). Because ERP Integrator extracts the ERP source system data to the target EPM application, the mapping relationship should be established by defining a period mapping between the source ERP source system periods and the target EPM application periods.

E-Business Suite and PeopleSoft calendars have these important elements:

- **Calendar**—Identifier for a calendar
- **Start Date**—Start date of the period
- **End Date**—End date of the period

Before you can define data rules, define the period mappings. Period mappings define the mapping between ERP calendars and the EPM application year or periods. You have three options to define period mappings:

- **Global Mapping**—You define a global mapping in cases where you do not have many target applications getting data from multiple source systems with different types of source calendars. Use a global mapping to ensure that various periods are accommodated in the individual mapping. As a first step, define a global mapping.
- **Application Mapping**—If you have multiple target applications, getting data from various source systems with complex period types, you can create application mappings in addition to global mappings. When you define an application mapping, you can modify the Target Period Month as necessary; for example, if in Financial Management the name is January and in Planning the name is JAN.
- **Source Period Mapping**—Specifies source period mapping for adapter based integrations.

## Global Mapping—Sample Monthly Period Mapping

The following table shows how a monthly calendar from an ERP source system would map to monthly periods in an EPM application.

**Note:** A global mapping should be defined at the most granular level. For example, if you have a monthly calendar and a weekly calendar, define your global mapping at the lowest level of granularity. In this case, the period keys would be at the week level, and you would map weeks to months. You can create application mappings for the higher-level periods.

**Table 8** Sample Monthly Period Mapping

Period Key	Prior Period Key	Period Name	Target Period Month	Target Period Quarter	Target Period Year	Target Period Day	Year Target
Jan 1 2010	Dec 1 2009	January 1, 2010	Jan	Q1			FY10
Feb 1 2010	Jan 1 2010	February 1, 2010	Feb	Q1			FY10
Mar 1 2010	Feb 1 2010	March 1, 2010	Mar	Q1			FY10
April 1 2010	March 1 2010	April 1, 2010	Apr	Q2			FY10
May 1 2010	April 1 2010	May 1, 2010	May	Q2			FY10

### Global Mapping—Sample Weekly Period Mapping

The following table shows how a weekly calendar from an ERP source system would map to monthly periods in the EPM application.

**Table 9** Sample Weekly Period Mapping

Period Key	Prior Period Key	Period Name	Target Period Month	Target Period Quarter	Target Period Year	Target Period Day	Year Target
Jan 26 2009	Jan 19 2009	January 26, 2010	Jan	Q1			FY09
Feb 2 2009	Jan 26 2009	February 2, 2010	Feb	Q1			FY09
Feb 9 2009	Feb 2 2009	February 9, 2010	Feb	Q1			FY09
Feb 16 2009	Feb 9 2009	February 16, 2010	Feb	Q1			FY09

### Application Mapping—Sample Target Application Sourcing from a Monthly Calendar Source

The following table shows a sample where the target application is sourcing from a monthly calendar. This mapping would be performed on the Application Mapping tab.

**Table 10** Sample Application Mapping—Target Application #1 with a Monthly Calendar Source

Period Key	Target Period Month	Target Period Quarter	Target Period Year	Target Period Day	Year Target
Jan 1 2009	Jan	Q1			FY09
Feb 1 2009	Feb	Q1			FY09
Mar 1 2009	Mar	Q1			FY09

### Application Mapping—Sample Target Application #2 Sourcing from a Weekly Calendar Source

The following table shows a sample where the target application is sourcing from a weekly calendar. This mapping would be performed on the Application Mapping tab.

**Table 11** Sample Application Mapping—Target Application #2 with a Weekly Calendar Source

Period Key	Target Period Month	Target Period Quarter	Target Period Year	Target Period Day	Year Target
Jan 26 2009	Jan	Q1			FY09
Feb 2 2009	Feb	Q1			FY09
Feb 9 2009	Feb	Q1			FY09
Feb 16 2009	Feb	Q1			FY09

**Note:** To avoid double counting on Income Statement accounts, be sure not to define a mapping where the adjustment period of one year goes into the period of the next fiscal year.

### Adjustment Period Mapping—Mapping the Period Key to the Adjustment Period

**Table 12** Sample Adjustment Period Mapping—Mapping the period to the adjustment period

Period Key	Calendar	Adjustment Period	Description
Dec-2003	Accounting 13	13-03	Adj Period for 2003
Dec-2004	Accounting 13	13-04	Adj Period for 2004
Dec-2005	Accounting 13	13-05	Adj Period for 2005
Dec-2007	Accounting 13	13-07	Adj Period for 2007

**Note:** If the source is PeopleSoft General Ledger, set the adjustment period mapping in conjunction with the related accounting year.

## Global Mappings

You can define one global mapping to map various periods to the individual mapping.

- To define a global mapping:
  - 1 In the Tasks pane, under **Setup**, select **Period Mapping**.  
By default, the Global Mapping tab is automatically displayed.
  - 2 Click **Add**.
  - 3 Select the **Period Key**.
  - 4 Select the **Prior Period Key**.
  - 5 Enter the following:
    - a. Period Name; for example, August 2005.
    - b. Target Period Month; for example, August.



- c. Target Period Quarter
- d. Target Period Year
- e. Target Period Day
- f. Year Target

**Note:** Period dimension members in Performance Management Architect that have the "Data Storage" property set to "Label Only," "Dynamic Calc," or "DynamicCalcandStore," are not displayed.

**6 Click Save.**

## Application Mappings

You can define application mappings in cases where you want to define a special period mapping for a specific target application. The mappings that you create here apply to an individual target application.

► To create period mappings for an application:

- 1 In the Tasks pane, select **Period Mapping**.**
- 2 Select **Application Mapping**.**
- 3 Select the **Target Application**.**
- 4 Click **Add**.**
- 5 Select the **Period Key**.**
- 6 Enter the following:**
  - a. Target Period Month
  - b. Target Period Quarter
  - c. Target Period Year
  - d. Target Period Day
  - e. Year Target
- 7 Click **Save**.**
- 8 Click **Execute** to run the rule.**

## Source Mappings

Source mappings include explicit and adjustment period mappings. You can create explicit period mappings to ensure that the ERP Integrator periods map correctly to the source system calendar periods. An adjustment period mapping is used only when you select the "Include Adjustment Periods" option when creating the data load rule.

The Source Mapping tab consists of two areas:

- Master—Selects the source system and mapping type
- Grid—Defines the period mapping. The mapping can be defined only for periods defined on the Global Mapping. New ERP Integrator periods cannot be created on this tab.

For (EBS, Fusion and PeoplesSoft) source systems, you can select explicit or adjustment systems. For all other systems, you can select only an explicit mapping.

**Note:** In Data Rules, you can choose between Default period mapping or Explicit period mapping. If you choose period mapping, then source periods are mapped based on the period key and prior period.

➤ To create explicit period mappings:

- 1 In the Tasks pane, select **Period Mapping**.
- 2 Select **Source Mapping**.
- 3 In the \* **Source Mapping** drop-down, select the source system.
- 4 In the **Mapping Type** drop-down, select **Explicit**.

For all other systems (for example, EBS or Fusion), you can select explicit and adjustment.

SAP/ source systems user must define Explicit period mappings


- 5 Click **Add**.
- 6 Enter the source system **Period Name**, and then click **OK**.
- 7 Enter the source system **Period Key**, and then click **OK**.
- 8 Enter the source system **Calendar**, and then click **OK**.
- 9 Enter the source system **GL Period**, and then click **OK**.


The GL Period Number is prefilled automatically based on the Period Name.


- 10 Enter the source system **GL Name**, and then click **OK**.
- 11 **Optional:** Enter a description for the mapping.
- 12 Click **Save**.

➤ To create source period mappings:

- 1 In the Tasks pane, select **Period Mapping**.
- 2 Select **Source Mapping**.
- 3 In the \* **Source Mapping** drop-down, select the source system.
- 4 Click **Add**.

5 Click  to select the source system **Period Key**, and then click **OK**.

6 Click  to select the source system **Calendar**, and then click **OK**.

- 7 Click  to select the source system **Adjustment Period**, and then click **OK**.
- 8 **For PeopleSoft source systems only:** In **GL Period Year**, enter the general ledger period year.  

The general ledger period year is required for PeopleSoft source systems, since PeopleSoft Adjustment Periods definitions do not include a Year value. To properly map adjustment period data from PeopleSoft, you must define the source accounting period and fiscal year intersections for all PeopleSoft adjustment periods.
- 9 **Optional:** Enter a description for the mapping.
- 10 Click **Save**.

**Tip:** To delete a mapping, select the mapping, then click **Delete**.

## Defining Category Mappings

### Subtopics

- [Global Mappings](#)
- [Application Mappings](#)

You define category mappings for categorizing and mapping source system data to a specific target EPM Scenario dimension member. For example, in a Financial Management application, you may have a Scenario dimension member called “Actuals” for storing actual balances from a source system. In a Planning application, the same source system data is stored using the Scenario dimension member “Current.” In ERP Integrator, you can create one category mapping to give both one name to represent their respective scenarios.

## Global Mappings

You can define one global mapping to map various Scenario dimensions to the individual mapping.

➤ To define a global category mapping:

- 1 In the Tasks pane, select **Category Mapping**.
- 2 Select **Global Mapping**.
- 3 Click **Add**.
- 4 Enter the category name.
- 5 Enter the category description.
- 6 Select the category frequency.

The category frequency indicates the frequency defined in the period mapping. For example, Daily, Monthly, Quarterly, or Yearly.

- 7 Enter the target category.

The target category is the Scenario dimension in the application.

8 Click **Save**.

9 Perform these optional tasks:

- To edit an existing mapping, select the mapping you want to modify, then make changes as necessary. Then, click **Save**.
- To delete a mapping, click **Delete**.

## Application Mappings

Unlike global mappings, application mappings can be defined for a specific target application.

► To define application category mappings:

1 In the Tasks pane, select **Category Mapping**.

2 Select **Application Mapping**.

3 Select the **Target Application**.

4 Click **Add**.

5 Select the category.

6 Enter the target category or click  to search for a target category.

7 Click **Save**.

8 Perform these optional tasks:

- To edit an existing mapping, select the mapping you want to modify, then make changes as necessary. Then, click **Save**.
- To delete a mapping, click **Delete**.

## Viewing Process Details

You use the Process Details page to view submitted rule status and logs.

► To view data rule process details:

1 In the Tasks pane, select **Process Details**.

The Process Details page is displayed, showing processes for all source systems. The following columns are displayed for each process:

- **Status**—Displays a visual indicator for the status of the process. You can rest the mouse pointer over the icon to view a Screen Tip.
- **Process ID**—An automatically generated identification number.
- **Log**—Click **Show** to display the log file.
- **Location**—Displays the location name.


- **Process Name**—The type of process. Types of processes include:
  - **Data Load**—Initiated when you run a data load rule.
  - **Metadata Load**—Initiated when you run a metadata load rule.
  - **HR Load**—Initiated when you run an HR data load rule.
  - **Data Write-Back**—Initiated when you run a data write-back rule.
  - **Purge Process**—Initiated when you remove an artifact, such as a target application or source system.
  - **Initialize Source System**—Initiated when you initialize a source system.
- **Rule Name**—Name of the rule.
- **Source System**—Name of the source system.
- **Accounting Entity**—Name of the source accounting entity.
- **Target Application**—Name of the target application.
- **ODI Session Number**— The session number in Oracle Data Integrator. You can use this to look up a session in Oracle Data Integrator.
- **Job ID**—The Performance Management Architect job ID.
- **Process By**—The user ID that initiated the process.
- **Reset Status**—Resets the status to failed if a process continues to stay in a running status for a long period of time.

## 2 Select a process to display the details.

The following details are displayed:

- **Status**—For each process step, the status is displayed. You can troubleshoot a problem by viewing at which point the process failed.
- **Process Step**—Displays the steps in the process.
- **Process Start Time**—The time that the process step started.
- **Process End Time**—The time the process step ended.
- **Log**—If available, you can click Show to display the log contents.

## 3 **Optional:** To filter the rows that display, ensure that the filter row appears above the column headers.

(Use the  to toggle the filter row.) Then, enter the text to filter.

You can filter:

- Status—Enter SUCCESS, FAILED, or WARNING.
- Process ID
- Location
- Rule Name
- Source System
- Accounting Entity

- Target Application

**Note:** When entering text to filter, the text or partial text you enter is case sensitive. The case must match exactly. For example, to find all target applications prefixed with “HR,” you cannot enter “Hr” or “hr.” For additional information on filtering, see [“ERP Integrator User Interface Elements” on page 26.](#)

# 5

## Data Load

### In This Chapter

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Defining Data Load Rules to Extract Data .....	95
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You define data load rules to extract data from your ERP source system. You begin by creating member mappings.

## Creating Data Load Mappings

### Subtopics

- [Creating Mappings Using the Explicit Method](#)
- [Creating Mappings Using the Between Method](#)
- [Creating Mappings Using the Like Method](#)
- [Using Special Characters in the Source Value Expression for Like Mappings](#)
- [Using Special Characters in the Target Value Expression](#)
- [Creating Mappings Using Multi-Dimensions](#)
- [Ignoring Member Mappings](#)
- [Importing Member Mappings](#)
- [Exporting Member Mappings](#)

Member mappings are used to derive the target members for each dimension based on source value. Member mappings are referenced during the data load, enabling ERP Integrator to determine how to dimensionalize the data that is loaded to the target dimension. They define relationships between source dimension members and target dimension members within a single dimension. You must create a member mapping for each target dimension.

There are four types of member mappings:

- **Explicit**—The source value is matched exactly and replaced with the target value.
- **Between**—The range of source values is replaced with one target value.
- **Like**—The string in the source value is matched and replaced with the target value.

- **Multi-Dimension**—Target value is assigned for a combination of source segment / chartfields.

The following table is an example of a member mapping, where three segment members, Cash-101, 102, and 103 map to one EPM member, Cash.

Segment / Chartfield Member	EPM Member
Cash-101	Cash
Cash-102	Cash
Cash-103	Cash
Expense-1	Expense
Expense-2	Expense

You can use special characters for the source and target values. See [“Using Special Characters in the Source Value Expression for Like Mappings” on page 90](#) and [“Using Special Characters in the Target Value Expression” on page 92](#).

➤ To define member mappings:

- 1 In the Tasks pane, select **Member Mapping**.
- 2 Select the **Location**.
- 3 Select the **Dimension and Type**.

**Note:** If you have defined a metadata mapping for the dimension, ERP Integrator automatically creates a “Like” member mapping. If you entered a member prefix, the same member prefix is automatically entered as the target value in the member mapping. “DEFAULT” displays in the rule name and description field for system-generated mappings. When data is extracted, user-defined mappings are extracted first, and then system generated mappings.

Type options:

- **Explicit**—The source value is matched exactly and replaced with the target value. For example, the source value, “ABC,” is replaced with the target value, “123.” See [“Creating Mappings Using the Explicit Method” on page 89](#).
- **Between**—The range of source values are replaced with one target value. For example, a range from “001” to “010” is replaced as one value: “999.” See [“Creating Mappings Using the Between Method” on page 89](#).
- **Like**—The string in the source value is matched and replaced with the target value. For example, the source value, “Department” is replaced with the target value, “Cost CenterA.” See [“Creating Mappings Using the Like Method” on page 90](#).



- **Multi-Dimension**—For the specified combination of multiple segment / chartfield values a target value is assigned See [“Creating Mappings Using Multi-Dimensions” on page 93](#).

For example in the case where Source value Entity-001,002 Department-ABC, XYZ Account-1222, 1333, for this source value combination, the target value assigned for Account Dimension is 1200.

When processing the source values for transformations, multiple mappings may be applicable to a specific source value. The order of precedence is Explicit, Multi-Dimension, Between, and Like. Within Between and Like types, mappings can overlap. The rule name determines precedence within a mapping type. The rules are processed in alphabetical order of the rule name within a mapping type.


**Tip:** You can click **Refresh Values** to refresh the list of segment or chartfield values that appear in the drop-down list from the source system. This is especially helpful when creating “Explicit” mappings.

## Creating Mappings Using the Explicit Method

“Explicit” mappings enable you enter a source value to be matched exactly and replaced with a target value. Use an explicit mapping to explicitly map the members from the EPM target application to specific members in the source ledger. For example, if you have Account100 in your EPM target application, you can map it to Account1, allowing you to explicitly define how to dimensionalize the data file that is loaded into the target application.


➤ To create an “explicit” mapping:

1 **Click Add.**

2 **Enter the Source Value** or click  to select a value.

The source value is the ERP segment value. See [“Using Special Characters in the Source Value Expression for Like Mappings” on page 90](#).

3 **Optional:** Enter a description.

4 **Enter the Target Value** or click  to select a member.

The target value is the EPM dimension member name. See [“Using Special Characters in the Target Value Expression” on page 92](#).

5 **Click Save.**


## Creating Mappings Using the Between Method

“Between” mappings enable you to enter a range of source values, separated with a comma. The range of source values are replaced with one target value. Use a between mapping if you want to consolidate several accounts in your plan to a single account in the ledger.

► To create a “between” mapping:

- 1 **Click Add.**
- 2 **Enter source values in the Source Value range.**

The source value is the ERP segment value. Separate source values with a comma. For example 100, 199. “Between” mappings do not support special characters, such as an asterisk.

- 3 **Enter the Target Value or click  to select a member.**

The target value is the EPM dimension member name. See [“Using Special Characters in the Target Value Expression” on page 92](#).

- 4 **Enter the Rule Name.**
- 5 **Optional:** Enter a description.
- 6 **Click Save.**


## Creating Mappings Using the Like Method

“Like” mappings enable you to enter a string in the source value that will be matched and replaced with the target value.

► To create a “like” mapping:

- 1 **Click Add.**
- 2 **Enter the Source Value string.**

The source value is the ERP segment value. “Like” source write-back mappings support special characters. See [“Using Special Characters in the Source Value Expression for Like Mappings” on page 90](#).

- 3 **Select the Target Value or click  to select a member.**

The target value is the EPM dimension member name. “Like” target write-back mappings support special characters. See [“Using Special Characters in the Target Value Expression” on page 92](#).

- 4 **Enter the Rule Name.**
- 5 **Optional:** Enter a description.
- 6 **Click Save.**

## Using Special Characters in the Source Value Expression for Like Mappings

The Source and Target Value expressions can have one or more special characters. Special characters are supported for “Like” mappings only.

- **Asterisk (\*)**

An asterisk (\*) represents the source value. The asterisk (\*) can be prefixed or suffixed by one or more characters, which filters the source value by that prefix or suffix. The wild card takes whatever is present in the source and puts it in the target column, usually adding a prefix.

- **Question Mark (?)**

The question mark (?) strips a single character from the source value. You can use one or more question marks (?) in the expression. You can also use question marks in combination with other expressions. For example: A?? (finds members that start with A and have any two characters following and selects the members or strips off the two characters. You see these examples in the table below.)

- **<1>, <2>, <3>, <4>, <5>**

Processes rows that have concatenated values and extracts the corresponding segment value (identified by the segment number). Each segment is separated by an underscore character (\_). Only one segment value can be extracted in a source value expression.

**Note:** <1>, <2>, <3>, <4>, <5> can be used with a question mark (?) but cannot be used with an asterisk (\*).

- **<BLANK>**

Processes only rows that contain the blank character (space). This is true for both single and concatenated segment or chartfield dimension mappings.

**Note:** <BLANK> cannot be used with other source expression or characters.

**Table 13** Examples of Expressions Using Special Characters

Special Character(s) Used	Mapping Type	Source Value	Target Value	Result	Notes
*	Data Load	*	1000	1000 returns 1000 WXYZ returns 1000	In this example, ERP Integrator processes all rows and overrides the source value with a default value of 1000. In this expression, WXYZ would also return 1000. Because you entered an asterisk for the source value it would replace any source value with the target value of 1000.
*	Data Load working off Stripping	*	*	1000 returns 1000 WXYZ returns WXYZ	In this example, ERP Integrator process all rows and replaces the source value as is.
*	Stripping	*	A	101 returns A101	Processes only source values starting with the letter "A."
*	Stripping	*_DUP	*	1000_DUP returns 1000	Processes only source values ending with "_DUP."

Special Character(s) Used	Mapping Type	Source Value	Target Value	Result	Notes
?	Stripping	?*	*	A1000 returns 1000 B2000 returns 2000	This result processes only source values of one or more characters in length.
?	Stripping	*????	*	1000_DUP returns 1000 A1000 returns A	This result processes only source values of four or more characters in length.
<1>, <2>, <3>, <4>, <5>	Data Load	<1>	*	01_420 returns 01	
<1>, <2>, <3>, <4>, <5>	Data Load	<2>	*	01_420 returns 420	
<1>, <2>, <3>, <4>, <5>	Data Load	<3>	*	01_420_AB_CC1_001 returns AB	
<1>, <2>, <3>, <4>, <5>	Stripping	?<1>	*	A01_420 returns 01	
<BLANK>	Data Load	<BLANK>	[None]	' ' returns [None] '01_ ' returns [None]	Single quotes are shown for illustration only.

## Using Special Characters in the Target Value Expression

You can use one special character in the target expression: an asterisk (\*). You can prefix or suffix any number of characters to the asterisk (\*) character. When you run the rule, the asterisk (\*) character is replaced by the resulting source value (which may or may not have its own source expression), and will be concatenated to any prefix or suffix you may have specified in the target expression. For example:

**Target Value:**

A\*

**Result:**

1000 = A1000

**Target Value:**

\*\_DUP

**Result:**

1000 = 1000\_DUP

**Note:** <BLANK> is supported in the target value expression in data write-back mappings and can be used in all mapping types (Like, Between, and Explicit).

## Creating Mappings Using Multi-Dimensions

You can define member mapping based on source values of multiple dimension. For example the mapping for Account dimension can be based on source values of Entity, Product, and Project. This allows for the derivation of target values based on the combination of source values. In addition, Lookup dimensions are added to Target Application registration. These dimensions contain source dimension but do not exist in the target application. They provide even more flexibility in creating multi-dimension filters. It is a way to facilitate conditional data loading,

➤ To create mappings using multiple dimensions:

- 1 In the **Dimensions**, drop-down, select the source value.
- 2 in the **Type** drop-down, select **Multi-Dimension**.
- 3 Click **Add**.

The Multi-Dimension screen is displayed.

- 4 Enter the **Rule Name**.

- 5 Enter the **Target Value** or click  to select a target value.

The target value is the EPM dimension member name.

- 6 Enter a description.
- 7 Click **Save**.

## Ignoring Member Mappings

You can ignore source values using the IGNORE Mappings feature.

➤ To ignore member mappings:

- 1 From the task bar, select **Data Load Mapping**.

The Data Load Mapping screen is displayed.

- 2 Select a source value, and in its **Target Value**, type **IGNORE**.

## Importing Member Mappings

You can import member mappings from a selected .CSV and .TXT. This feature enables you to create new mappings in a text file and import them. Import Member Mappings supports merge or replace modes, along with validate or no validate options for target members.

➤ To import member mappings:

- 1 From the **Data Load Mapping** task bar, select **Import**.

The Import drop-down is displayed.

- 2 From the **Import** drop-down, select either **Current Dimension** or **All Dimensions**.

The Select file to import screen is displayed.

- 3 **Navigate to the file to import and click **OK**.**
- 4 **Optional: If necessary, click **Upload** to navigate to the file to import and then click **OK**.**

You are prompted to open or save the file.

In the member mapping import files ERP Integrator supports one of the following characters as column separator:

- ,
- |
- ;

The order of the columns are as follows: Source Value, Target Value, Rule Name, Rule Description

The mapping details are as follows:

**Table 14** Supported Column Separators

Column	Mapping
100, Cash, R1, Explicit Map	Explicit Mapping
100>199, Cash, R2, Between Mapping '	">" indicates its BETWEEN mapping.
1*, Cash, R3, Like Mapping	"*" indicates its LIKE mapping.
#MULTIDIM ACCOUNT=[4*] AND UD3=[000],Cash,R4,Multi Dimension Mapping	"#MULTIDIM" indicates its Multi Dimension Mapping. The actual column name used for the mapping is the Data Table Column Name. The easiest way to create a Multi dimension mapping would be to create a mapping through the UI and export it to the file. You can then modify the file by additional mappings

## Exporting Member Mappings

You can export member mappings to a selected file.

When exporting member mappings for Planning and Essbase, you can store, add, and subtract data, For Planning only, you can override all data. For Financial Management, you can merge, accumulate and replace data.

► To export member mappings:

- 1 **From the **Data Load Mapping** task bar, select **Export**.**

The Export drop-down is displayed.

- 2 **From the **Export** drop-down, select either **Current Dimension** or **All Dimensions**. The **Select file location** screen is displayed.**

- 3 **Navigate to the file to export and click **OK**.**

- 4 **Optional:** If necessary, click **Upload** and navigate to the file to export and then click **OK**.
- 5 In the **File Name** field, specify the directory to which to export the file.

## Defining Data Load Rules to Extract Data

### Subtopics

- [Creating the Data Load](#)
- [Defining the Data Load Details](#)

After you define member mappings for the data load rule, you can define data load rules for ledgers or business units in your Fusion, E-Business Suite or PeopleSoft Enterprise Financial Management source system. Data load rules are defined for locations that you have defined. Data load rules are specific to:

- locations
- Ledgers for Fusion and E-Business Suite source systems
- Business units for PeopleSoft Enterprise Financial Management source systems

You can create multiple data load rules for a target application so that you can import data from multiple sources into a target application. Use the following high level process to create a data load rule:

1. Create the data load rule. See [“Creating the Data Load ” on page 95](#).
2. Define data load rule details. See [“Defining the Data Load Details” on page 96](#).
3. Execute the data load rule. See [“Running the Data Load ” on page 104](#).


## Creating the Data Load

You create and modify data load rules on the Data Load screen. The Data Load screen has three sections:

- Data Load Summary
- Data Load Detail
- Source Filter

**Note:** Before you create data load rules, ensure that your source system data does not include special characters, which are not supported in Financial Management target applications.

➤ To create data load rules:

- 1 In the **Tasks** pane, under **Data Load**, select **Data Load Rule**.
- 2 Click  to select a location, and then click **OK**.

- 3 From the **Data Load Summary** task bar, click **Add** to create a data load rule.
- 4 Define the data load details. See [“Defining the Data Load Details” on page 96](#).

## Defining the Data Load Details

► To define the data load details:

- 1 Enter the data load rule name.
- 2 Select a **Category**.

The categories listed are those that you created in the ERP Integrator setup. See [“Defining Category Mappings” on page 83](#).

- 3 **Optional:** Enter a description.

4

- 5 In **Accounting Entity**: If the Location has no accounting value, enter the accounting entity.

If the Location was created with an accounting entity, this field is already populated.

- 6 In the **\*Include Adjustment Periods** drop-down select either **yes** or **no** from the drop-down.

Adjustment periods ensure that the ERP Integrator adjustment periods map correctly to the source system adjustment periods.

- 7 In the **\*Period Mapping Type** drop-down, select the period mapping type for each data rule.

Valid options are:

- **Default**—The Data Rule uses the Period Key and Prior Period Key defined in ERP Integrator (or FDM) to determine the Source General Ledger Periods mapped to each ERP Integrator period (or FDM period) included in a Data Rule execution.
- **Explicit**—The Data Rule uses the Explicit period mappings defined in ERP Integrator to determine the Source GL Periods mapped to each ERP Integrator Period (or FDM Period) included in a Data Rule execution. Explicit period mappings allow support of additional GL data sources where periods are not defined by start and end dates.
- **None**—Source period mappings are ignored, thus all imported data rows are mapped to the ERP Integrator period (or FDM period) selected in a Data Rule execution.

- 8 For **Planning applications**, select a **Plan Type**.

- 9 For **Performance Management Architect applications**, in the **Data Synchronization** select the data synchronization for the target application.

If you select “Auto-Create” ERP Integrator creates the data synchronization when the data rule runs.

- 10 In the **\*Include Adjustment Periods** drop-down select either **yes** or **no** from the drop-down.

Adjustment periods ensure that the ERP Integrator adjustment periods map correctly to the source system adjustment periods.

- 11 In **\*Period Mapping Type** drop-down, select the period mapping type for each data rule.



Valid options are:

- **Default**—The Data Rule uses the Period Key and Prior Period Key defined in ERP Integrator (or FDM) to determine the Source General Ledger Periods mapped to each ERP Integrator period (or FDM period) included in a Data Rule execution.
- **Explicit**—The Data Rule uses the Explicit period mappings defined in ERP Integrator to determine the Source GL Periods mapped to each ERP Integrator Period (or FDM Period) included in a Data Rule execution. Explicit period mappings allow support of additional GL data sources where periods are not defined by start and end dates.
- **None**—Source period mappings are ignored, thus all imported data rows are mapped to the ERP Integrator period (or FDM period) selected in a Data Rule execution.

## 12 In Accounting Entity, select the accounting entity from the list of values of the source system.

You can specify the accounting entity on this screen, or when entering location detail. Data Rules in Locations without an Accounting Entity require the user to select an Accounting Entity. This functionality is only applicable to Data Rules in a Location using a Standard Import Format.

The Accounting Entity cannot be modified once the Data Rule has been executed.

## 13 Click Save.

The options to define the data load details differ by source system type:

- For Fusion and E-Business Suite source systems, see [“Defining Source Filter Options for Source Systems” on page 97](#).
- For PeopleSoft Enterprise Financial Management source systems, see [“Defining Source Filter Options for PeopleSoft Enterprise Financial Management Source Systems” on page 99](#).
- For PeopleSoft human resource source systems, you create human resource data load rules. See [Chapter 7, “Human Resource Data Load Rules.”](#)

## Defining Source Filter Options for Source Systems

When defining data load mapping details, you can define the data to extract, including whether or not to extract:

- **The amount type**—Only monetary, statistical, or both, monetary and statistical amounts
- **Zero balance accounts** where the debits and credits for an account total zero
- **Adjustment periods**—Determines whether to extract balances in the adjustment period
- **Standard or Average balances**—Average balances only contain balance sheet data.
- **Source balance type**—Actual, Budget, or Encumbrance

In ERP Integrator you classify the data that you want to transfer with the valid types in the source accounting entity of Actual, Budget, and Encumbrance. Typically, you do not map a segment from the chart of accounts to the Scenario dimension, so you choose a default member as part of the data rule definition. When the data is extracted, it is defined with the Scenario column defined in accordance with the default selected.

You can extract only functional balances, which are stored in the base currency of the selected ledger or business unit. For example, if transactions are entered in multiple currencies, the total of all transaction balances is expressed in the functional currency.

► To define the data load source filter for Fusion and E-Business Suite source systems:

**1 Select the Amount Type:**

- Monetary
- Statistical—The balance selection of entered or functional currency does not apply.
- Monetary and Statistical

**2 In the \*Include Zero Balance drop-down, select whether to include zero balances.**

Select *Yes* to extract zero balances. If you select *No*, accounts with zero balances are not extracted.

**3 Select whether to include adjustment periods.**

**4 Select the Amount for Balance Sheet Accounts and Amount for Income Statement Accounts:**

- **YTD**—Year-to-date account balance, where account balances are accumulated from the beginning of the year to the current period. Typically, balance sheet accounts (assets, liabilities, and equities) are specified with a YTD balance. (The default is YTD.)
- **Periodic**—Account balance for the specific period. Typically, income statement accounts (revenues and expenses) are specified with a periodic balance. (The default is PTD.)

**5 Select the Balance Method:**

- **Standard**—In Oracle General Ledger, accounting transaction balances are stored as-is, also known as standard balances.
- **Average**—Average balances only contain balance sheet data. If you selected Statistical as the amount type, the Balance Method is ignored.

**6 Select the balance type to extract:**

- **Actual**
- **Budget**—If you select the Budget source balance type, click *Add* to select budget types to include in the extraction.
- **Encumbrance**—If you select the Encumbrance source balance type, click *Add* to select encumbrance types to include in the extraction.


**7 Select the segment values to extract.**


If you do not want to extract all data from the source general ledger, filter data by the balancing segments of the source. Options include:

- **All**
- **Selected**

In Oracle E-Business Suite, the balancing segment ensures that at this level, balancing debits equal credits. When you create a data load rule, you can decide whether to extract

the general ledger balances relating to all the members of the balancing segment or for specific members of it.

To select the balancing segment values, click , and then select segment values and click *OK*.

To deselect a value, click , and then in the Select Balancing Segment Values dialog box, clear any values and click *OK*.

## 8 Select the **Beginning, Ending, and Average** exchange rate options.

ERP source systems maintain comprehensive exchange rate information for transaction processing. This information can be used by the target applications by extracting the exchange rates. You can select a beginning, ending, and average rate type from the source system. (The types in the source system may not explicitly define those rates types but are mapped to the rates types in the ERP Integrator interface table.)

**Note:** For Planning applications, exchange rates are loaded only if the “Classic” data load method is selected.

**Note:** You define exchange rate options only if the target application is multi-currency.

## 9 Click **Save**.

## 10 Define the target filter options.

After you define the target filter options, run the data rule. See [“Running the Data Load ” on page 104](#).

## Defining Source Filter Options for PeopleSoft Enterprise Financial Management Source Systems

When defining data load mapping details, you can define the data to extract, including whether to extract the amount type—monetary, statistical, or both monetary and statistical amounts.

You can extract only functional balances, which are stored in the base currency of the selected ledger or business unit. For example, if transactions are entered in multiple currencies, the total of all transaction balances is expressed in the functional currency.

➤ To define the source filter options for PeopleSoft Enterprise Financial Management source systems:

### 1 Select the **Amount Type**:

- Monetary
- Statistical—The balance selection of entered or functional currency does not apply.
- Monetary and Statistical

### 2 Select the **Amount for Balance Sheet Accounts** and **Amount for Income Statement Accounts**:


- **YTD**—Year-to-date account balance, where account balances are accumulated from the beginning of the year to the current period. Typically, balance sheet accounts (assets, liabilities, and equities) are specified with a YTD balance.
- **Periodic**—Account balance for the specific period. Typically, income statement accounts (revenues and expenses) are specified with a periodic balance.

**3 Select the Ledger Group.**

**4 Select the Ledger.**


In PeopleSoft, a business unit may have multiple ledger groups. In this list, ERP Integrator displays only the ledger groups associated with the ledger.

**5 Optional:** To select book code values, click , select book code values, and then click **OK**.

To clear a book code, click . Then, in the Select Book Code dialog box, clear book codes, and then click *OK*.

**6 To select budget values, click , select budget values, and then click **OK**.**

You specify the budget values if the ledger that you selected has the data table, “Ledger\_Budg.”

To deselect budget values, click . Then, in the Select Budget Scenario Values dialog box, clear values, and then click *OK*.

**7 Click **Save**.**

**8 Define target filter options.**

After you define target filter options, run the data rule. See [“Running the Data Load” on page 104](#).

## Defining Source File Options for SAP GL Source Systems

Before executing a data load rule using a SAP source adapter, you are required to have generated the Import Format’s ODI Scenario. Once the ODI Scenario exists in the Execution Repository, you can execute the data load rule any number of times.

► To define the source filter options for a SAP GL source system:

**1 Select the Amount Type.**

Specify *PTD* for Period to Date, or *YTD* for Year to Date balances.

**2 Select the Company Code.**

Specify the company code in four characters or less using alphanumeric characters.

**3 Select the Currency Type.**

Specify *10* for the company code currency, *00* for transaction currency, and *30* for group currency.

**4 Select the Language.**

Specify the language in two characters or less, using uppercase characters. For example, specify “EN” for English.

Refer to the SAP documentation for the language code.

**5 Select the Ledger.**

Specify the ledger in two characters or less using alphanumeric characters.

**6 Select the Record Type.**

Specify *0* for Actual, or *1* for Plan.

**7 Click Save.**

## Defining Source File Options for SAP Profit Center Source Systems

Before executing a data load rule using a SAP source adapter, you are required to have generated the Import Format’s ODI Scenario. Once the ODI Scenario exists in the Execution Repository, you can execute the data load rule any number of times.

► To define the source filter options for a SAP Profit Center source system:

**1 Select the Amount Type.**

Specify *PTD* for Period to Date, or *YTD* for Year to Date balances.

**2 Select the Controlling Area.**

Specify the controlling area in four characters or less using alphanumeric characters.

**3 Select the Currency Type.**

Specify *20* for the Controlling Area currency, *00* for Transaction currency, or *70* for Profit Center currency.

**4 Select the Group Code.**

Specify *0106* for the Profit Center group, or *0109* for the account group.

**5 Select the Language.**

Specify the language in two characters or less, using uppercase characters. For example, specify “EN” for English.

**6 Select the Ledger.**

Specify the ledger in two characters or less using alphanumeric characters. For example, you might enter *8A* in this field.

**7 Select the Quantity**

Specify “Yes” or “No”. If this value is set to “Yes”, then the Currency Type is set to blank. For all other conditions, set this value to “No”.

**8 Select the Record Type.**

Specify *0* for Actual, or *1* for Plan.

**9 Click Save.**

## Defining Source Filter Options for SAP Cost Center Source System

Before executing a data load rule using a SAP source adapter, you are required to have generated the Import Format's ODI Scenario. Once the ODI Scenario exists in the Execution Repository, you can execute the data load rule any number of times.

► To define the source filter options for a SAP source adapter:

**1 In Activity Type, select Yes to load activity type quantities, or No to load monetary balances.**

When the Activity Type is set to YES, the Currency Type should be set to blank and Quantity should be set to NO.

**2 Select the Amount Type.**

Specify *PTD* for Period to Date, or *YTD* for Year to Date balances.

**3 Select the Controlling Area.**

Specify the controlling area in four characters or less using alphanumeric characters.

**4 Select the Currency Type.**

Specify *20* for the Controlling Area currency, *00* for Transaction currency, or *90* for Cost Center currency.

**5 In Flow Check, specify External to load external balances, or Internal to load internal allocations.**

When Flow Check is set to EXTERNAL, the Activity Type and Quantity parameters should be set to NO.

**6 In Group Code, select the applicable group code based on the Flow Check value.**

If the Flow Check is set to "EXTERNAL", then valid group codes are as follow:

- "0101" for cost Center Group
- "0102" for Account group
- blank if no grouping is required

If the Flow Check is set to "INTERNAL", then valid group codes are as follows:

- "0101" for Cost Center Group
- "0102" for Account Group
- "0104" for Statistical Key Figure Group
- "0105" for Activity Type Group

**7 In Include Cost Element Description, select Yes to include the cost element description. Otherwise, select No.**

**8 Select the Language.**

Specify the language in two characters or less, using uppercase characters. For example, specify "EN" for English.

**9 Select the Ledger.**

Specify the ledger in two characters or less using alphanumeric characters. For example, you might enter 8A in this field.

#### 10 Select the Quantity

Specify “Yes” or “No”. If this value is set to “Yes”, then the Currency Type is set to blank. For all other conditions, set this value to “No”.

#### 11 In Value Type, select the type of value.

Planned values can be taken from the COSP table if the value type is set to ‘1’. Actual values can be taken from the COSP table if the value type is set to ‘4’.

#### 12 Click Save.

## Defining Source Filter Options for the Open Interface Adapter

Before executing a Data Rule using open interface adapter, you are required to have generated the Import Format’s ODI Scenario. Once the ODI Scenario exists in the Execution Repository, you can execute the Data Rule any number of times.

➤ To define the source filter options for an open interface adapter:

1 In **Batch Name**, enter the name of the batch used to identify the data in the interface table.

2 In **Record Type**, specify whether to delete data after importing the data by selecting **Y** (for yes) or **N**.

To delete the data, select “Y”. To retain the data, select “N”.

3 Click **Save**.

## Managing the Data Load

### Subtopics

- [Editing the Data Load](#)
- [Running the Data Load](#)
- [Working with a Batch Script](#)
- [Checking the Data Load Rule Status](#)
- [Deleting Data Load Rules](#)


You can perform the following tasks to manage your data rules:

- Edit data load rules—See [“Editing the Data Load ”](#) on page 104.
- Run data load rules—See [“Running the Data Load ”](#) on page 104.
- Delete data load rules—See [“Deleting Data Load Rules”](#) on page 109.
- View data load rules before executing them—See [“Using the Data Load Workbench”](#) on page 109.
- Check the data rule process details—See [“Viewing Process Details”](#) on page 84.

## Editing the Data Load

If the data load rule is not in the process of running, you can modify rule details.

► To edit data rules:

- 1 In the Tasks pane, under **Data Load**, select **Data Load Rule**.
- 2 Enter the **Location Name** or click  to select the location.
- 3 Select the data load rule.
- 4 Modify any of the data load rule details, as necessary.

For information on source filter options, see [“Defining the Data Load Details” on page 96](#).

- 5 Click **Save**.

## Running the Data Load

You can run the data load rule to load updates and push the data into the target application. All submitted rules are processed by Oracle Data Integrator. When you submit a data load rule, you specify the data extract options.

Data Load Rules can be executed by selecting one of the methods below:

- Execute command on the Data Load screen.
- Import Source option in the Data Load Workbench option. See [“Importing from Source” on page 116](#).
- Running a Batch Script. See [“Working with a Batch Script” on page 106](#).

When a data load rule is run, it loads the data and a drill region is created to allow users to drill through to the source data.

When you run a data load rule, you have several options.

- **Import from Source**—ERP Integrator imports the data from the source system, performs the necessary transformations, and exports the data to the ERP Integrator staging table.

Select this option only if:

- You are running a data load rule for the first time.
- Your data in the source system changed. For example, if you reviewed the data in the staging table after the export, and it was necessary to modify data in the source system.

In many cases, source system data may not change after you import the data from the source the first time. Therefore, it is not necessary to keep importing the data if it has not changed.

- **Export to Target**—Exports the data to the target application.


Select this option after you have reviewed the data in the staging table and are sure you want to export it to the target application.



**Note:** Select both options only in cases where the data has changed in the source system *and* you want to export the data directly to the target application.

► To submit the data load rule:

**1 In the Tasks pane, select Data Load.**

**2 Enter the Location Name or click  to select the location.**

**3 Select the data load rule.**

**4 Click Execute.**

When the data rule is run for Financial Management target applications, the Exchange Rates from the source are populated only up to the ERP Integrator interface table AIF\_HS\_EXCHANGE\_RATES. The Core Exchange Rates table in Financial Management are not updated.

**5 To load data from the source system: Select Import from Source, and then select the Start Period and End Period.**

**Tip:** You can use a utility outside of ERP Integrator to view the data in the staging table. After you review the exported data, you can return to ERP Integrator, make modifications, and run the rule again. If you are sure that the information in the staging table is what you want to export to the target application, you can run the rule again and select “Export to Target.” For information on staging tables, see [“Staging Tables Used for Import from Source” on page 157.](#)

**6 To export data to the target application: Select Export to Target.**

ERP Integrator transfers the data from the staging table to the target application.

**7 Optional: Select Include Exchange Rates.**

**8 Select the execution mode to extract data all at once for an entire period or incrementally during the period.**

The two data extract types:

- **Snapshot**—Extracts everything for the selected source set for an entire period
- **Incremental**—Extracts those records that were added after the prior data extract
- **Full Refresh**—Performs a clean extraction from the source system, thereby clearing any existing data rows in the appropriate ERP Integrator staging tables for a given source Ledger (or Business Unit) and source period.

**Note:** The execution mode options (Snapshot, Incremental and Full Refresh) are only applicable to Data Rules in a Location using a Standard Import Format. Data Rules in a Location with a Source Adapter Import format always perform a full data extraction (similar to Full Refresh) directly into the TDATASEG\_T table.

**9 Click Run.**

After you click Run, the rule is locked from any updates to ensure that the drill through path is intact. To check the status of the rule, see [“Checking the Data Load Rule Status” on page 108](#).

**Note:** After the rule successfully runs, you can view the data in the ERP Integrator staging table. See [“ERP Integrator Staging Tables” on page 157](#).

**Note:** When running a data load rule for a Performance Management Architect application, a data interface table definition and data synchronization is automatically created. The interface table mapping is named `DITD_<location>`, and the data synchronization name is the same as the location.

## Working with a Batch Script

ERP Integrator provides a set of Windows batch / UNIX shell scripts that allow users to execute the data load rules from a command line or schedule loads from any scheduler without writing Java code. Batch scripts can be invoked from the command line. In turn, scripts call the data load and metadata load API in the ERP Integrator application server that execute the rules using the normal process used in data rule and workbench.

Using a batch script to run data load rules includes:

- Setting up the batch script. See [“Setting up the Batch Script” on page 106](#).
- Executing the batch script for data load rules. See [“Executing the Batch Script for Data Load Rules” on page 108](#).
- Executing the batch script for metadata rules.

**Note:** Data load rule using EPMA Data Sync cannot be executed through the Batch Script option at this time. You can execute data load rules using EPMA Data Sync using the Execute button in Data Load Rules, or through the Data Load Workbench.

## Setting up the Batch Script

A set of system profiles needs to be configured to support a batch script and include:

- Encrypted password file directory—the directory where the file that store passwords in encrypted form is located.
- Servlet URL—Servlet used to invoke the batch script. The servlet URL is read from the EPM Workspace URL defined in the registry.

Additionally, when users specify the encrypted password and servlet URL, they must also select the Update Configuration File button in System Settings. This action saves the encrypted password and servlet URL and writes it to an `erpi.config` file in the `EPM_ORACLE_HOME/products/FinancialDataQuality/bin` directory. See also: [“Setting System Level Profiles” on page 46](#).

➤ To set up a batch script:

1 In the **Tasks** pane, under **Preferences**, select **System Settings**.

The System Setting screen is displayed.

2 In **Encrypted Password File Directory**, enter the directory where the file that stores passwords in encrypted form is located.

3 Click **Update Configuration File**.

4 Click **Save**.

## Using the Parameters for Data Load Rules

The parameters used to execute a batch script for data load rules are:

**Table 15** Parameters for Data Load Rules

Parameter	Value
User	Username
Password	Password or -f:Password file name
IMPORT_FROM_SOURCE	Y or N
EXPORT_TO_TARGET	Y or N
EXPORT_MODE	For Essbase & Planning Applications export modes are: <ul style="list-style-type: none"><li>● STORE_DATA</li><li>● ADD_DATA</li><li>● SUBTRACT_DATA</li><li>● OVERRIDE_ALL_DATA</li></ul> For HFM Applications export modes are: <ul style="list-style-type: none"><li>● Accumulate</li><li>● Replace</li><li>● Mode</li></ul>
EXEC_MODE	<ul style="list-style-type: none"><li>● Snapshot</li><li>● Incremental</li><li>● Full Refresh</li></ul>
LOAD_FX_RATE	Y or N
START_PERIOD_NAME	Period Name or POV if the POV specified period value is retrieved from the period profile.
END_PERIOD_NAME	Period Name or POV if the POV specified period value is retrieved from the period profile,
SYNC_MODE	SYNC / ASYNC <ul style="list-style-type: none"><li>● SYNC- Process runs immediately and control returns when process completes.</li><li>● ASYNC-When the ODI job is submitted, control will return. The load process continues to execute in ODI.</li></ul>

## Using the Parameters for Metadata Rules

The parameters used to execute a batch script for metadata rules are:

**Table 16** Parameters for Metadata Rules

Parameter	Value
User	Username
Password	Password or -f:Password file name
Location	Location Name
SYNC_MODE	SYNC / ASYNC <ul style="list-style-type: none"><li>● SYNC- Process will run immediately and control will return when process completes.</li><li>● ASYNC-When ODI job is submitted, control will return. The load process will continue to be executed in ODI.</li></ul>

## Executing the Batch Script for Data Load Rules

- To run the data load rule batch script with a plain text password, at a Windows command window or UNIX shell, paste and run the following command:  
`loaddata USER  
PASSWORD RULE_NAME IMPORT_FROM_SOURCE EXPORT_TO_TARGET  
EXPORT_MODE EXEC_MODE LOAD_FX_RATE START_PERIOD_NAME  
END_PERIOD_NAME SYNC_MODE`
- To run the data load rule batch script with a password from a file, at a Windows command window or UNIX shell, paste and run the following command:  
`loaddata USER -  
f:PASSWORD_FILE RULE_NAME IMPORT_FROM_SOURCE EXPORT_TO_TARGET  
EXPORT_MORE EXEC_MODE LOAD_FX_RATE START_PERIOD_NAME  
END_PERIOD_NAME SYNC_MODE`

## Executing the Batch Script for Metadata Rules

- To run the metadata load rule batch script with a plain text password, at a Windows command window or UNIX shell, paste and run the following command:  
`loadmetadata USER PASSWORD LOCATION_NAME SYNC_MODE`
- To run the metadata load rule batch script with a with a password from a file, at a Windows command window or UNIX shell, paste and run the following command:  
`loadmetadata USER PASSWORD LOCATION_NAME SYNC_MODE`

## Checking the Data Load Rule Status

After you run a data rule, you can check the status on the Process Details page. See [“Viewing Process Details” on page 84](#).

**Tip:** You can also check the status of the rule in Oracle Data Integrator.


## Deleting Data Load Rules

You can delete data load rules created in ERP Integrator. You cannot delete data load rules if they are in the process of running.

When you delete a rule, all data loaded using the data rule are also deleted.

**Note:** After you delete data load rules, you can delete a source system. After you execute a deletion, users cannot drill through to an ERP source.

► To delete a data load rule:

- 1 In the Tasks pane, select **Data Load**.
- 2 Enter the **Location Name** or click  to select the location.
- 3 Select the data load rule.
- 4 Click **Delete**.

## Using the Data Load Workbench

The Data Load Workbench feature provides a framework to import, view and verify, and export data from source systems in the ERP Integrator.

Key features of the Workbench include

- Interactive Load Process with options for Import and Export
- Provision to view Source (All) / Source (Mapped) / Target / Source and Target values
- PTD / YTD Value display for ready reference
- Display options for Valid, Invalid, Ignored and All Data
- Online and Offline Load process
- Query option for Historical Loads
- Historical Loads Export to Excel
- Drill-back to source from Workbench

**Note:** The Data Load Workbench and Write-Back Workbenches share an almost identical user interface. For this reason, both features are documented in this section. Exceptions are noted when applicable.

When you login with the Run Integration role, these links are visible in the Tasks pane: Data Load Workbench, Data Load, Member Mapping, HR Data Load, Metadata, and Process Detail.

The Data Load Workbench consists of three sections:



- POV Bar
- Status
- Data Grid

## Using the Workbench POV Bar

The POV bar shows the current:

- Location
- Period
- Category

The Source System and Target Application are displayed as context information.

A locked or unlocked symbol is shown next to the Source System and Target Application information. The symbol indicates if the location, period or category are locked. ) or unlocked (). Locking the POV prevents categories and periods from being modified.

## Selecting the Location POV

When users log on, the location POV is set to the user's default location. Users can view only locations that they have permission to access. Location permission is determined and granted by system administrators.

► To select another Location POV:

**1 From the Task pane, select Data Load Workbench.**

**2 In the \*Location field, click .**

The Search and Select: Location screen is displayed.

**3 In the Search and Select: Location screen, enter a full or partial string in the Location, Source System Name, or Target Application fields and click OK.**

## Searching Locations

Use the Search and Select: Location screen to search locations either by matching all or any location names or by using additional source system name and target application name criteria. You can toggle between a basic search or an advanced search. In an advanced search, you can specify search operators that joins keywords for location, source system or target application names. For example, you can instruct the search to return only those locations that “start with” the letter “k”.

➤ To perform a basic location search:

1 In the POV bar, click **Search Location** (  ).

The Search and Select Location screen is displayed.

2 Click **Basic**.

3 In **Match**, click either **All** or **Any**.

Match Any evaluates as an OR condition. Match All evaluates as an AND condition.

4 In **Location**, enter the full or partial string of the dimension name.

5 **Optional:** To search for a location based on a specific source system, in **Source System Name**, enter the name of the source system.


6 **Optional:** To search for a location based on a specific target application, in **Target Application**, enter the name of the target application.

7 Click **Search**.

The data grid is populated based on the search criteria.

8 From the location grid, select a location and click **OK**.

➤ To perform an advanced location search:

1 From the **Load Data** screen, click **Search Location** (  ).

The Search and Select Location screen is displayed.

2 Click **Advanced**.

3 In **Match**, click either **All** or **Any**.

Match Any evaluates as an OR condition. Match All evaluates as an AND condition,

4 In the **Location operator** drop-down, select the location operator, and then enter the full or partial string in the search box. Location operators include:

- Starts with
- Ends with
- Equals
- Does not equal
- Less than
- Greater than
- Less than or equal to
- Greater than or equal to
- Between
- Not between
- Contains
- Is blank

- Is not blank

**5** In the **Source System Name operator** drop-down, select the source system name operator, and then enter the full or partial string in the search box. Source system name operators include:

- Starts with
- Ends with
- Equals
- Does not equal
- Less than
- Greater than
- Less than or equal to
- Greater than or equal to
- Between
- Not between
- Contains
- Is blank
- Is not blank

**6** In the **Target Application operator** drop-down, select the target application name operator, and then enter the full or partial string in the search box. Target application name operators include:

- Starts with
- Ends with
- Equals
- Does not equal
- Less than
- Greater than
- Less than or equal to
- Greater than or equal to
- Between
- Not between
- Contains
- Is blank
- Is not blank

**7** Click **Search**.

The data grid is populated based on the search criteria.


**8** From the location grid, select a location and click **OK**.



## Setting the Period POV

Users can select the Period POV if the POV is not locked. In this case, the default user level Period POV profile is available from which a user can select another accounting period. If the Period POV is locked, the default application level Period POV profile is available only.

► To select another Period POV:

- 1 From the **Task pane**, select **Data Load Workbench**.
- 2 In the **POV bar**, click **Search Period** (  ).

The Search and Select Period screen is displayed.

- 3 Select a period and click **OK**.

## Setting the Category POV

Users can select the Category POV if the POV is not locked. In this case, the default user level Category POV profile is available from which a user can select another scenario. If the Period POV is locked, the default application level Category POV profile is available only.




► To select another Period POV:

- 1 From the **Task pane**, select **Data Load Workbench**.
- 2 In the **POV bar**, select a **Category from the Category** drop-down.

## Viewing the POV Status

The POV Status region is used to display the status of the data load process for the POV. The Import and Export statuses are:

**Table 17** Import and Export Status and Descriptions

Import and Export Status	Description
	Process is completed with invalid rows.
	Process is incomplete (a step has not been completed).
	Process is successful.

## Using the Workbench Data Grid

The data grid includes two tabs in the main grid:

- **Load Data/Load POV**—Use this tab to import, view and verify and export data from source systems.

- Query Data—Use this tab to display historical data based on the Period and Categories POVs. The Period and Category are specified in the in the Table Action. The Data Rule, Import, Export, Recalculate options in the table actions bar are not available in the Query Data tab. The Query Data tab is not available for the Data Write-Back Workbench.

**Note:** The information in this section is based on the Load Data tab. If you are using the Query Data tab and need specific information on a feature or field, refer to the documentation for the Load Data tab.

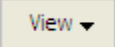
You perform tasks on the data grid by selecting options on the Table Action including:

- [“Viewing Data” on page 114](#)
- [“Formatting Data” on page 115](#)
- [“Showing Data” on page 116](#)
- [“Selecting Data Load Rules ” on page 116](#)
- [“Importing from Source” on page 116](#)
- [“Exporting to Target” on page 117](#)
- [“Viewing the Data Log” on page 118](#)
- [“Opening Data Load Rules” on page 119](#)
- [“Querying by Example” on page 119](#)
- [“Freezing Data” on page 119](#)
- [“Detaching Data” on page 120](#)
- [“Wrapping Text” on page 120](#)

## Viewing Data

The following View drop-down options provides multiple ways to view data.

**Table 18** View Options and Descriptions

View Option	Description
	<p>Customizes views. Options include:</p> <ul style="list-style-type: none"> <li>● <b>Table</b>—Selects the source or target data to display in the grid including: <ul style="list-style-type: none"> <li>○ Source (All)—Shows both mapped and unmapped source dimensions (ENTITY, ACCOUNT, UD1, UD2,... AMOUNT).</li> <li>○ Source (Mapped)—Shows only mapped source dimensions.</li> <li>○ Target—Shows only target dimensions (ENTITYX, ACCOUNTX, UD1X, UD2X,...AMOUNTX).</li> <li>○ Source and Target—Shows both source and target dimensions (ENTITY, ENTITYX, ACCOUNT, ACCOUNTX, UD1, UD1X, AMOUNT, AMOUNTX).</li> </ul> </li> <li>● <b>Columns</b>—Selects the columns to display in the data grid including: <ul style="list-style-type: none"> <li>○ Show All</li> <li>○ Entity</li> <li>○ Account</li> <li>○ Version</li> <li>○ Product</li> <li>○ Department</li> <li>○ STAT</li> <li>○ Amount</li> <li>○ PTD Amount</li> <li>○ YTD Amount</li> </ul> </li> <li>● <b>Freeze/Unfreeze</b>—Locks a column in place and keeps it visible when you scroll the data grid. The column heading must be selected to use the freeze option. To unfreeze a column, select the column and from the shortcut menu, select <i>Unfreeze</i>.</li> <li>● <b>Detach/Attach</b>—Detaches columns from the data grid. Detached columns display in their own window. To return to the default view, select <i>View</i>, and then click <i>Attach</i> or click <i>Close</i>.</li> <li>● <b>Sort</b>— Use to change the sort order of columns in ascending or descending order. A multiple level sort (up to three levels and in ascending and descending order) is available by selecting Sort, and then Advanced. From the Advanced Sort screen, select the primary “sort by” column, and then the secondary “then by” column, and then the third “then by” column.  The search fields that display in the advanced search options differ depending on what artifact you are selecting.</li> <li>● <b>Reorder Columns</b>—Use to change the order of the columns. When you select this option, the Reorder Columns screen is displayed. You can select a column and then use the scroll buttons on the right to change the column order.</li> <li>● <b>Query by Example</b>—Use to toggle the filter row. You can use the filter row to enter text to filter the rows that display for a specific column. You can enter text to filter on, if available, for a specific column, and then press [Enter]. To clear a filter, remove the text to filter by in the text box, then press [Enter]. All text you enter is case sensitive.</li> </ul>

## Formatting Data

You can resize the width of a column either by the number pixel characters or a percentage. You can also wrap text for each cell automatically when text exceeds the column width.

➤ To resize the width of a column:

- 1 Select the column to resize.

- 2 From the table action bar, select **Format**, and then **Resize**.

The Resize Column screen is displayed.

- 3 In the first **Width** field, enter the value to resize by.

You can select a column width from 1 to 1000.

- 4 In the second **Width** field, select either **pixel** or **percentage** as the measure to resize by.

- 5 Select **OK**.

► To wrap the text of a column:

- 1 Select the column with the text to wrap.

- 2 From the table action bar, select **Format**, and then **Wrap**.

## Showing Data

You can select the type of data to display in the data grid including:

- Valid Data—Data that was mapped properly and is exported to the target application.
  - Invalid Data—One or more dimensions that was not mapped correctly and as a result, the data is not exported to target.
  - Ignored Data—User defined explicit IGNORE maps to ignore while exporting to target. IGNORE maps are defined in the member mapping by assigning a special target member of IGNORE.
  - All Data—Shows all valid, invalid and ignored data.
- To show a type of data, select **Show** and choose either **Valid Data: Invalid Data, Ignored Data, or All Data**.

## Selecting Data Load Rules

You can select another data load rule for the location POV. When a data load rule is run, it loads the data and a drill region is created to allow users to drill through to the source data.

- To select another data rule, from the **Data Rule** drop-down, select another data rule associated with the location POV.

## Importing from Source

The Import from Source feature enables the Oracle Data Integrator to import the data from the source system, performs the necessary transformation, such as import, map and validate the data. The Import from Source features also allows you to import the source either online (immediate processing) or offline (runs in background).

Select this feature only if:

- You are running a data load rule for the first time.

- Your data in the source system changed. For example, if you reviewed the data in the staging table after the export, and it was necessary to modify data in the source system.

In many cases, source system data may not change after you import the data from the source the first time. Therefore, it is not necessary to keep importing the data if it has not changed.

► To submit the data load rule:

1 From the table action bar, select the **Data Rule** drop down, and choose the data load rule.

2 Click .

The Execution Mode Option screen is displayed.

3 From the **Execution Mode** drop down, select the mode of importing the source.

Execution modes include:

- online—ODI processes the data in sync mode (immediate processing).
- offline—ODI processes the data in async mode (runs in background).

Click on the *Import* or *Export* hyperlink in the status region to navigate to the Process Detail page to monitor the ODI job progress.

4 Click **OK**.

5 After you run a data rule, check the status of the import on the POV bar.

## Exporting to Target

Use the Export to Target feature to export data to a target application. Select this option after you have reviewed the data in the data grid and are sure you want to export it to the target application.

When exporting data for Planning and Essbase, you can store, add, and subtract data, For Planning only, you can override all data. For Financial Management, you can merge, accumulate and replace data.

► To submit the data load rule:

1 From the table action bar, select the **Data Rule** drop down, and choose the data load rule.

2 Click .

The Execution Mode Option screen is displayed.

3 From the **Execution Mode** drop down, select the mode of exporting to the target.

Execution modes include:

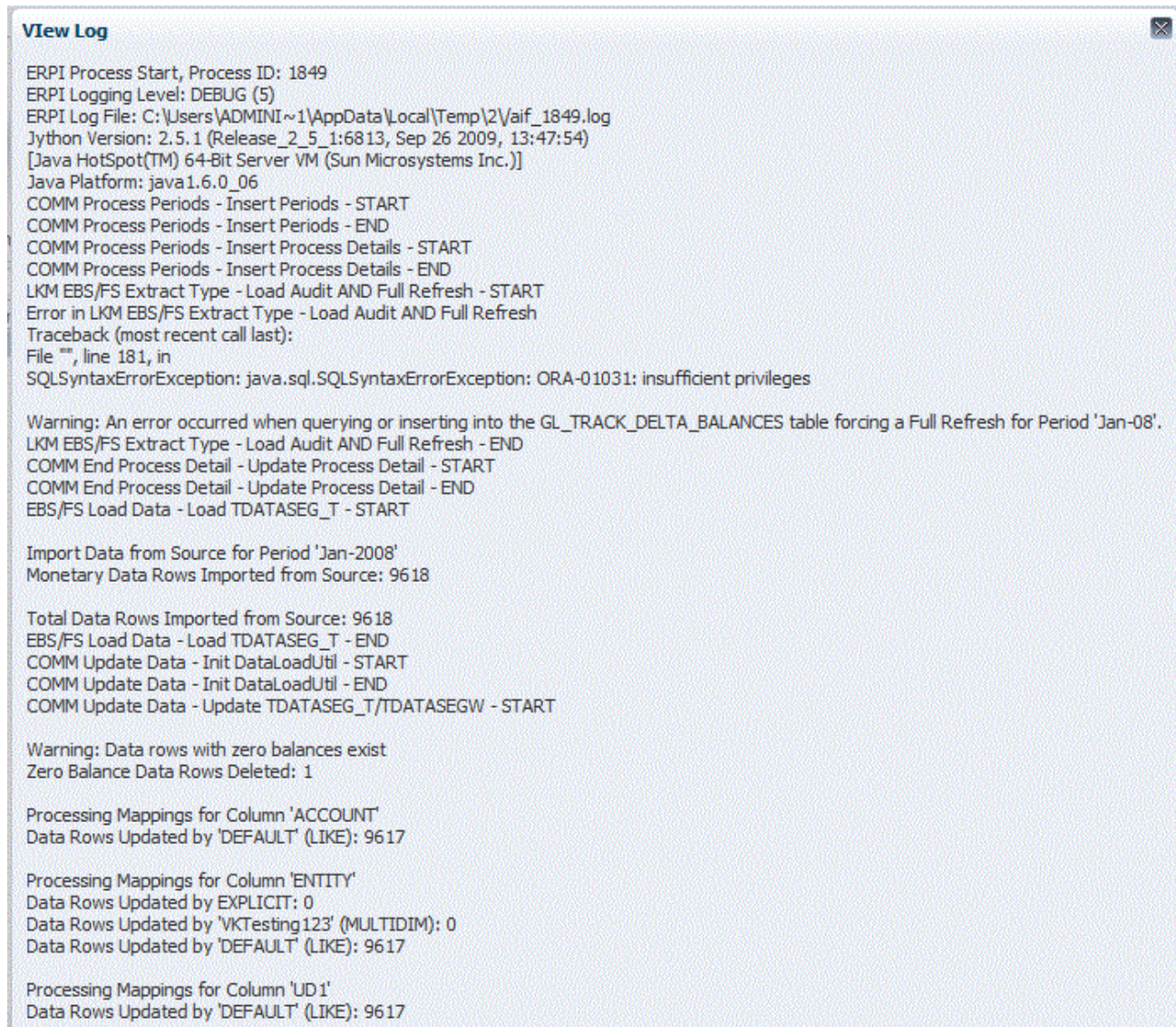
- online—ODI processes the data in sync mode (immediate processing).
- offline—ODI processes the data in async mode (runs in background).

Click on the *Import* or *Export* hyperlink in the status region to navigate to the Process Detail page to monitor the ODI job progress.

- 4 Click **OK**.
- 5 After you run a data rule, you can check the status of the export on the POV bar.

## Viewing the Data Log

You can view a log of the data load or write back execution. Logs show the processes and errors that are created when source files are imported, or when the data is exported to the target application. For example, the log shows the status for each process step. You can troubleshoot a problem by viewing at which point a process failed.



```
View Log
ERPI Process Start, Process ID: 1849
ERPI Logging Level: DEBUG (5)
ERPI Log File: C:\Users\ADMINI~1\AppData\Local\Temp\2\vaif_1849.log
Jython Version: 2.5.1 (Release_2_5_1:6813, Sep 26 2009, 13:47:54)
[Java HotSpot(TM) 64-Bit Server VM (Sun Microsystems Inc.)]
Java Platform: java1.6.0_06
COMM Process Periods - Insert Periods - START
COMM Process Periods - Insert Periods - END
COMM Process Periods - Insert Process Details - START
COMM Process Periods - Insert Process Details - END
LKM EBS/FS Extract Type - Load Audit AND Full Refresh - START
Error in LKM EBS/FS Extract Type - Load Audit AND Full Refresh
Traceback (most recent call last):
File "", line 181, in
SQLException: java.sql.SQLException: ORA-01031: insufficient privileges

Warning: An error occurred when querying or inserting into the GL_TRACK_DELTA_BALANCES table forcing a Full Refresh for Period 'Jan-08'.
LKM EBS/FS Extract Type - Load Audit AND Full Refresh - END
COMM End Process Detail - Update Process Detail - START
COMM End Process Detail - Update Process Detail - END
EBS/FS Load Data - Load TDATESEG_T - START

Import Data from Source for Period 'Jan-2008'
Monetary Data Rows Imported from Source: 9618


Total Data Rows Imported from Source: 9618
EBS/FS Load Data - Load TDATESEG_T - END
COMM Update Data - Init DataLoadUtil - START
COMM Update Data - Init DataLoadUtil - END
COMM Update Data - Update TDATESEG_T/TDATESEGW - START

Warning: Data rows with zero balances exist
Zero Balance Data Rows Deleted: 1

Processing Mappings for Column 'ACCOUNT'
Data Rows Updated by 'DEFAULT' (LIKE): 9617

Processing Mappings for Column 'ENTITY'
Data Rows Updated by EXPLICIT: 0
Data Rows Updated by 'VKTesting123' (MULTIDIM): 0
Data Rows Updated by 'DEFAULT' (LIKE): 9617


Processing Mappings for Column 'UD1'
Data Rows Updated by 'DEFAULT' (LIKE): 9617
```

- To view the data log, from the table action bar, click .

## Opening Data Load Rules

When reviewing data in the workbench, users can drill down from the amount to ERP source system. In the source system the data is displayed in the granularity with which it was loaded.

You can open the data load rules for a source system application in Microsoft Excel and review how the data is defined.


- To open the data load rules, from the table action bar, click .

You are prompted to open the rule in Microsoft Excel. You can specify another program in which to open the rule by selecting the “Open with” option and selecting the program.

## Querying by Example

Use the Query by Example feature to filter rows that display for a specific column. You can enter text to filter on, if available, for a specific column, and then press [Enter]. To clear a filter, remove the text to filter by in the text box, then press [Enter]. All text you enter is case sensitive.

- To query by example:

- 1 From the table action bar, click  to enable the filter row.

The filter row must appear above the columns to use this feature.


- 2 Enter the text by which to filter the values in the column and press [Enter].

**Note:** When entering text to filter, the text or partial text you enter is case sensitive. The case must match exactly. For example, to find all target applications prefixed with “HR,” you cannot enter “Hr” or “hr.”

## Freezing Data

Use the Freeze feature to lock a column in place and keeps it visible when you scroll the data grid.


- To freeze a column:

- 1 Select the column to freeze.
- 2 from the table action bar, click .

- ▶ To unfreeze a column, select the frozen column and on the shortcut menu, select **Unfreeze**.

## Detaching Data

Use the Detach feature to detach column from the data grid, When you detach the grid, columns display in their own window. To return to the default view, select *View*, and then click *Attach* or click the Close button


- ▶ To detach columns, from the table action bar, click ,

The data grid is displayed in a separate window.

- ▶ To reattach columns, from the table action bar, select **View**, and then **Attach**.

## Wrapping Text

You can wrap text for each cell automatically when text exceeds the column width.

- ▶ To wrap text for a column, select the column and click .



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# 6

# Data Write-Back

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## In This Chapter

Creating Mapping Definitions .....	122
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Loading Data into Supported Source Systems.....	138

Financial budgeting information often must be compared with and controlled with actuals and stored in the general ledger system. You define data write-back rules to determine how you want to extract the budget data from Planning and write it back to the ERP system. For example, you may want to write-back budget data.

You can define write back rules for Planning, Essbase ASO, and Essbase BSO 11.1.2.x applications only as the source and for these target source systems:

- PeopleSoft Enterprise Financial Management
- Oracle E-Business Suite

### Considerations:

- Data Write-back is supported for Planning, Essbase ASO, and Essbase BSO 11.1.2.x applications only. Applications created in earlier releases are not supported.
- Data Write-back is not supported for EPMA deployed ASO Essbase cubes,
- For Fusion and E-Business Suite source systems, you can post to budgets with or without budget journals.
- Only monetary and statistical amounts are eligible to be written back to the general ledger.
- You cannot create data write-back rules for PeopleSoft Human Capital Management source systems.
- ERP Integrator loads data into the specific data interface table. You must then run the budget load routines provided by Oracle Fusion, E-Business Suite or PeopleSoft Enterprise Financial Management.
- Allocation from a source amount to multiple target amounts is not provided.
- You must have the **GL Write-back** security role to create data write-back rules.

# Creating Mapping Definitions

Before you create a data write-back rule, you should create the write-back mappings. Data write-back mappings occur at the member level and are used for data write-back rules. (Loading data from a Planning application to your ERP source system.) You create write-back mappings to replace outgoing dimension members with source segment members. More specifically, during budget write-back, the write-back mapping will be referred to when replacing outgoing dimension members with segment values.

**Note:** The write-back feature is not available for Source Adapter based imports.

The following interface tables require “write” security privileges for the data write-back process:

## E-Business Suite

- GL\_INTERFACE
- GL\_INTERFACE\_CONTROL
- GL\_BUDGET\_INTERFACE


## PeopleSoft

- PS\_HPYPB\_ACCT\_LN

For additional information on database tables access by ERP Integrator, see [Appendix B, “Source System Tables Used by ERP Integrator.”](#)

► To create write-back mappings:

**1** In the Tasks pane, under **Write-Back**, select **Write-Back Mapping**.

**2** Enter the **Location Name** or click  to select the location.

**3** Select the **Segment**.

**4** Select a **Type**:

- **Explicit**—The source value is matched exactly and replaced with the target value. For example, the source value, “ABC” is replaced with the target value, “123.” “Explicit” write-back mappings are created the same for data load and data write-back rules. See [“Creating Mappings Using the Explicit Method” on page 89](#).
- **Between**—The range of source values are replaced with one target value. For example, a range from “001” to “010” is replaced as one value: “999.” “Between” write-back mappings are created the same for data load and data write-back rules. See [“Creating Mappings Using the Between Method” on page 89](#).
- **Like**—The string in the source value is matched and replaced with the target value. For example, the source value, “Department” is replaced with the target value, 'Cost Center A. See [“Creating Mappings Using the Like Method” on page 90](#).

Write-back mappings provide a means to remove or strip characters that were added during the data load process. “Like” write back mappings are created similar to, but reverse from the data load.

- **Multi-Dimension**—Define member mapping based on multiple source column values.

**Tip:** You can click Refresh Values to refresh the list of segment or chartfield values that appear in the drop-down list from the source system. This is especially helpful when creating “Explicit,” “Between,” “Like”, and “Multi-Dimension” mappings for data write-back data loads.

## Defining Data Write-back Rules

### Subtopics

- [Defining the Source Filter Options](#)
- [Defining Target Options](#)

You create a write-back rule for extracting budget data from an application to a general ledger instance and ledger source.

When you create a data write-back rule, you can write back in these ways:

- Choose the Planning application.
- Choose the Essbase ASO or Essbase BSO application.
- For Public Sector Planning and Budgeting applications where you have consolidated personnel (HR) and non-personnel expenses in the ASO cube, you pull information from the ASO application. For non-personnel related expenses you see only the total number (combination) in the ASO application.

**Note:** Public Sector Planning and Budgeting requires that you combine the regular planning results from an Essbase BSO cube, with the personnel position budget information in an Essbase ASO cube to new ASO cube.

When performing the data write-back for a Public Sector Planning and Budgeting application, you select the ASO cube that you created in Public Sector Planning and Budgeting. You can also select a Planning application as the source for the write-back.


The process at a high level:

1. ERP Integrator imports data from Planning and writes it to ERP Integrator staging table.
2. ERP Integrator applies the necessary transformation in the staging table.
3. Data is exported from the ERP Integrator staging table to a general ledger interface table.

The mapping is what you use to format the data in the journal import tables.

4. After a successful execution of the write-back rule, log in to the general ledger source system and run the budget import process in the general ledger.


► To define data write-back rules:

- 1 In the Tasks pane, select **Data Write-Back**.
- 2 Enter the **Location Name** or click  to select the location name.
- 3 Click **Add** to add a data write-back rule.
- 4 Enter the **Name**.
- 5 **For Planning applications:** Select the **Plan Type**.
- 6 **Optional:** Enter a description.
- 7 Click **Save**.
- 8 Define the source filters. See [“Defining the Source Filter Options” on page 124](#).


## Defining the Source Filter Options

You can define source filter options to specify the subset of budget data to extract from your Planning application and load in the general ledger.

► To define the source filter options:

- 1 In the Source Filters area, click .
- 2 Select the **Dimension Name**.
- 3 To assign a filter condition, perform an action:
  - Enter a member name or filter condition in the Filter Condition text box.

You can enter the member name or filter condition using Essbase syntax. Depending on the dimension, you can select one or more members as a filter condition used for extracting the budget data. For example, for the Entity dimension, you may select the following members: E1, E5, E6. For information on Essbase syntax, see the *Oracle Essbase Database Administrator's Guide*.

- Click  to select a member using the member selector. Then click **Browse**.

The Selector dialog box is displayed. The member selector enables you to view and select members within a dimension. Expand and collapse members within a dimension using the [+] and [-].

The Selector dialog box has two panes—all members in the dimension on the left and selections on the right. The left pane, showing all members available in the dimension, displays the member name and a short description, if available. The right pane, showing selections, displays the member name and the selection type.

You can use the Menu button above each pane to change the columns in the member selector.

**Note:** Assign filters for dimensions. If you do not assign filters, numbers from the summary members are also retrieved.

To use the member selector:

- a. In the list of available dimensions and members on the left, select a member and click



- b. To deselect a member from the list of members, click



- c. To add special options for the member, click



In the member options, “I” indicates inclusive. For example, “IChildren” adds all children for the member, including the selected member, and “IDescendants” adds all the descendants including the selected member. If you select “Children,” the selected member is not included and only its children are included.

The member is moved to the right and displays the option you selected in the Selection Type column. For example, “Descendants” displays in the Selection Type column.

**Tip:** To clear all members from the list of selections, click



- d. Click **OK** twice to return to continue defining the source filter details.

The member that you selected is displayed in an Essbase syntax in the Filter Condition field.

4 Click **Save**.

5 Define the target options. See [“Defining Target Options” on page 125](#).

## Defining Target Options

The target options define the options for importing a journal.

➤ To define target ERP source system options:

1 For Oracle Fusion and E-Business Suite source systems:

- a. Select whether to create a budget journal.

- b. Enter the **Budget** or click



to select the budget.

- c. Enter the **Budget Organization** or click



to select the budget organization.

2 Click **Save**.

3 For PeopleSoft Enterprise Financial Management source systems, enter or click



to make selections:

- a. **Budget Scenario**
- b. **Ledger Group**

c. **Ledger**

4 **Click Save.**

5 **Run the data write-back rule.** See [“Running Data Write-back Rules” on page 127.](#)

After you run the rule, you must perform required tasks in Fusion, E-Business Suite, and PeopleSoft Enterprise Financial Management. See [“Loading Data into Supported Source Systems” on page 138.](#)

## Managing Data Write-back Rules

### Subtopics

- [Editing Data Write-back Rules](#)
- [Running Data Write-back Rules](#)
- [Using the Write-Back Workbench](#)
- [Checking the Data Write-back Rule Status](#)
- [Deleting Data Write-back Rules](#)

You can perform the following tasks to manage your data write-back rules:

- Edit data write-back rules. See [“Editing Data Write-back Rules” on page 126.](#)
- Run data write-back rules. See [“Running Data Write-back Rules” on page 127.](#)
- Check the status of data write-back rules. See [“Checking the Data Load Rule Status” on page 108.](#)
- Delete data write-back rules. See [“Deleting Data Write-back Rules” on page 138.](#)
- View write-back rules before executing them—See [“Using the Data Load Workbench” on page 109](#)
- Check the data write-back rule process details. See [“Viewing Process Details” on page 84.](#)

## Editing Data Write-back Rules

After you create data write-back rules, you can edit the rules as necessary.

**Note:** You cannot edit the Plan Type or Location after the rule is run.

► To edit data write-back rules:

1 In the Tasks pane, under **Write-Back**, select **Write-Back Mapping**.

2 Enter the **Location Name** or click  to select the location name.

3 Select the data write-back rule.

4 Modify the source filters or target options as necessary, and then click **Save**.

## Running Data Write-back Rules

After you create a data write-back rule, you must run the rule to write back the data from the EPM Planning application to the general ledger system.

► To run a data write-back rule:

- 1 **Select the data write-back rules.**
- 2 **Click **Execute**.**

After the extraction process is successful, you must log in to Oracle General Ledger or PeopleSoft General Ledger and import the budget data. See [“Loading Data into Oracle E-Business Suite” on page 138](#).

- 3 **To load data from the source EPM application, select **Import from Source**.**

Select this option if you want to review the information in a staging table, before exporting directly to the target general ledger system.

When you select “Import from Source,” ERP Integrator imports the data from the EPM target application, performs the necessary transformations, and exports the data to the ERP Integrator staging table.

You can use a utility outside of ERP Integrator to view the data in the staging table. After you review the exported data, you can return to ERP Integrator, make modifications, and run the rule again. If you are sure that the information in the staging table is what you want to export to the general ledger system, run the rule again and select “Export to Target.”

For information on staging tables, see [“Staging Tables Used for Import from Source” on page 157](#).

- 4 **To export data to the target general ledger system, select **Export to Target**.**

ERP Integrator transfers the data into the general ledger system.

- 5 **Click **Run**.**

**Note:** After the rule successfully runs, you can view the information in the staging table. See [“Staging Tables Used for Import from Source” on page 157](#).

- 6 **After the rule runs, perform the required tasks in your general ledger system. See [“Loading Data into Oracle E-Business Suite” on page 138](#) and [“Loading Data into PeopleSoft Enterprise Financial Management” on page 139](#).**

## Using the Write-Back Workbench

The Write-Back Workbench provides the functionality from which you can review and verify the data to be written back to the ERP system.

Key features of the Write-Back Workbench include

- Interactive Load Process with options for Import and Export
- Provision to view Source (All) / Source (Mapped) / Target / Source and Target values

- PTD / YTD Value display for ready reference
- Display options for Valid, Invalid, Ignored and All Data
- Online and Offline Load process

**Note:** When you login with the Run Integration role, these links are visible in the Tasks pane: Data Load Workbench, Data Load, Member Mapping, HR Data Load, Metadata, and Process Detail.

The Workbench consists of three sections:



- POV Bar
- Status
- Data Grid

## Using the Workbench POV Bar

The POV bar shows the current:

- Location
- Period
- Category

The Source System and Target Application are displayed as context information.

A locked or unlocked symbol is shown next to the Source System and Target Application information. The symbol indicates if the location, period or category are locked. ) or unlocked (). Locking the POV prevents categories and periods from being modified.

## Selecting the Location POV

When users log on, the location POV is set to the user's default location. Users can view only locations that they have permission to access. Location permission is determined and granted by system administrators.

► To select another Location POV:

**1 From the Task pane, select Data Load Workbench.**

**2 In the \*Location field, click .**

The Search and Select: Location screen is displayed.

**3 In the Search and Select: Location screen, enter a full or partial string in the Location, Source System Name, or Target Application fields and click OK.**



## Searching Locations

Use the Search and Select: Location screen to search locations either by matching all or any location names or by using additional source system name and target application name criteria. You can toggle between a basic search or an advanced search. In an advanced search, you can specify search operators that joins keywords for location, source system or target application names. For example, you can instruct the search to return only those locations that “start with” the letter “k”.

➤ To perform a basic location search:

- 1 In the POV bar, click **Search Location** (  ).

The Search and Select Location screen is displayed.

- 2 Click **Basic**.

- 3 In **Match**, click either **All** or **Any**.

Match Any evaluates as an OR condition. Match All evaluates as an AND condition.

- 4 In **Location**, enter the full or partial string of the dimension name.

- 5 **Optional:** To search for a location based on a specific source system, in **Source System Name**, enter the name of the source system.


- 6 **Optional:** To search for a location based on a specific target application, in **Target Application**, enter the name of the target application.

- 7 Click **Search**.

The data grid is populated based on the search criteria.

- 8 From the location grid, select a location and click **OK**.

➤ To perform an advanced location search:

- 1 From the **Load Data** screen, click **Search Location** (  ).

The Search and Select Location screen is displayed.

- 2 Click **Advanced**.

- 3 In **Match**, click either **All** or **Any**.

Match Any evaluates as an OR condition. Match All evaluates as an AND condition,

- 4 In the **Location operator** drop-down, select the location operator, and then enter the full or partial string in the search box. Location operators include:

- Starts with
- Ends with
- Equals
- Does not equal
- Less than

- Greater than
- Less than or equal to
- Greater than or equal to
- Between
- Not between
- Contains
- Is blank
- Is not blank

**5** In the **Source System Name operator** drop-down, select the source system name operator, and then enter the full or partial string in the search box. Source system name operators include:

- Starts with
- Ends with
- Equals
- Does not equal
- Less than
- Greater than
- Less than or equal to
- Greater than or equal to
- Between
- Not between
- Contains
- Is blank
- Is not blank

**6** In the **Target Application operator** drop-down, select the target application name operator, and then enter the full or partial string in the search box. Target application name operators include:

- Starts with
- Ends with
- Equals
- Does not equal
- Less than
- Greater than
- Less than or equal to
- Greater than or equal to
- Between
- Not between

- Contains
- Is blank
- Is not blank

**7 Click Search.**

The data grid is populated based on the search criteria.

**8 From the location grid, select a location and click OK.**

### Setting the Period POV

Users can select the Period POV if the POV is not locked. In this case, the default user level Period POV profile is available from which a user can select another accounting period. If the Period POV is locked, the default application level Period POV profile is available only.

► To select another Period POV:

**1 From the Task pane, select Write-Back Workbench.**

**2 In the POV bar, click Search Period (  ).**

The Search and Select Period screen is displayed.

**3 Select a period and click OK.**

### Setting the Category POV

Users can select the Category POV if the POV is not locked. In this case, the default user level Category POV profile is available from which a user can select another scenario. If the Period POV is locked, the default application level Category POV profile is available only.

► To select another Period POV:



**1 From the Task pane, select Data Load Workbench.**


**2 In the POV bar, select a Category from the Category drop-down.**

### Viewing the POV Status

The POV Status region is used to display the status of the data load process for the POV. The Import and Export statuses are:

**Table 19** Import and Export Status and Descriptions

Import and Export Status	Description
	Process is completed with invalid rows.
	Process is incomplete (a step has not been completed).

Import and Export Status	Description
	Process is successful.

## Using the Workbench Data Grid

The data grid includes two tabs in the main grid:

- Load Data/Write-back Load (POV)—Use this tab to import, view and verify and export data from source systems.
- Query Data—Use this tab to display historical data based on the Period and Categories POVs. The Period and Category are specified in the in the Table Action. The Data Rule, Import, Export, Recalculate options in the table actions bar are not available in the Query Data tab. The Query Data tab is not available for the Data Write-Back Workbench.

**Note:** The information in this section is based on the Load Data tab. If you are using the Query Data tab and need specific information on a feature or field, refer to the documentation for the Load Data tab.

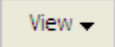
You perform tasks on the data grid by selecting options on the Table Action including:

- [“Viewing Data” on page 114](#)
- [“Formatting Data” on page 115](#)
- [“Showing Data” on page 116](#)
- [“Selecting Data Load Rules ” on page 116](#)
- [“Importing from Source” on page 116](#)
- [“Exporting to Target” on page 117](#)
- [“Viewing the Data Log” on page 118](#)
- [“Opening Data Load Rules” on page 119](#)
- [“Querying by Example” on page 119](#)
- [“Freezing Data” on page 119](#)
- [“Detaching Data” on page 120](#)
- [“Wrapping Text” on page 120](#)

## Viewing Data

The following View drop-down options provides multiple ways to view data.

**Table 20** View Options and Descriptions

View Option	Description
	<p>Customizes views. Options include:</p> <ul style="list-style-type: none"> <li>● <b>Table</b>—Selects the source or target data to display in the grid including: <ul style="list-style-type: none"> <li>○ Source (All)—Shows both mapped and mapped source dimensions (ENTITY, ACCOUNT, UD1, UD2,... AMOUNT).</li> <li>○ Source (Mapped)—Shows only mapped source dimensions.</li> <li>○ Target—Shows only target dimensions (ENTITYX, ACCOUNTX, UD1X, UD2X,...AMOUNTX).</li> <li>○ Source and Target—Shows both source and target dimensions (ENTITY, ENTITYX, ACCOUNT, ACCOUNTX, UD1, UD1X, AMOUNT, AMOUNTX).</li> </ul> </li> <li>● <b>Columns</b>—Selects the columns to display in the data grid including: <ul style="list-style-type: none"> <li>○ Show All</li> <li>○ Entity</li> <li>○ Account</li> <li>○ Version</li> <li>○ Product</li> <li>○ Department</li> <li>○ STAT</li> <li>○ Amount</li> <li>○ PTD Amount</li> <li>○ YTD Amount</li> </ul> </li> <li>● <b>Freeze/Unfreeze</b>—Locks a column in place and keeps it visible when you scroll the data grid. The column heading must be selected to use the freeze option. To unfreeze a column, select the column and from the shortcut menu, select <i>Unfreeze</i>.</li> <li>● <b>Detach/Attach</b>—Detaches columns from the data grid. Detached columns display in their own window. To return to the default view, select <i>View</i>, and then click <i>Attach</i> or click Close.</li> <li>● <b>Sort</b>— Use to change the sort order of columns in ascending or descending order. A multiple level sort (up to three levels and in ascending and descending order) is available by selecting Sort, and then Advanced. From the Advanced Sort screen, select the primary “sort by” column, and then the secondary “then by” column, and then the third “then by” column.  The search fields that display in the advanced search options differ depending on what artifact you are selecting.</li> <li>● <b>Reorder Columns</b>—Use to change the order of the columns. When you select this option, the Reorder Columns screen is displayed. You can select a column and then use the scroll buttons on the right to change the column order.</li> <li>● <b>Query by Example</b>—Use to toggle the filter row. You can use the filter row to enter text to filter the rows that display for a specific column. You can enter text to filter on, if available, for a specific column, and then press [Enter]. To clear a filter, remove the text to filter by in the text box, then press [Enter]. All text you enter is case sensitive.</li> </ul>

## Formatting Data

You can resize the width of a column either by the number pixel characters or a percentage. You can also wrap text for each cell automatically when text exceeds the column width.

➤ To resize the width of a column:

- 1 Select the column to resize.

- 2 From the table action bar, select **Format**, and then **Resize**.

The Resize Column screen is displayed.

- 3 In the first **Width** field, enter the value to resize by.

You can select a column width from 1 to 1000.

- 4 In the second **Width** field, select either **pixel** or **percentage** as the measure to resize by.

- 5 Select **OK**.

► To wrap the text of a column:

- 1 Select the column with the text to wrap.

- 2 From the table action bar, select **Format**, and then **Wrap**.

## Showing Data

You can select the type of data to display in the data grid including:

- Valid Data—Data that was mapped properly and is exported to the target application.
  - Invalid Data—One or more dimensions that was not mapped correctly and as a result, the data is not exported to target.
  - Ignored Data—User defined explicit IGNORE maps to ignore while exporting to target. IGNORE maps are defined in the member mapping by assigning a special target member of IGNORE.
  - All Data—Shows all valid, invalid and ignored data.
- To show a type of data, select **Show** and choose either **Valid Data: Invalid Data, Ignored Data,** or **All Data**.

## Selecting Write-Back Rules

- To select another write-back rule, from the **Write-Back Rule** drop-down, select another write-back associated with the location POV.

## Importing from Source

The Import from Source feature enables the Oracle Data Integrator to import the data from the source system, performs the necessary transformation, such as import, map and validate the data. The Import from Source features also allows you to import the source either online (immediate processing) or offline (runs in background).

Select this feature only if:

- You are running a data load rule for the first time.
- Your data in the source system changed. For example, if you reviewed the data in the staging table after the export, and it was necessary to modify data in the source system.

In many cases, source system data may not change after you import the data from the source the first time. Therefore, it is not necessary to keep importing the data if it has not changed.

► To submit the data load rule:

1 From the table action bar, select the **Data Rule** drop down, and choose the data load rule.

2 Click .

The Execution Mode Option screen is displayed.

3 From the **Execution Mode** drop down, select the mode of importing the source.

Execution modes include:

- online—ODI processes the data in sync mode (immediate processing).
- offline—ODI processes the data in async mode (runs in background).

Click on the *Import* or *Export* hyperlink in the status region to navigate to the Process Detail page to monitor the ODI job progress.

4 Click **OK**.

5 After you run a data rule, check the status of the import on the POV bar.

## Exporting to Target

Use the Export to Target feature to export data to a target application. Select this option after you have reviewed the data in the data grid and are sure you want to export it to the target application.

When exporting data for Planning and Oracle Essbase, you can store, add, and subtract data, For Planning only, you can override all data. For Oracle Hyperion Financial Management, Fusion Edition, you can merge, accumulate and replace data.

► To submit the data load rule:

1 From the table action bar, select the **Data Rule** drop down, and choose the data load rule.

2 Click .

The Execution Mode Option screen is displayed.

3 From the **Execution Mode** drop down, select the mode of exporting to the target.

Execution modes include:

- online—ODI processes the data in sync mode (immediate processing).
- offline—ODI processes the data in async mode (runs in background).

4 Click **OK**.

5 After you run a data rule, you can check the status of the export on the POV bar.

## Viewing the Data Log

You can view a log of the data load or write back execution. Logs show the processes and errors that are created when source files are imported, or when the data is exported to the target application. For example, the log shows the status for each process step. You can troubleshoot a problem by viewing at which point a process failed.

```
View Log
ERPI Process Start, Process ID: 1849
ERPI Logging Level: DEBUG (5)
ERPI Log File: C:\Users\ADMINI~1\AppData\Local\Temp\2\airf_1849.log
Jython Version: 2.5.1 (Release_2_5_1:6813, Sep 26 2009, 13:47:54)
[Java HotSpot(TM) 64-Bit Server VM (Sun Microsystems Inc.)]
Java Platform: java1.6.0_06
COMM Process Periods - Insert Periods - START
COMM Process Periods - Insert Periods - END
COMM Process Periods - Insert Process Details - START
COMM Process Periods - Insert Process Details - END
LKM EBS/FS Extract Type - Load Audit AND Full Refresh - START
Error in LKM EBS/FS Extract Type - Load Audit AND Full Refresh
Traceback (most recent call last):
File "", line 181, in
SQLException: java.sql.SQLException: ORA-01031: insufficient privileges

Warning: An error occurred when querying or inserting into the GL_TRACK_DELTA_BALANCES table forcing a Full Refresh for Period 'Jan-08'.
LKM EBS/FS Extract Type - Load Audit AND Full Refresh - END
COMM End Process Detail - Update Process Detail - START
COMM End Process Detail - Update Process Detail - END
EBS/FS Load Data - Load TDATESEG_T - START

Import Data from Source for Period 'Jan-2008'
Monetary Data Rows Imported from Source: 9618


Total Data Rows Imported from Source: 9618
EBS/FS Load Data - Load TDATESEG_T - END
COMM Update Data - Init DataLoadUtil - START
COMM Update Data - Init DataLoadUtil - END
COMM Update Data - Update TDATESEG_T/TDATESEGW - START

Warning: Data rows with zero balances exist
Zero Balance Data Rows Deleted: 1

Processing Mappings for Column 'ACCOUNT'
Data Rows Updated by 'DEFAULT' (LIKE): 9617

Processing Mappings for Column 'ENTITY'
Data Rows Updated by EXPLICIT: 0
Data Rows Updated by 'VKTesting123' (MULTIDIM): 0
Data Rows Updated by 'DEFAULT' (LIKE): 9617

Processing Mappings for Column 'UD1'
Data Rows Updated by 'DEFAULT' (LIKE): 9617
```


➤ To view the data log, from the table action bar, click .

## Opening Write-Back Rules

When reviewing data in the workbench, users can drill down from the amount to ERP source system. In the source system the data is displayed in the granularity with which it was loaded.

You can open the data load rules for a source system application in Microsoft Excel and review how the data is defined.




- To open the data load rules, from the table action bar, click .

You are prompted to open the rule in Microsoft Excel. You can specify another program in which to open the rule by selecting the “Open with” option and selecting the program.

## Querying by Example

Use the Query by Example feature to filter rows that display for a specific column. You can enter text to filter on, if available, for a specific column, and then press [Enter]. To clear a filter, remove the text to filter by in the text box, then press [Enter]. All text you enter is case sensitive.

- To query by example:

- 1 From the table action bar, click  to enable the filter row.

The filter row must appear above the columns to use this feature.


- 2 Enter the text by which to filter the values in the column and press [Enter].

**Note:** When entering text to filter, the text or partial text you enter is case sensitive. The case must match exactly. For example, to find all target applications prefixed with “HR,” you cannot enter “Hr” or “hr.”

## Freezing Data

Use the Freeze feature to lock a column in place and keeps it visible when you scroll the data grid.


- To freeze a column:

- 1 Select the column to freeze.
- 2 from the table action bar, click .

- To unfreeze a column, select the frozen column and on the shortcut menu, select Unfreeze.

## Detaching Data

Use the Detach feature to detach column from the data grid, When you detach the grid, columns display in their own window. To return to the default view, select *View*, and then click *Attach* or click the Close button


- To detach columns, from the table action bar, click .

The data grid is displayed in a separate window.

- To reattach columns, from the table action bar, select **View**, and then **Attach**.

## Wrapping Text

You can wrap text for each cell automatically when text exceeds the column width.


- To wrap text for a column, select the column and click .

## Checking the Data Write-back Rule Status

After you run a data write-back rule, you can check the status on the Process Details page. See [“Viewing Process Details” on page 84](#).

**Tip:** You can also check the status of the rule in Oracle Data Integrator.

## Deleting Data Write-back Rules

- To delete data write-back rules:
  - 1 In the Tasks pane, under **Write-Back**, select **Write-Back Mapping**.
  - 2 Enter the **Location Name** or click  to select the location name.
  - 3 Select the data write-back rule.
  - 4 Click **Delete**.

## Loading Data into Supported Source Systems

### Subtopics

- [Loading Data into Oracle E-Business Suite](#)
- [Loading Data into PeopleSoft Enterprise Financial Management](#)

To complete the data write-back process, you must perform required tasks in your supported source system.

## Loading Data into Oracle E-Business Suite

If the target source system is Oracle E-Business Suite, you must import the budget data using Oracle General Ledger.

Refer to the Oracle Fusion and E-Business Suite user documentation for detailed information. At a high level, follow this process:

1. Launch Oracle General Ledger.
2. Run the Journal Import process.

If you select the Create Journal option:

- Data is extracted to the journal interface table (GL\_INTERFACE).
- ERP Integrator stores the process ID in the GROUP\_ID column. You can check the data that was created by filtering on the process ID.
- If no errors occur, a journal entry is created.

If you clear the Create Journal option:

- Data is extracted to the budget interface table (GL\_BUDGET\_INTERFACE).
- Carefully select Budget Name (BUDGET\_NAME) and Budget Organization (BUDGET\_ENTITY\_NAME) when loading data into the GL\_BUDGET\_INTERFACE table.
- If no errors occur, the budget balances are posted.

3. Review the journal or budget balances.

## Loading Data into PeopleSoft Enterprise Financial Management

If the target is PeopleSoft, you must import the budget data using PeopleSoft General Ledger.

Refer to the PeopleSoft Enterprise Financial Management user documentation for detailed information. At a high level, follow this process:

1. Launch PeopleSoft General Ledger.
2. Run the Generate Journals process.
3. When generating a journal request, define these required options:
  - Accounting Definition Name—Select HYPDEFN
  - Template—Select HYP\_STDBUD

The data is staged in the PS\_HPYPB\_ACCT\_LN interface table. ERP Integrator stores the process ID in the JRNL\_LN\_REF table. You can check the data that was created by filtering on the process ID.

4. Run the process.

If the process runs without errors, the journals are created.

5. Review the journal, create balancing entries, and then post the journal.





# Human Resource Data Load Rules

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## In This Chapter

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## Defining Human Resource Data Load Rules

### Subtopics

- [Defining the Rule Details](#)
- [Creating Rule Line Definitions by Copying](#)
- [Creating Rule Line Definitions by a Template Mapping](#)
- [Creating Rule Line Definitions](#)
- [Creating Mapping Definitions](#)

At a high level, creating human resource data load rules that enable you to populate data and metadata in Public Sector Planning and Budgeting applications involves these steps:

- Create the human resource data rule and define the rule details. See [“Defining the Rule Details”](#) on page 142.
- Create the rule line definitions and mappings manually or by running a script. See [“Creating Rule Line Definitions by a Template Mapping”](#) on page 143 and [“Creating Rule Line Definitions”](#) on page 143.
- [“Creating Mapping Definitions”](#) on page 144

Before you begin, ensure that you have performed all required tasks described in [Chapter 3](#), [“Preparing the Human Resource Integration.”](#)

- [“Running Processes in PeopleSoft Human Capital Management”](#) on page 40
- [“Defining the Data Load Settings in Planning”](#) on page 40



Before you create a human resource data load rule, you must:

1. Register your human resource source system.
2. Register your target Public Sector Planning and Budgeting application.
3. Review the selected Source Accounting Entities.
4. Define import formats and locations.

For a high-level process overview, see [“Extracting Human Resource Data”](#) on page 25.

## Defining the Rule Details

► To define rule details:


- 1 In the Tasks pane, under **HR Data Load**, select **HR Data Load**.
- 2 Enter or click  to select the **Location**.
- 3 In the Rule Name area, click **Add**.
- 4 In the Rule Definition area, enter the **Rule Name**.
- 5 Enter or click  to select the value of the **Scenario** dimension you identified when you registered the application. This enables you to classify and collect time-specific data.
- 6 **Optional:** Enter a **Description**.
- 7 Select the **Salary Assignment Option** to specify the salary assignment details to load by the database table.

Salary Assignment Options:

- **Standard**—Load data from PS\_JOB table that is live on a given “As of Date.”
- **Auto Increment**—Load data from PS\_BP\_JOB table that is either live on a given “As of Date” or is later than it.

**Note:** To use this option, perform these steps in [“Running Processes in PeopleSoft Human Capital Management”](#) on page 40.

- **Standard - Include Future Dated**—Load data from PS\_JOB table that is either live on a given “As of Date” or is later than it.

- 8 Enter or click  to select the member of the **Version** dimension.
- 9 Click **Save**.
- 10 Next, create the rule line definition.

You have three options to create the rule line definition:

- Copy an existing rule—See [“Creating Rule Line Definitions by Copying”](#) on page 143.
- Use a template to create the rule line definitions—See [“Creating Rule Line Definitions by a Template Mapping”](#) on page 143.
- Create the rule line definitions manually—See [“Creating Rule Line Definitions”](#) on page 143.

## Creating Rule Line Definitions by Copying

You can create a rule line definition by copying a human resource data rule. Copying a rule copies all the POV rules and their mapping details.

**Note:** You cannot copy rules across Classic Planning and Performance Management Architect Planning applications.

➤ To create rule line definitions by copying:

- 1 Perform the steps in [“Defining the Rule Details” on page 142](#).
- 2 In the Rule Definition area of the HR Data Load page, select **Create Mapping**, and then **Copy from another rule**.

The Copy Rule dialog box is displayed.

- 3 Select the source rule you want to copy.
- 4 Click **Copy**.
- 5 Click **OK**.

The POV rules and their mapping details are displayed in the Rule Line area.

- 6 Edit the mappings as necessary. See [“Creating Mapping Definitions” on page 144](#).

## Creating Rule Line Definitions by a Template Mapping

You can use a template mapping to automatically create rule line definitions for Public Sector Planning and Budgeting dimensions.

➤ To create rule line definitions using a template:

- 1 Perform the steps in [“Defining the Rule Details” on page 142](#).
- 2 Select **Create Mapping**, and then **Create Template Mapping**.
- 3 Select the **Language**.
- 4 Click **OK**.
- 5 Click **OK**.


The Rule Line Definition area is populated with POVs from the template.

- 6 Edit the rule line definitions or add new rule line definitions, as necessary. See [“Editing Human Resource Data Load Rules” on page 146](#).
- 7 Run the data load rule. See [“Running Human Resource Data Load Rules” on page 146](#).

## Creating Rule Line Definitions

You create rule line definitions to map dimension members to a Planning account.



► To create rule line definitions:

- 1 In the Rule Line area, click .
- 2 In **POV Name**, enter a descriptive name for the point of view.
- 3 In **POV Type**, select the set of dimensions:
  - **Position Property**—Position dimension member properties
  - **Employee Property**—Employee dimension member properties
  - **Position and/or Employee Assignment**—Property and salary data associated with positions and employees.
  - **Compensation Allocation**—Allocation of salary costs to general ledger accounts for positions and employees.
  - **Jobcode Property**—Available if you created an Employee Only application in Planning, this dimension provides position and employee member properties.
  - **Salary Grade**—Rates for Element dimension members that correspond to salary grades.
  - **Salary Step**—Rates for Element dimension members that correspond to salary steps.
- 4 Define the mappings for the POV. See [“Creating Mapping Definitions” on page 144](#).
- 5 Repeat [step 1](#) through [step 3](#) for each POV you want to define.

## Creating Mapping Definitions

You define mapping definitions to specify which Public Sector Planning and Budgeting accounts to load with the extracted human resource data. For each dimension in the point of view, you must select a member, and then map the column in the source system to a Planning account.

► To create mapping definitions:

- 1 In the Rule Line area, click  to add a rule line mapping.  
The Rule Line Mapping page is displayed.
- 2 In the Rule Line Point of View area, enter or click  to search for a member and map the members for dimensions in the point of view (POV).

You must enter a member for:

- **Budget Item**—For Budget Item dimensions, you may want ERP Integrator to automatically create the budget item values. This option is available only for the Unspecified Budget Member. You must select a parent member if you plan to select the optional **Auto create flag** setting.

**Note:** The parent member that you select must match what you selected in the Oracle Hyperion Planning, Fusion Edition Data Load Settings window. See [“Defining the Data Load Settings in Planning” on page 40](#).



- Year
- Period


Selecting a member for all other dimensions is optional. If you do not select a member for a dimension, ERP Integrator loads the values as-is from the source system.

- 3 In the Rule Line Mapping area, define the source column to account mappings. To add a mapping, click



- 4 Enter or click  to select the **Source Column**.

You select the source column in the PeopleSoft Human Capital Management table that contains the human resource data to load. For example, if you are creating a rule line mapping for Salary Grade, you might select the source column “Grade” in the PeopleSoft human resource table. The source columns that display are specific to the POV Type that you selected when you created the rule line definition.

- 5 Enter or click  to select the **Account**.

You select the Public Sector Planning and Budgeting account into which to load the extracted human resource data. For example, to load employee names and IDs, select Employee Name and Employee Number. For a list of all tables and columns, see [Appendix C, “ERP Integrator Staging Tables.”](#)

The Data Type and Smart List Name fields are automatically populated based on the Account you selected.

**Note:** Several Smart Lists in Public Sector Planning and Budgeting applications are paired (for example, Account Segment and Account Segment Description). When you map from the source system to a paired Smart List, map only one of the paired Smart List members (for example, Account Segment, but not Account Segment Description).

- 6 Click **Save**.
- 7 Click **Back** to return to the HR Data Load page.
- 8 Next, run the data load rule. See [“Running Human Resource Data Load Rules” on page 146](#).

## Managing Human Resource Data Load Rules


Perform the following tasks to manage your data rules:

- Edit data load rules—Typically, if you used a script to create the rule line definitions, you may want to add or edit the mappings. See [“Editing Human Resource Data Load Rules” on page 146](#).
- Run data load rules. See [“Running Human Resource Data Load Rules” on page 146](#).
- Delete data load rules. See [“Deleting Human Resource Data Load Rules” on page 148](#).

- Check the data rule process details. See [“Checking the Human Resource Data Load Rule Status” on page 148.](#)

## Editing Human Resource Data Load Rules

► To edit human resource data load rules:

- 1 In the Tasks pane, select **HR Data Load**.
- 2 Enter or click  to select the **Location**.
- 3 Select the rule to modify and change the rule details, rule line definition, and mapping settings. See [“Defining Human Resource Data Load Rules” on page 141.](#)
- 4 Click **Save**.

## Running Human Resource Data Load Rules

To extract and load data from PeopleSoft Human Capital Management, run the human resource data load rule that you defined.

When you run a human resource data load rule, you have several options.

- **Import from Source**—ERP Integrator imports the data from the source system, performs the necessary transformations, and loads the data to the ERP Integrator staging table.

Select this option only in these situations:

- You are running a data load rule for the first time.
- Your data in the source system changed. For example, if you reviewed the data in the staging table after the export and it was necessary to modify data in the source system.

In many cases, your source system data may not change after you import the data from the source the first time. Therefore, you need not import the data.

- **Export to Target**—Exports the data to the target application.

Select this option after you have reviewed the data in the staging table and are sure you want to export it to the target application.

**Note:** Select both options only in cases where you want to load the data directly into the target application.

► To run human resource data load rules:

- 1 On the **HR Data Load** page, select the rule.
- 2 Click **Execute**.
- 3 Enter or select the **As of Date** from which to load data from the human resource source system.

4 To extract data from the source system, select **Import from Source**.

**Tip:** You can use a utility outside of ERP Integrator to view the data in the staging table. After you review the exported data, you can return to ERP Integrator, make modifications, and run the rule again. If you are sure that the information in the staging table is what you want to export to the target application, you can run the rule again and select “Export to Target.”

For information on staging tables, see [“Staging Tables Used for Import from Source” on page 157](#).

5 To seed loaded data into your target Public Sector Planning and Budgeting application, select **Export to Target**.

Selecting export to target exports the data to the target application.

6 If you selected **Export to Target**, perform these actions:

a. To load data and/or metadata into a Classic Public Sector Planning and Budgeting application: Select the **Load Type**:

- Data—Loads only the data.
- Metadata—Loads only the Public Sector Planning and Budgeting metadata.
- Both—Loads the data and metadata.

**Note:** Choose either Metadata or Both as the load type on a new application; otherwise the data load will fail.

b. To load data and/or metadata into a Performance Management Architect Public Sector Planning and Budgeting application:

- i. Select **Metadata** and run the data load rule.
- ii. After the rule runs successfully, in Oracle Hyperion EPM Architect, Fusion Edition, deploy the application.
- iii. Return to ERP Integrator. On the HR Data Load page, locate the rule.
- iv. Click **Execute** to run the data load rule, and then select **Data**.

c. Select the **Department Load Option** to indicate whether to load all or specific departments and department data in the business unit:

- **All**—Load data for all departments to the target application.
- **Selected**—Load data for departments that you select to the target application. You can press the [Ctrl] key and select multiple departments.

**Note:** ERP Integrator merges data and does not “replace” balance data in a target application.

7 Click **Run**.

Data is loaded into your Oracle Hyperion Public Sector Planning and Budgeting, Fusion Edition accounts.

## Deleting Human Resource Data Load Rules

When you delete a human resource data rule, only the rule is removed. The extracted data or dimensions are not removed. You cannot delete a data rule if it is running.

► To delete human resource data rules:

1 In the Tasks pane, select **HR Data Load**.

2 Enter or click  to select the **Location**.

3 Select the rule to remove and then click **Delete**.

The Delete Confirmation dialog box is displayed.

4 Click **Yes**.

The rule is deleted.

## Checking the Human Resource Data Load Rule Status

► To check data load rule status, in the Tasks pane, select **Process Details**. See [“Viewing Process Details” on page 84](#).



# ERP Integrator Web Service

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This appendix describes the ERP Integrator web service.

Access the ERP Integrator Web Services WSDL at <http://<Host Name>:19000/aif/services/RuleService?wsdl>, where *Host Name* is the name of the host where Workspace is deployed.

## executeDataRule

The `executeDataRule` method executes a data rule after validating the parameters passed with the rule. If the parameter is invalid, error messages are displayed.

Parameter Name	Valid Values	Associated Error Codes	Comments
String pUserName String pPassword String pSSOToken		AIF_ERR_00002:Invalid User Name/ Password combination.  AIF_ERR_00001:Invalid Token	Of these three parameters you should pass either the username and password or a valid sso_token.
String pImportFromSource	Y/N	AIF_ERR_00005:Invalid value for Import From Source Parameter	
String pExportToTarget	Y/N	AIF_ERR_00006:Invalid value for Export to Target Parameter	
String pRuleName		AIF_ERR_00004:Invalid Data Rule Name	The name of the data rule for a location.
String pExecutionMode	INCREMENTAL/SNAPSHOT	AIF_ERR_00007:Invalid value for Execution mode	Data rule execution mode

Parameter Name	Valid Values	Associated Error Codes	Comments
String pLoadExchangeRateFlag	Y/N	AIF_ERR_00008:Invalid value for Load Exchange Rate Flag	This parameter can be used only in case of multi-currency applications.
String pStartPeriodName	Start Period name	AIF_ERR_00010:Invalid Period Keys	
String pEndPeriodName	End Period name	AIF_ERR_00010:Invalid Period Keys	
String pSyncMode	TRUE/FALSE	AIF_ERR_00009:Invalid value for sync mode	This parameter represents where the execution should take place synchronously or asynchronously. Value of True executes the job synchronously.

## executeMetaDataRule

The executeMetaDataRule method executes a metadata rule after validating the locationName parameter. If the parameter is invalid, error messages are displayed.

Parameter Name	Valid Values	Associated Error Codes	Comments
String pUserName String pPassword String pSSOToken		AIF_COMMON_ERR_00001:Invalid token. AIF_COMMON_ERR_00002:Invalid User Name/Password combination.	Of these three parameters you should pass either the username and password or a valid sso_token.
String locationName		AIF_ERR_00015: Invalid Location Name	The location name
String pSyncMode	TRUE/FALSE	AIF_ODI_ERR_00002:Invalid value passed for synchronous mode parameter.	This parameter represents where the execution should take place synchronously or asynchronously. Value of True executes the job synchronously.

## getDataRuleNames

The getDataRuleNames method retrieves a list of data rule names for the location. If no location is passed, an empty array is returned.

Parameter Name	Valid Values	Associated Error Codes	Comments
String pUserName String pPassword String pSSOToken		AIF_COMMON_ERR_00002:Invalid User Name/Password combination. AIF_COMMON_ERR_00001:Invalid token.	Of these three parameters you should pass either the username and password or a valid sso_token.

Parameter Name	Valid Values	Associated Error Codes	Comments
String locationName			The location name.

## getLocationNames

Provides a list of locations for the executeMetaDataRule web service.

Parameter Name	Valid Values	Associated Error Codes	Comments
String pUserName		AIF_COMMON_ERR_00002:Invalid User Name/Password combination.	
String pPassword		AIF_COMMON_ERR_00001:Invalid token.	
String pSSOToken			

## getPeriodNames

Provides a list of period names for the pStartPeriodName and pEndperiodName parameters of the executeDataRule service.

Parameter Name	Valid Values	Associated Error Codes	Comments
String pUserName		AIF_COMMON_ERR_00002:Invalid User Name/Password combination.	
String pPassword		AIF_COMMON_ERR_00001:Invalid token.	
String pSSOToken			







# Source System Tables Used by ERP Integrator

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This section lists the source system tables used by ERP Integrator. ERP Integrator reads all tables listed and writes to GL\_BUDGET\_INTERFACE and GL\_TRACK\_DELTA\_BALANCES.

## Fusion and E-Business Suite Source System Tables

These Fusion and E-Business Suite source system tables are used by ERP Integrator. All tables require read privileges, unless noted otherwise.

Table / View Name	Schema	Comments
FND_FLEX_VALIDATION_QUALIFIERS	APPLSYS	
FND_FLEX_VALIDATION_TABLES	APPLSYS	
FND_FLEX_VALUES	APPLSYS	
FND_FLEX_VALUES_TL	APPLSYS	
FND_FLEX_VALUE_CHILDREN_V	APPS	View based on FND_FLEX_VALUE_NORM_HIERARCHY, FND_FLEX_VALUE_SETS, and FND_FLEX_VALUES_VL
FND_FLEX_VALUE_NORM_HIERARCHY	APPLSYS	
FND_FLEX_VALUE_SETS	APPLSYS	
FND_FORM_FUNCTIONS	APPLSYS	
FND_ID_FLEXS	APPLSYS	
FND_ID_FLEX_SEGMENTS	APPLSYS	
FND_ID_FLEX_SEGMENTS_TL	APPLSYS	
FND_ID_FLEX_STRUCTURES	APPLSYS	

Table / View Name	Schema	Comments
FND_ID_FLEX_STRUCTURES_TL	APPLSYS	
FND_LANGUAGES	APPLSYS	
FND_RESPONSIBILITY	APPLSYS	
FND_RESPONSIBILITY_TL	APPLSYS	
FND_SEGMENT_ATTRIBUTE_VALUES	APPLSYS	
GL_BALANCES	GL	
GL_BALANCES_DELTA	GL	
GL_BUDGETS	GL	
GL_BUDGET_ENTITIES	GL	
GL_BUDGET_INTERFACE	GL	Read and write privileges are required.
GL_BUDGET_VERSIONS	GL	
GL_CODE_COMBINATIONS	GL	
GL_CODE_COMBINATIONS_KFV	APPS	View based on GL_CODE_COMBINATIONS
GL_DAILY_BALANCES	GL	
GL_DAILY_CONVERSION_TYPES	GL	
GL_DAILY_CONVERSION_TYPES_V	APPS	View based on GL_DAILY_CONVERSION_TYPES
GL_DAILY_RATES	GL	
GL_ENCUMBRANCE_TYPES	GL	
GL_INTERFACE	GL	Read and write privileges are required.
GL_JE_CATEGORIES	GL	
GL_JE_CATEGORIES_TL	GL	
GL_JE_SOURCES_TL	GL	
GL_PERIODS	GL	
GL_PERIOD_SETS	GL	
GL_PERIOD_TYPES	GL	
GL_PERIOD_TYPES_V	APPS	View based on GL_PERIOD_TYPES
GL_LEDGERS	GL	Table (R12 only)
GL_SETS_OF_BOOKS	GL/APPS	Table (11i) / View based on GL_LEDGERS (R12)

Table / View Name	Schema	Comments
GL_STAT_ACCOUNT_UOM	GL	
GL_TRACK_DELTA_BALANCES	GL	Read and write privileges are required.

## PeopleSoft Enterprise Financial Management Source System Tables

These PeopleSoft Enterprise Financial Management source system tables are used by ERP Integrator. All tables require read privileges, unless noted otherwise.

Table / View Name	Table / View Name	Table / View Name	Table / View Name
PS_AFFILIATE_LANG	PS_CAL_SUMP_TBL	PS_LED_DEFN_LANG	PS_RT_DFLT_VW
PS_AFFILIATE_VW	PS_CF1_LANG	PS_LED_DEFN_TBL	PS_RT_TYPE_TBL
PS_AFFINTRA1_LANG	PS_CF2_LANG	PS_LED_GRP_LANG	PS_SET_CNTRL_REC
PS_AFFINTRA1_VW	PS_CF3_LANG	PS_LED_GRP_LED_TBL	PS_SET_CNTRL_TBL
PS_AFFINTRA2_LANG	PS_CHARTFIELD1_TBL	PS_LED_GRP_TBL	PS_SET_CNTRL_TREE
PS_AFFINTRA2_VW	PS_CHARTFIELD2_TBL	PS_LED_TMPLT_TBL	PS_SETID_TBL
PS_ALTACCT_LANG	PS_CHARTFIELD3_TBL	PS_LEDGER	PSDBFLDLABL
PS_ALTACCT_TBL	PS_CLASS_CF_LANG	PS_LEDGER_BUDG	PSDBFLDLABLLANG
PS_BD_SCENARIO_TBL	PS_CLASS_CF_TBL	PS_LOCATION_TBL	PSKEYDEFN
PS_BOOK_CODE_TBL	PS_DEPT_TBL	PS_NAMES	PSOPTIONS
PS_BU_BOOK_TBL	PS_DEPT_TBL_LANG	PS_OPER_UNIT_LANG	PSRECDEFN
PS_BU_LED_GRP_TBL	PS_EARNINGS_TBL	PS_OPER_UNIT_TBL	PSRECFIELD
PS_BUD_REF_LANG	PS_FS_CF_TEMPLATE	PS_PAYGROUP_TBL	PSTREEDEFN
PS_BUD_REF_TBL	PS_FS_FLD_PROMPT	PS_POSITION_DATA	PSTREEDEFNLANG
PS_BUS_UNIT_LANG	PS_FUND_LANG	PS_PROD_TBL_LANG	PSTREELEAF
PS_BUS_UNIT_TBL_FS	PS_FUND_TBL	PS_PRODUCT_TBL	PSTREENODE
PS_BUS_UNIT_TBL_GL	PS_GL_ACCOUNT_LANG	PS_PROGRAM_LANG	PSTREESTRCT
PS_BUS_UNIT_TBL_HR	PS_GL_ACCOUNT_TBL	PS_PROGRAM_TBL	PSXLATITEM
PS_CAL_ADJP_TBL	PS_HPYPB_ACCT_LN (Read and write privileges are required.)	PS_PROJECT_TBL	PSXLATITEMLANG
PS_CAL_DEFN_TBL	PS_JOB	PS_REC_GROUP_REC	

Table / View Name	Table / View Name	Table / View Name	Table / View Name
PS_CAL_DETP_TBL	PS_JOBCODE_TBL	PS_REC_GROUP_TBL	

## PeopleSoft Human Capital Management Source System Tables

These PeopleSoft Human Capital Management source system tables are used by ERP Integrator. All tables require read privileges.

Table / View Name	Table / View Name	Table / View Name	Table / View Name
PS_ACCT_CD_TBL	PS_CHARTFIELD3_TBL	PS_JOB_EARNS_DIST	PS_SAL_PLAN_TBL
PS_AFFILIATE_VW	PS_CLASS_CF_TBL	PS_JOBCODE_TBL	PS_SAL_STEP_TBL
PS_ALTACCT_TBL	PS_DEPT_BUDGET_ERN	PS_LOCATION_TBL	PS_SET_CNTRL_REC
PS_BENEF_PLAN_TBL	PS_DEPT_CF_TBL	PS_NAMES	PS_UNION_TBL
PS_BP_JOB	PS_DEPT_TBL	PS_OPER_UNIT_TBL	PSOPTIONS
PS_BUD_REF_TBL	PS_EARNINGS_TBL	PS_PAYGROUP_TBL	PSRECFIELD
PS_BUS_UNIT_TBL_FS	PS_FREQUENCY_TBL	PS_POSITION_DATA	PSXLATITEM
PS_BUS_UNIT_TBL_GL	PS_FUND_TBL	PS_PRODUCT_TBL	PSXLATITMLANG
PS_BUS_UNIT_TBL_HR	PS_GL_ACCOUNT_TBL	PS_PROGRAM_TBL	
PS_CHARTFIELD1_TBL	PS_GL_ACCOUNT_VW	PS_PROJECT_TBL	
PS_CHARTFIELD2_TBL	PS_JOB	PS_SAL_GRADE_TBL	



# ERP Integrator Staging Tables

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## ERP Integrator Staging Tables

### Subtopics

- [Staging Tables Used for Import from Source](#)
- [Data Tables Used for Drill Through](#)
- [Views Used for Export to Target](#)

The following sections describe ERP Integrator staging tables.

### Staging Tables Used for Import from Source

Table / View Name	Description
TDATASEG_T	<p>Temporary data table used for transforming data from source to target in a data rule execution. To ensure read consistency, data is extracted from the corresponding staging table (for example, AIF_EBS_GL_BALANCES_STG, AIF_EBS_GL_DAILY_BAL_STG, or AIF_PS_LEDGER) and copied to TDATASEG_T (partitioned by LOADID), which is then used for transforming source data to target data based on the data mappings specified in TDATAMAP_T.</p> <p>If you have selected to only “Import from Source,” you can query this table by LOADID to view the data transformations that were applied during the data rule execution.</p>
TDATASEGW	<p>Temporary data table used for transforming write-back data from source to target in a write-back rule execution. Write-back data is extracted from the temporary staging table (AIF_WRITEBACK_ESS_DATA_T) and copied over to TDATASEGW (partitioned by LOADID), which is then used for transforming source data to target data based on the data mappings specified in TDATAMAP_T.</p> <p>If you have selected to only “Import from Source,” you can query this table by LOADID to view the data transformations that were applied during the write-back rule execution.</p>

## Data Tables Used for Drill Through

Table / View Name	Description
TDATASEG	Audit table describing the data transformations in a data rule execution. Only in a successful data rule execution will data transformations stored in TDATASEG_T be copied over to TDATASEG.

## Views Used for Export to Target

Table / View Name	Description
AIF_HS_BALANCES	Interface view used for exporting data to a target application in a data rule execution. This view queries the TDATASEG_T table directly by summarizing the target amounts across the unique target dimension member combinations.
AIF_EBS_GL_INTERFACE_V	Interface view used for exporting data back to the Fusion and E-Business Suite general ledger system in a write-back rule execution. This view queries the TDATASEGW table directly by summarizing the target amounts across the unique target segment value combinations.
AIF_PS_GL_INTERFACE_V	Interface view used for exporting data back to the PeopleSoft Enterprise Financial Management system in a write-back rule execution. This view queries the TDATASEGW table directly by summarizing the target amounts across the unique target ChartField value combinations.

## PeopleSoft Human Capital Management Staging Tables

### Subtopics

- [PS90HCM](#)
- [CHARTFIELD](#)

The following sections describe the columns in each PeopleSoft Human Capital Management staging table used by ERP Integrator.

### PS90HCM

**Table 21** AIF\_PS\_POSITION\_DATA\_STG Table

Column Name	Column Description
DESCR	Position Description

**Table 22** AIF\_PS\_JOBCODE\_TBL\_STG Table

Column Name	Column Description
COMP_FREQUENCY	Compensation Frequency

<b>Column Name</b>	<b>Column Description</b>
DESCR	Description
EFFDT	Effective Date
EFF_STATUS	Status
STD_HOURS	Standard Hours

**Table 23** AIF\_PS\_JOB\_STG Table

<b>Column Name</b>	<b>Column Description</b>
ABSENCE_SYSTEM_CD	Absence System
ACCDNT_CD_FRA	Work Accident Code
ACCT_CD	Account Code
ADDS_TO_FTE_ACTUAL	Adds to FTE Actual Count
ANNL_BENEF_BASE_RT	Annual Benefit Base Rate
APPT_TYPE	Appointment Type
ASGN_END_DT	Assignment End Date
ASGN_START_DT	Assignment Start Date
AUTO_END_FLG	Auto End Job
BARG_UNIT	Bargaining Unit
BAS_ACTION	Benefits Administration Action
BAS_GROUP_ID	Benefits Administration Group ID
BENEFIT_SYSTEM	Benefits System
BORDER_WALKER	Cross Border Worker
CHANGE_AMT	Change Amount
CHANGE_PCT	Change Percent
CLASS_INDC	Classified/Unclassified Indicator
COBRA_ACTION	COBRA Action
COMPANY	Company
COMPRATE	Compensation Rate
COMP_FREQUENCY	Compensation Frequency
CONTRACT_NUM	Contract Number

<b>Column Name</b>	<b>Column Description</b>
CTG_RATE	Category Rate
CURRENCY_CD1	Currency Code 1
CUR_RT_TYPE	Currency Rate type
DAILY_RT	Daily Rate
DEPT_ENTRY_DT	Department Entry Date
DIRECTLY_TIPPED	Directly Tipped
EARN_DIST_TYPE	Earnings Distribution Type
EEO_CLASS	EEO Class
ELIG_CONFIG1	Eligibility Configuration Field 1
ELIG_CONFIG2	Eligibility Configuration Field 2
ELIG_CONFIG3	Eligibility Configuration Field 3
ELIG_CONFIG4	Eligibility Configuration Field 4
ELIG_CONFIG5	Eligibility Configuration Field 5
ELIG_CONFIG6	Eligibility Configuration Field 6
ELIG_CONFIG7	Eligibility Configuration Field 7
ELIG_CONFIG8	Eligibility Configuration Field 8
ELIG_CONFIG9	Eligibility Configuration Field 9
EMPL_CTG	Employee Category
EMPL_CTG_L1	Employee Subcategory
EMPL_CTG_L2	Employee Subcategory 2
ENCUMB_OVERRIDE	Encumbrance Override
ENTRY_DATE	Entry Date
ESTABID	Establishment ID
EXEMPT_HOURS_MONTH	Exempted Hours Month
EXEMPT_JOB_LBR	Exempted
EXPECTED_END_DATE	Expected Job End Date
EXPECTED_RETURN_DT	Expected Return Date
FLSA_STATUS	FLSA Status



<b>Column Name</b>	<b>Column Description</b>
FORCE_PUBLISH	Force Publish
FUNCTION_CD	Function Code
GL_PAY_TYPE	GL Pay type
GP_ASOF_DT_EXG_RT	Use Rate As Of
GP_DFLT_CURRTYP	Use Pay Group Rate Type
GP_DFLT_ELIG_GRP	Use Pay Group Eligibility
GP_DFLT_EXRTDT	Use Pay Group As Of Date
GP_ELIG_GRP	Eligibility Group
GP_PAYGROUP	Pay Group
GRADE_ENTRY_DT	Salary Grade Entry Date
HIRE_DT	Hire Date
HOLIDAY_SCHEDULE	Holiday Schedule
HOURLY_RT	Hourly Rate
HOURLY_RT_FRA	Hourly Rate France
HR_STATUS	HR Status
INTERCTR_WRKS_CNCL	Works Council Role Role that the worker has in the union group
JOB_DATA_SRC_CD	Job Source Code
JOB_ENTRY_DT	Job Entry Date
JOB_INDICATOR	Job Indicator
LABOR_AGREEMENT	Labor Agreement
LABOR_FACILITY_ID	Labor Facility ID
LABOR_TYPE_GER	Labor Type Germany
LASTUPDDTTM	Last Update Date/Time
LASTUPDOPRID	Last Update User ID
LAST_DATE_WORKED	Last Date Worked
LAST_HIRE_DT	Last Hire Date
LAYOFF_EXEMPT_FLAG	Layoff Exempt Flag
LAYOFF_EXEMPT_RSN	Layoff Exempt Reason

<b>Column Name</b>	<b>Column Description</b>
LBR_FAC_ENTRY_DT	Labor Facility Entry Date
LDW_OVR	Override Last Date Worked
LST_ASGN_START_DT	Last Assignment Start Date
LUMP_SUM_PAY	Lump Sum Pay
MAIN_APPT_NUM_JPN	Main Appointment Number
MATRICULA_NBR	Matricula Number
MONTHLY_RT	Monthly Rate
OFFICER_CD	Officer Code
PAID_FTE	Paid FTE
PAID_HOURS	Paid Hours
PAID_HRS_FREQUENCY	Paid Hours Frequency
PAYGROUP	Pay Group
PAY_SYSTEM_FLG	Pay System Flag
PAY_UNION_FEE	Pay Union Fee
PERFORM_GROUP_GER	Perform Group Germany
PER_ORG	Organizational Relationship
POI_TYPE	Person of Interest Type
POSITION_ENTRY_DT	Position Entry Date
POSITION_OVERRIDE	Position Override
POSN_CHANGE_RECORD	Position Change Record
PRORATE_CNT_AMT	Prorate Contract Change Amount
REG_REGION	Regulatory Region
REPORTS_TO	Reports To
SETID_DEPT	SetID Department
SETID_JOBCODE	SetID Job Code
SETID_LBR_AGRMNT	SetID Labor Agreement
SETID_LOCATION	SetID Location
SETID_SALARY	SetID Salary

<b>Column Name</b>	<b>Column Description</b>
SETID_SUPV_LVL	SetID Supervisor Level
SHIFT	Shift
SHIFT_FACTOR	Shift Factor
SHIFT_RT	Shift Rate
SOC_SEC_RISK_CODE	Social Security Risk Code
SPK_COMM_ID_GER	Spokesman Committee ID
STD_HRS_FREQUENCY	Standard Hours Frequency
STEP_ENTRY_DT	Step Entry Date
SUPERVISOR_ID	Supervisor ID
SUPV_LVL_ID	Supervisor Level ID
TARIFF_AREA_GER	Tariff Area Germany
TARIFF_GER	Tariff Germany
TAX_LOCATION_CD	Tax Location Code
TERMINATION_DT	Termination Date
UNION_FEE_AMOUNT	Union Fee Amount
UNION_FEE_END_DT	Union Fee End Date
UNION_FEE_START_DT	Union Fee Start Date
UNION_FULL_PART	Union Participation
UNION_POS	Union Position
UNION_SENIORITY_DT	Union Seniority Date
VALUE_1_FRA	Value 1
VALUE_2_FRA	Value 2
VALUE_3_FRA	Value 3
VALUE_4_FRA	Value 4
VALUE_5_FRA	Value 5
WORK_DAY_HOURS	Work Day Hours
WPP_STOP_FLAG	Stop Wage Progression
WRKS_CNCL_FUNCTION	Work Council Function

Column Name	Column Description
WRKS_CNCL_ROLE_CHE	Work Council Role

**Table 24** AIF\_PS\_POSITION\_DATA\_STG Table

Column Name	Column Description
ADDS_TO_FTE_ACTUAL	Adds to FTE Actual Count
BARG_UNIT	Bargaining Unit
CLASS_INDC	Classified/Unclassified Indicator
COMPANY	Company
CONFIDENTIAL_POSN	Confidential Position
COUNTRY_CODE	Country Code
DESCRSHORT	Position Short Description
EG_ACADEMIC_RANK	Academic Rank
EG_GROUP	Service Calculation Group
ENCUMBER_INDC	Encumbrance Indicator
ENCUMB_SAL_AMT	Encumbrance Salary Amount
ENCUMB_SAL_OPTN	Encumbrance Salary Option
FLSA_STATUS	FLSA Status
FRI_HRS	Friday Hours
GRADE_FROM	Grade From
GRADE_TO	Grade To
GVT_AUDITED_BY_ID	Position Audited By
GVT_COMP_AREA	Competitive Area
GVT_COMP_LEVEL	Competitive Level
GVT_DRUG_TEST_REQ	Drug Test (Applicable)
GVT_DT_POSN_ESTAB	Date Position Established
GVT_EXEC_FIN_DISCL	Executive Financial Disclosure
GVT_FUND_SOURCE	Fund Source
GVT_INTEL_POSN	Intelligence Position
GVT_LAST_AUDIT_DT	Position Audit Date

<b>Column Name</b>	<b>Column Description</b>
GVT_LEO_POSITION	LEO/Fire Position
GVT_MAINT_REVIEWCD	Maintenance Review
GVT_MANTREV_RESULT	Maintenance Review Results
GVT_MOB_POSN_IND	Mobility Position
GVT_NFC_FUNCTN_CD	NFC Function Code (NFC - National Finance Center)
GVT_NFC_PI_IND_OVR	Override NFC Indicator
GVT_NTE_DATE	Not to Exceed Date
GVT_OBLIGATED_TO	Obligated To ID
GVT_OBLIG_EXPIR_DT	Obligation Expiration
GVT_OCC_SERIES	Occupational Series
GVT_ORG_NUMCD1	Numeric Code 1
GVT_ORG_NUMCD2	Numeric Code 2
GVT_ORG_NUMCD3	Numeric Code 3
GVT_ORG_NUMCD4	Numeric Code 4
GVT_ORG_NUMCD5	Numeric Code 5
GVT_ORG_NUMCD6	Numeric Code 6
GVT_ORG_NUMCD7	Numeric Code 7
GVT_ORG_SUBAGENCY	Organizational Structure
GVT_ORG_TTL_CD	Organization Position Title Code
GVT_ORG_TTL_DESCR	Organization Position Title
GVT_PAREN_TITLE	Parenthetical Title
GVT_PAR_NBR	Personnel Action Request Number
GVT_PAY_PLAN	Pay Plan
GVT_PERF_PLAN	Performance Plan
GVT_PI_UPD_IND	PI Update Indicator
GVT_POI	Personnel Office ID
GVT_POSN_LOC	Position Location
GVT_POSN_OCCUPIED	Position Occupied

<b>Column Name</b>	<b>Column Description</b>
GVT_POSN_SENS_CD	Sensitivity Code
GVT_PRESIDENT_APPT	Presidential Appt Position
GVT_PROC_INTEG_PSN	Procurement Integration Position
GVT_STAFF_LINE	Staff/Line Position
GVT_STATUS_TYPE	Status Type
GVT_SUB_AGENCY	Sub-Agency
GVT_TARGET_GRADE	Target Grade
GVT_VACY_REVW_CD	Vacancy Review Code
GVT_WIP_STATUS	Work-In-Progress Status
GVT_WORK_SCHED	Work Schedule
HEALTH_CERTIFICATE	Health Certificate
INCLUDE_SALPLN_FLG	Include Salary Plan Flag
JOB_SHARE	Job Share
KEY_POSITION	Key Position
LANGUAGE_SKILL	Language Skill
LASTUPDDTTM	Last Update Date/Time
LASTUPDOPRID	Last Update User ID
LOCATION	Location
MAIL_DROP	Mail Drop
MANAGER_LEVEL	Manager Level
MILITARY_SERVICE	Military Service
MIL_RANK	Military Rank
MIL_SVC_COMP_CD	Military Service Component
MON_HRS	Monday Hours
ORGCODE	Organization Hierarchy Code
ORGCODE_FLAG	Organization Hierarchy Flag
PHONE	Phone
PKG_RULE_ID	Package Rule ID

<b>Column Name</b>	<b>Column Description</b>
PKG_TEMPLATE_ID	Package Template ID
POSITION_POOL_ID	Position Pool ID
REG_REGION	Regulatory Region
REPORTS_TO	Reports To
REPORT_DOTTED_LINE	Report Dotted Line
SAT_HRS	Saturday Hours
SEASONAL	Seasonal
SEC_CLEARANCE_TYPE	Security Clearance Type
SHIFT	Shift
SIGN_AUTHORITY	Signing Authority
STATUS_DT	Status Date
STD_HRS_FREQUENCY	Standard Hours Frequency
STEP_FROM	Step From
STEP_TO	Step To
SUN_HRS	Sunday Hours
SUPV_LVL_ID	Supervisory Level ID
THURS_HRS	Thursday Hours
TRN_PROGRAM	Training Program
TUES_HRS	Tuesday Hours
UPDATE_INCUMBENTS	Update Incumbents
WED_HRS	Wednesday Hours

**Table 25** AIF\_PS\_SAL\_GRADE\_TBL\_STG Table

<b>Column Name</b>	<b>Column Description</b>
DESCR	Grade Description
DESCRSHORT	Grade Description Short
EFFDT	Effective Date
EFF_STATUS	Effective Status
ELIGIBILITY_POINTS	Eligibility Points

<b>Column Name</b>	<b>Column Description</b>
EMPL_CTG	Employee Category
EMPL_CTG_L1	Employee Subcategory
EMPL_CTG_L2	Employee Subcategory 2
GRADE	Grade
GRADE_TITLE_JPN	Grade Title Japan
GVT_MAX_RT_BIWK	Maximum Pay Rate - Bi-weekly
GVT_MID_RT_BIWK	Midpoint Pay Rate - Bi-weekly
GVT_MIN_RT_BIWK	Minimum Pay Rate - Bi-weekly
LABOR_AGREEMENT	Labor Agreement
MAX_YRS_GRADE	Max Years Grade
MIN_GRD_AGE	Minimum Grade Age
MIN_YRS_GRADE	Minimum Years Grade
REG_REGION	Regulatory Region
REVIEW_COUNT	Review Count
SALARY_MATRIX_CD	Salary Matrix Code
SAL_ADMIN_PLAN	Salary Administration Plan
SETID	SetID
STEP_INCREM_ACCUM	Step Increment Accumulated
STEP_INCREM_TYPE	Step Increment Type

**Table 26** AIF\_PS\_SAL\_STEP\_TBL\_STG Table

<b>Column Name</b>	<b>Column Description</b>
APS_MAX_CLS_AUS	Maximum Classification
APS_MIN_CLS_AUS	Minimum Classification
CLASSN_CURRENT_AUS	Job Classification
DAILY_RT	Daily Rate
EFFDT	Effective Date
GRADE	Grade
GVT_BIWEEKLY_RT	Bi-weekly Rate



<b>Column Name</b>	<b>Column Description</b>
GVT_INCREM_DAYS	Days to Next Step Increment
GVT_INCREM_WEEKS	Weeks to Next Step Increment
GVT_STEP	US Federal Step
GVT_WGI_ADJ	Within Grade Increase (WGI) Adjustment
INCREM_HOURS	Increment Hours
INCREM_MONTHS	Increment Months
SAL_ADMIN_PLAN	Salary Administration Plan
SETID	SetID
STEP_DESCR	Step Description

**Table 27** AIF\_PS\_BP\_JOB\_STG Table

<b>Column Name</b>	<b>Column Description</b>
ACCDNT_CD_FRA	Account Code France
ACCT_CD	Account Code
ACTION	Action
ACTION_DT	Action Date
ACTION_REASON	Action Reason
ADDS_TO_FTE_ACTUAL	Adds to FTE Actual Count
ANNL_BENEF_BASE_RT	Annual Benefit Base Rate
ANNL_BEN_BASE_OVRD	Annual Benefit Base Overhead
ANNUAL_RT	Annual Rate
APPT_TYPE	Appointment Type
BARG_UNIT	Bargaining Unit
BAS_ACTION	Benefits Administration Action
BAS_GROUP_ID	Benefits Administration Group ID
BENEFIT_PROGRAM	Benefit Program
BENEFIT_SYSTEM	Benefit System
BEN_STATUS	Benefit Status
BORDER_WALKER	Cross Border Worker

<b>Column Name</b>	<b>Column Description</b>
BUSINESS_UNIT	Business Unit
CHANGE_AMT	Change Amount
CHANGE_PCT	Change Percent
CLASS_INDC	Classified/Unclassified Indicator
COBRA_ACTION	COBRA Action
COMPANY	Company
COMPRATE	Compensation Rate
COMP_FREQUENCY	Compensation Frequency
CONTRACT_NUM	Contract Number
CTG_RATE	Category Rate
CURRENCY_CD	Currency Code
CURRENCY_CD1	Currency Code 1
CUR_RT_TYPE	Currency Rate type
DAILY_RT	Daily Rate
DEPTID	Department
DEPT_ENTRY_DT	Department Entry Date
DIRECTLY_TIPPED	Directly Tipped
EARN_DIST_TYPE	Earnings Distribution Type
EEO_CLASS	EEO_Class
EFFDT	Effective Date
EFFSEQ	Effective Sequence
ELIG_CONFIG1	Eligibility Configuration Field 1
ELIG_CONFIG2	Eligibility Configuration Field 2
ELIG_CONFIG3	Eligibility Configuration Field 3
ELIG_CONFIG4	Eligibility Configuration Field 4
ELIG_CONFIG5	Eligibility Configuration Field 5
ELIG_CONFIG6	Eligibility Configuration Field 6
ELIG_CONFIG7	Eligibility Configuration Field 7

<b>Column Name</b>	<b>Column Description</b>
ELIG_CONFIG8	Eligibility Configuration Field 8
ELIG_CONFIG9	Eligibility Configuration Field 9
EMPLID	Employee ID
EMPL_CLASS	Employee Classification
EMPL_CTG	Employee Category
EMPL_CTG_L1	Employee Subcategory
EMPL_CTG_L2	Employee Subcategory 2
EMPL_RCD	Employee Record Number
EMPL_STATUS	Employee Status
EMPL_TYPE	Employee Type
ENCUMB_OVERRIDE	Encumbrance Override
ENTRY_DATE	Entry Date
ESTABID	Establishment ID
EXEMPT_HOURS_MONTH	Exempted Hours Month
EXEMPT_JOB_LBR	Exempted
FICA_STATUS_EE	FICA Status
FLSA_STATUS	FLSA Status
FORCE_PUBLISH_FTE	Force Publish FTE
FULL_PART_TIME	Full or Part-Time
FUNCTION_CD	Function Code
GL_PAY_TYPE	GL Pay type
GP_ASOF_DT_EXG_RT	Use Rate As Of
GP_DFLT_CURRTYP	Use Pay Group Rate Type
GP_DFLT_ELIG_GRP	Use Pay Group Eligibility
GP_DFLT_EXRTDT	Use Pay Group As Of Date
GP_ELIG_GRP	Eligibility Group
GP_PAYGROUP	Pay Group
GRADE	Grade

<b>Column Name</b>	<b>Column Description</b>
GRADE_ENTRY_DT	Grade Entry Date
GVT_ANNL_RT_NO_LOC	Annuity Rate
GVT_ANNUIITY_OFFSET	Annuity Offset
GVT_ANNUIT_COM_DT	Annuity Date
GVT_ANN_IND	Annuity
GVT_BASIC_LIFE_RED	Basic Life Red
GVT_BIWEEKLY_RT	Biweekly Rate
GVT_BW_RT_NO_LOC	Biweekly Rate No Location
GVT_CHANGE_FLAG	Change Flag
GVT_COMPRATE	Compensate Rate
GVT_CONT_EMPLID	Contract Employee ID
GVT_CSRS_FROZN_SVC	CSRS Frozen Service
GVT_DAILY_RT	Daily Rate
GVT_DED_PRORT_DT	DED Prorate Date
GVT_DETL_POSN_NBR	Position Number
GVT_DLY_RT_NO_LOC	Daily Rate No Location
GVT_EFFDT	Effective Date
GVT_EFFDT_PROPOSED	Effective Date Proposed
GVT_ELIG_FEHB	Eligibility FEHB
GVT_FEGLI	FEGLI Code
GVT_FEGLI_BASC_PCT	FEGLI Basic Percent
GVT_FEGLI_LIVING	FEGLI Living Benefits
GVT_FEGLI_OPT_PCT	FEGLI Opted Percent
GVT_FEHB_DT	FEHB Date
GVT_FEHB_PCT	FEHB Percent
GVT_FERS_COVERAGE	FERS Coverage
GVT_HRLY_RT_NO_LOC	Hourly Rate No Location
GVT_LEG_AUTH_1	Legal Authority 1

<b>Column Name</b>	<b>Column Description</b>
GVT_LEG_AUTH_2	Legal Authority 2
GVT_LEO_POSITION	LEO/Fire Position (LEO - Law enforcement officer)
GVT_LIVING_AMT	Living Amount
GVT_LOCALITY_ADJ	Locality Adjustment
GVT_MNLY_RT_NO_LOC	Monthly Rate No Location
GVT_NID_CHANGE	NID Change
GVT_NOA_CODE	NOA Code
GVT_OTH_PAY_CHG	Other Pay Change
GVT_PAR_AUTH_D1	Authority 1 Description - Part 1
GVT_PAR_AUTH_D1_2	Authority 1 Description - Part 2
GVT_PAR_AUTH_D2	Authority 2 Description - Part 1
GVT_PAR_AUTH_D2_2	Authority 2 Description - Part 1
GVT_PAR_NTE_DATE	NTE Date
GVT_PAY_BASIS	Pay Basis
GVT_PAY_FLAG	Pay Flag
GVT_PAY_PLAN	Pay Plan
GVT_PAY_RATE_DETER	Pay Rate Determinant
GVT_PI_UPD_IND	PI Update Indicator
GVT_POI	Personnel Office ID
GVT_POSN_OCCUPIED	Position Occupied
GVT_PREV_RET_COVRG	Previous Retirement Coverage
GVT_RETIRE_PLAN	Retire Plan
GVT_RETRO_BSE_FLAG	Retrospective Base Flag
GVT_RETRO_DED_FLAG	Retrospective Deduction Flag
GVT_RETRO_FLAG	Retrospective Flag
GVT_RETRO_JOB_FLAG	Retrospective Job Flag
GVT_ROUTE_NEXT	Route to Next
GVT_RTND_GRADE	Retained Grade

<b>Column Name</b>	<b>Column Description</b>
GVT_RTND_GVT_STEP	Retained Government Step
GVT_RTND_PAY_PLAN	Retained Pay Plan
GVT_RTND_SAL_PLAN	Retained Salary Plan
GVT_RTND_STEP	Retained Step
GVT_S113G_CEILING	S113G Ceiling
GVT_SF52_NBR	SF52 Number
GVT_STATUS_TYPE	Status Type
GVT_STEP	Step
GVT_SUB_AGENCY	Sub Agency
GVT_TRANS_NBR	Transaction Number
GVT_TRANS_NBR_SEQ	Transaction Number Sequence
GVT_TSP_UPD_IND	TSP Status
GVT_TYPE_OF_APPT	Type of Appointment
GVT_WIP_STATUS	WIP Status
GVT_WORK_SCHED	Work Schedule
GVT_XFER_FROM_AGCY	Transfer From Agency
GVT_XFER_TO_AGCY	Transfer To Agency
HOLIDAY_SCHEDULE	Holiday Schedule
HOURLY_RT	Hourly Rate
HOURLY_RT_FRA	Hourly Rate France
INTERCTR_WRKS_CNCL	Works Council Role
JOBCODE	Job Code
JOB_DATA_SRC_CD	Job Source Code
JOB_ENTRY_DT	Job Entry Date
JOB_INDICATOR	Job Indicator
LABOR_AGREEMENT	Labor Agreement
LABOR_FACILITY_ID	Labor Facility ID
LABOR_TYPE_GER	Labor Type Germany

<b>Column Name</b>	<b>Column Description</b>
LAYOFF_EXEMPT_FLAG	Layoff Exempt Flag
LAYOFF_EXEMPT_RSN	Layoff Exempt Reason
LBR_FAC_ENTRY_DT	Labor Facility Entry Date
LOCATION	Location
LUMP_SUM_PAY	Lump Sum Pay
MAIN_APPT_NUM_JPN	Main Appointment Number
MATRICULA_NBR	Matricula Number
MONTHLY_RT	Monthly Rate
OFFICER_CD	Officer Code
PAID_FTE	Paid FTE
PAID_HOURS	Paid Hours
PAID_HRS_FREQUENCY	Paid Hours Frequency
PAYGROUP	Pay Group
PAY_SYSTEM_FLG	Pay System Flag
PAY_UNION_FEE	Pay Union Fee
PERFORM_GROUP_GER	Perform Group Germany
POSITION_ENTRY_DT	Position Entry Date
POSITION_NBR	Position Number
POSITION_OVERRIDE	Position Override
POSN_CHANGE_RECORD	Position Change Record
PRORATE_CNT_AMT	Prorate Contract Change Amount
REG_REGION	Regulatory Region
REG_TEMP	Regular or Temporary
REPORTS_TO	Reports To
SAL_ADMIN_PLAN	Salary Administration Plan
SETID_DEPT	SetID Department
SETID_JOBCODE	SetID Job Code
SETID_LBR_AGRMNT	SetID Labor Agreement

<b>Column Name</b>	<b>Column Description</b>
SETID_LOCATION	SetID Location
SETID_SALARY	SetID Salary
SHIFT	Shift
SHIFT_FACTOR	Shift Factor
SHIFT_RT	Shift Rate
SOC_SEC_RISK_CODE	Social Security Risk Code
SPK_COMM_ID_GER	Spokesman Committee ID
STD_HOURS	Standard Hours
STD_HRS_FREQUENCY	Standard Hours
STEP	Frequency Step
STEP_ENTRY_DT	Step Entry Date
SUPERVISOR_ID	Supervisor ID
TARIFF_AREA_GER	Tariff Area Germany
TARIFF_GER	Tariff Germany
TAX_LOCATION_CD	Tax Location Code
UNION_CD	Union Code
UNION_FEE_AMOUNT	Union Fee Amount
UNION_FEE_END_DT	Union Fee End Date
UNION_FEE_START_DT	Union Fee Start Date
UNION_FULL_PART	Union Participation
UNION_POS	Union Position
UNION_SENIORITY_DT	Union Seniority Date
UPDATE_PAYROLL	Update Payroll
VALUE_1_FRA	Value 1
VALUE_2_FRA	Value 2
VALUE_3_FRA	Value 3
VALUE_4_FRA	Value 4
VALUE_5_FRA	Value 5



Column Name	Column Description
WORK_DAY_HOURS	Work Day Hours
WPP_STOP_FLAG	Stop Wage Progression
WRKS_CNCL_FUNCTION	Work Council Function
WRKS_CNCL_ROLE_CHE	Work Council Role

## CHARTFIELD

**Table 28** Table Type—CHARTFIELD

Table Name	Column Name	Column Description
AIF_PS_GL_ACCOUNT_TBL_STG	ACCOUNT	Account
AIF_PS_AFFILIATE_VW_STG	AFFILIATE	Affiliate
AIF_PS_ALTACCT_TBL_STG	ALTACCT	Alternate Account
AIF_PS_BUD_REF_TBL_STG	BUDGET_REF	Budget Ref
AIF_PS_CHARTFIELD1_TBL_STG	CHARTFIELD1	Chartfield 1
AIF_PS_CHARTFIELD2_TBL_STG	CHARTFIELD2	Chartfield 2
AIF_PS_CHARTFIELD3_TBL_STG	CHARTFIELD3	Chartfield 3
AIF_PS_CLASS_CF_TBL_STG	CLASS_FLD	Class
AIF_PS_DEPT_CF_TBL_STG	DEPTID_CF	Department
AIF_PS_FUND_TBL_STG	FUND_CODE	Fund Code
AIF_PS_OPER_UNIT_TBL_STG	OPERATING_UNIT	Operating Unit
AIF_PS_PRODUCT_TBL_STG	PRODUCT	Product
AIF_PS_PROGRAM_TBL_STG	PROGRAM_CODE	Program
AIF_PS_PROJECT_TBL_STG	PROJECT	Project





# Working with Open Interface Adapters

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## Setting up the Open Interface Adapter

The Open Interface Adapter is used to load data from any source system to EPM Applications. ERP Integrator includes an open interface table that can be populated with data from any source system. Customers can choose the tool of choice to load the open interface table. Customers can also customize the Open Interface Adapter to extract the data from the source system and populate the open interface table using ODI.

**Note:** Using ODI to extract data from a custom source would require ODI License. ERP Integrator includes a restricted use ODI license to extract data from the supported source systems.

## Using the Open Interface Table

The open interface table is called AIF\_OPEN\_INTERFACE. The table definition is as follows:

**Table 29** AIF\_OPEN\_INTERFACE Table Definitions

Column Name	Data Type	Comment
BATCH_NAME	VARCHAR2(200 BYTE)	Required. Used to filter the data
YEAR	NUMBER(15,0)	Optional. Required if period mapping is Explicit
PERIOD	VARCHAR2(30 BYTE)	Optional. Required if period mapping is Explicit
PERIOD_NUM	NUMBER(15,0)	Optional. Required if period mapping is Explicit
CURRENCY	VARCHAR2(10 BYTE)	Required.
DATAVIEW	VARCHAR2(8 BYTE)	Used for HFM applications. Assign value of YTD or Periodic. Default value is YTD
DESC1	VARCHAR2(75 BYTE)	Optional. Mapped to DESC1
DESC2	VARCHAR2(75 BYTE)	Optional. Mapped to DESC2

Column Name	Data Type	Comment
AMOUNT	NUMBER(29,12)	Required. Mapped to AMOUNT
AMOUNT_YTD	NUMBER(29,12)	Optional. Mapped to AMOUNT_YTD
AMOUNT_PTD	NUMBER(29,12)	Optional. Mapped to AMOUNT_PTD
COL01	VARCHAR2(75 BYTE)	Input Source Column 1
COL02	VARCHAR2(75 BYTE)	Input Source Column 2
COL03	VARCHAR2(75 BYTE)	Input Source Column 3
....		
COL30	VARCHAR2(75 BYTE)	Input Source Column 30
ATTR1	VARCHAR2(20 BYTE)	Optional. Mapped to ATTR1
ATTR2	VARCHAR2(20 BYTE)	Optional. Mapped to ATTR2
...		
ATTR13	VARCHAR2(20 BYTE)	Optional Mapped to ATTR13
ATTR14	VARCHAR2(20 BYTE)	Reserved. Do not map.

## Installing the Open Interface Adapter

► To import the Open Interface scenario using ODI Studio:

- 1 If ERP Integrator is running on Oracle, define a logical schema **AIF\_TGT\_ORACLE**, and associate the ERP Integrator physical schema with this logical schema.

**Note:** The ERP Integrator physical schema is associated with AIF\_TGT and AIF\_TGT\_ORACLE.

- 2 From the **odi\Adapters** directory, import the Model Folder **ERPI Target Model**.
- 3 From the **odi\Adapters\OpenInterface** directory, import the **Model Folder** and **Project** for Open Interface Adapter.

► To import the Open Interface Adapter using the ERP Integrator:

- 1 From **odi\Adapters\OpenInterface**, copy the **Open\_Interface\_Adapter.xml** to a directory under the Application Root directory.
- 2 Launch ERP Integrator.
- 3 In the **Tasks** pane, under **Setup**, select **Source Adapter**.
- 4 From the **Source Adapter Summary** task bar, select **Import**.

The Specify file to import screen is displayed.

- To import a source adapter:
- 1 In the **Tasks** pane, under **Setup**, select **Source Adapter**.  
The Source Adapter screen is displayed.
  - 2 From the **Source Adapter Summary** task bar, select **Import**.  
The Specify file to import screen is displayed.
  - 3 Navigate to the **Open\_interface\_Adapter.xml** file to import and click **OK**.  
The Open File screen is displayed.
  - 4 Save the **Open\_interface\_Adapter.xml** file to a directory of your choice.

## Loading Source Data using Custom Loaders

- To load source data using custom loaders:
- 1 Identify the source data to be loaded and decide the columns you want to populate in the Open Interface table.
  - 2 Decide to load multiple periods or a single period at a time. If you are plan to load multiple periods, then you must define period mappings in the Source Period Mapping screen. If you are plan to load a single period at a time, then define period mappings or load all data to the POV period.
  - 3 Define a new source system of the type **Others**.
  - 4 On the **Source Adapter** screen, copy the **Open Interface Adapter** to a new adapter.  
For the new adapter:
    - Provide a new adapter key. The adapter key can be 10 characters long. Once it has been created, it cannot be modified.
    - Make necessary modifications to Display Names. This Display Name is shown in the Import Format and Data Load Workbench.
  - 5 On the **Import Format** screen, define a new import format for importing the data.  
Select the open source systems defined in step 3 and the customized adapter defined in step 4. Map the source columns to the appropriate target dimensions.
  - 6 When the import format mappings are complete, screen, select **Regenerate ODI Scenario**.  
This step generates the ODI Scenario based on the import format mappings.
  - 7 On the **Locations** screen, define a new location using the import format.
  - 8 On the **Data Rule** screen, define the new data rule.  
Select the appropriate period mapping method. Provide a value for the batch name you will use for populating the data in the table.
  - 9 Execute the data rule using one of three methods:
    - Data Rule Execution
    - Workbench

- Batch Execution Script

## Customizing ODI to Load Data from a Custom Source

- ▶ To use the ODI Studio:
  - 1 Copy the Open Interface Project.
  - 2 Add necessary data model for the custom source.
  - 3 Add necessary interfaces to populate the open interface table.
- ▶ To use the ERP Integrator Source Adapter user interface, copy the Open Interface Adapter to a new adapter. For the new adapter, provide a new adapter key. The adapter key can be 10 characters long. Once it has been created, it cannot be modified. Make necessary modifications to Display Names. This Display Name is shown in the Import Format and Data Load Workbench.



# Accessibility

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## Enabling Accessibility for ERP Integrator

ERP Integrator accessibility is enabled when you enable the screen reader support for EPM Workspace preferences and then navigate to ERP Integrator.

➤ To enable accessibility:

- 1 From Oracle Enterprise Performance Management Workspace, Fusion Edition, select **File**, then **Preferences**.
- 2 From Accessibility Mode, select **Enable Screen Reader Support**.
- 3 Click **OK**.

## Abbreviations

The Oracle Hyperion Financial Data Quality Management ERP Integration Adapter for Oracle Applications user interface uses these abbreviations:

- ODI is Oracle Data Integrator
- ERP is Enterprise Resource Planning
- EPM is Enterprise Performance Management
- GL is General Ledger
- EPMA is Enterprise Performance Management Architect
- POV is Point of View
- URL is Uniform Resource Locator





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# Glossary

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! See bang character.

**#MISSING** See missing data.

**access permissions** A set of operations that a user can perform on a resource.

**accessor** Input and output data specifications for data-mining algorithms.

**account blocking** The process by which accounts accept input data in the consolidated file. Blocked accounts do not receive their value through the additive consolidation process.

**account eliminations** Accounts which have their values set to zero in the consolidated file during consolidation.

**account type** A property that determines how an account's value flows over time and its sign behavior. Account type options can include expense, income, asset, liability, and equity.

**accountability map** A visual, hierarchical representation of the responsibility, reporting, and dependency structure of the accountability teams (also known as critical business areas) in an organization.

**active service** A service whose Run Type is set to Start rather than to Hold.

**active-active high availability system** A system in which all the available members can service requests, and no member is idle. An active-active system generally provides more scalability options than an active-passive system. Contrast with active-passive high availability system.

**active-passive high availability system** A system with active members, which are always servicing requests, and passive members that are activated only when an active member fails. Contrast with active-active high availability system.

**activity-level authorization** Defines user access to applications and the types of activities they can perform on applications, independent of the data that will be operated on.

**ad hoc report** An online analytical query that an end user creates dynamically.

**adapter** Software that enables a program to integrate with data and metadata from target and source systems.

**adaptive states** Interactive Reporting Web Client level of permission.

**adjustment** See journal entry.

**Advanced Relational Access** The integration of a relational database with an Essbase multidimensional database so that all data remains in the relational database and is mapped to summary-level data in the Essbase database.

**agent** An Essbase server process that starts and stops applications and databases, manages connections from users, and handles user-access security. The agent is referred to as ESSBASE.EXE.

**aggregate cell** A cell comprising several cells. For example, a data cell that uses Children(Year) expands to four cells containing Quarter 1, Quarter 2, Quarter 3, and Quarter 4 data.

**aggregate function** A type of function, such as sum or calculation of an average, that summarizes or performs analysis on data.

**aggregate limit** A limit placed on an aggregated request line item or aggregated metatopic item.

**aggregate storage database** The database storage model designed to support large-scale, sparsely distributed data which is categorized into many, potentially large dimensions. Upper level members and formulas are dynamically calculated, and selected data values are aggregated and stored, typically with improvements in overall aggregation time.

**aggregate view** A collection of aggregate cells based on the levels of the members within each dimension. To reduce calculation time, values are pre-aggregated and stored as aggregate views. Retrievals start from aggregate view totals and add up from there.

**aggregation** The process of rolling up and storing values in an aggregate storage database; the stored result of the aggregation process.

**aggregation script** In aggregate storage databases only, a file that defines a selection of aggregate views to be built into an aggregation.

**alias table** A table that contains alternate names for members.

**alternate hierarchy** A hierarchy of shared members. An alternate hierarchy is based upon an existing hierarchy in a database outline, but has alternate levels in the dimension. An alternate hierarchy allows the same data to be seen from different points of view.

**ancestor** A branch member that has members below it. For example, the members Qtr2 and 2006 are ancestors of the member April.

**appender** A Log4j term for destination.

**application** 1) A software program designed to run a specific task or group of tasks such as a spreadsheet program or database management system; 2) A related set of dimensions and dimension members that are used to meet a specific set of analytical requirements, reporting requirements, or both.

**application administrator** A person responsible for setting up, configuring, maintaining, and controlling an application. Has all application privileges and data access permissions.

**application currency** The default reporting currency for the application.

**Application Migration Utility** A command-line utility for migrating applications and artifacts.

**application server cluster** A loosely joined group of application servers running simultaneously, working together for reliability and scalability, and appearing to users as one application server instance. See also vertical application cluster and horizontal application cluster.

**area** A predefined set of members and values that makes up a partition.

**arithmetic data load** A data load that performs operations on values in the database, such as adding 10 to each value.

**artifact** An individual application or repository item; for example, scripts, forms, rules files, Interactive Reporting documents, and financial reports. Also known as an object.

**assemblies** Installation files for EPM System products or components.

**asset account** An account type that stores values that represent a company's assets.

**assignment** The association of a source and destination in the allocation model that controls the direction of allocated costs or revenue flow.

**asymmetric topology** An Oracle Fusion Middleware Disaster Recovery configuration that is different across tiers on the production site and standby site. For example, an asymmetric topology can include a standby site with fewer hosts and instances than the production site.

**attribute** A characteristic of a dimension member. For example, Employee dimension members may have attributes of Name, Age, or Address. Product dimension members can have several attributes, such as a size and flavor.

**attribute association** A relationship in a database outline whereby a member in an attribute dimension describes a characteristic of a member of its base dimension. For example, if product 100-10 has a grape flavor, the product 100-10 has the Flavor attribute association of grape. Thus, the 100-10 member of the Product dimension is associated with the Grape member of the Flavor attribute dimension.

**Attribute Calculations dimension** A system-defined dimension that performs these calculation operations on groups of members: Sum, Count, Avg, Min, and Max. This dimension is calculated dynamically and is not visible in the database outline. For example, using the Avg member, you can calculate the average sales value for Red products in New York in January.

**attribute dimension** A type of dimension that enables analysis based on the attributes or qualities of dimension members.

**attribute reporting** A reporting process based on the attributes of the base dimension members. See also base dimension.

**attribute type** A text, numeric, Boolean, date, or linked-attribute type that enables different functions for grouping, selecting, or calculating data. For example, because the Ounces attribute dimension has the type numeric, the number of ounces specified as the attribute of each product can be used to calculate the profit per ounce for that product.

**authentication** Verification of identity as a security measure. Authentication is typically based on a user name and password. Passwords and digital signatures are forms of authentication.

**authentication service** A core service that manages one authentication system.

**auto-reversing journal** A journal for entering adjustments that you want to reverse in the next period.

**automated stage** A stage that does not require human intervention; for example, a data load.

**axis** 1) A straight line that passes through a graphic used for measurement and categorization; 2) A report aspect used to arrange and relate multidimensional data, such as filters, pages, rows, and columns. For example, for a data query in Simple Basic, an axis can define columns for values for Qtr1, Qtr2, Qtr3, and Qtr4. Row data would be retrieved with totals in the following hierarchy: Market, Product.

**backup** A duplicate copy of an application instance.

**balance account** An account type that stores unsigned values that relate to a particular time.

**balanced journal** A journal in which the total debits equal the total credits.

**bang character (!)** A character that terminates a series of report commands and requests information from the database. A report script must be terminated with a bang character; several bang characters can be used within a report script.

**base currency** The currency in which daily business transactions are performed.

**base dimension** A standard dimension that is associated with one or more attribute dimensions. For example, assuming products have flavors, the Product dimension is the base dimension for the Flavors attribute dimension.

**base entity** An entity at the bottom of the organization structure that does not own other entities.

**batch calculation** Any calculation on a database that is done in batch; for example, a calculation script or a full database calculation. Dynamic calculations are not considered to be batch calculations.

**batch file** An operating system file that can call multiple ESSCMD scripts and run multiple sessions of ESSCMD. On Windows-based systems, batch files have BAT file extensions. On UNIX, batch files are written as a shell script.

**Batch Loader** An FDM component that enables the processing of multiple files.

**batch POV** A collection of all dimensions on the user POV of every report and book in the batch. While scheduling the batch, you can set the members selected on the batch POV.

**batch processing mode** A method of using ESSCMD to write a batch or script file that can be used to automate routine server maintenance and diagnostic tasks. ESSCMD script files can execute multiple commands and can be run from the operating system command line or from within operating system batch files. Batch files can be used to call multiple ESSCMD scripts or run multiple instances of ESSCMD.

**block** The primary storage unit which is a multidimensional array representing the cells of all dense dimensions.

**block storage database** The Essbase database storage model categorizing and storing data based on the sparsity of data values defined in sparse dimensions. Data values are stored in blocks, which exist only for sparse dimension members for which there are values.

**Blocked Account** An account that you do not want calculated in the consolidated file because you want to enter it manually.

**book** 1) In Financial Reporting, a container that holds a group of similar documents. Books may specify dimension sections or dimension changes; 2) In Data Relationship Management, a collection of exports that can be run together as a group. Export results can be combined together or output separately.

**book POV** The dimension members for which a book is run.

**bookmark** A link to a reporting document or a Web site, displayed on a personal page of a user. The types of bookmarks are My Bookmarks and image bookmarks.

**bounding rectangle** The required perimeter that encapsulates the Interactive Reporting document content when embedding Interactive Reporting document sections in a personal page, specified in pixels for height and width or row per page.

**broadcast message** A simple text message sent by an administrator to a user who is logged on to a Planning application. The message details information such as system availability, notification of application refresh, or application backups.

**build method** A method used to modify database outlines. Choice of a build method is based on the format of data in data source files.

**business process** A set of activities that collectively accomplish a business objective.

**business rules** Logical expressions or formulas that are created within an application to produce a desired set of resulting values.

**cache** A buffer in memory that holds data temporarily.

**calc script** A set of commands that define how a database is consolidated or aggregated. A calculation script may also contain commands that specify allocation and other calculation rules separate from the consolidation process.

**Calculated Accounts** Accounts with formulas that you cannot alter. These formulas are fixed to maintain the accounting integrity of the model that you are building. For example, the formula for Net Income, a Calculated Account, is modeled into Strategic Finance and cannot be changed in historical or forecast periods.

**calculated member in MaxL DML** A member designed for analytical purposes and defined in the optional WITH section of a MaxL DML query.

**Calculation Manager** A module of Enterprise Performance Management Architecture (EPMA) that Planning and Financial Management users can use to design, validate, and administrate business rules in a graphical environment. c

**calculation status** A consolidation status that indicates that some values or formula calculations have changed. You must reconsolidate to get the correct values for the affected entity.

**calendar** User-defined time periods and their relationship to each other. Q1, Q2, Q3, and Q4 comprise a calendar or fiscal year.

**cascade** The process of creating multiple reports for a subset of member values.

**Catalog pane** An area that displays a list of elements available to the active section. If Query is the active section, a list of database tables is displayed. If Pivot is the active section, a list of results columns is displayed. If Dashboard is the active section, a list of embeddable sections, graphic tools, and control tools are displayed.

**categories** Groupings by which data is organized. For example, Month.

**cause and effect map** A map that depicts how the elements that form your corporate strategy relate and how they work together to meet your organization's strategic goals. A Cause and Effect map tab is automatically created for each Strategy map.

**CDF** See custom-defined function.

**CDM** See custom-defined macro.

**cell** 1) The data value at the intersection of dimensions in a multidimensional database; the intersection of a row and a column in a worksheet; 2) A logical group of nodes belonging to one administrative domain.

**cell note** A text annotation for a cell in an Essbase database. Cell notes are a type of LRO.

**CHANGED status** Consolidation status that indicates data for an entity has changed.

**chart template** A template that defines the metrics to display in Workspace charts.

**child** A member with a parent above it in the database outline.

**choice list** A list of members that a report designer can specify for each dimension when defining the report's point of view. A user who wants to change the point of view for a dimension that uses a choice list can select only the members specified in that defined member list or those members that meet the criteria defined in the function for the dynamic list.

**clean block** A data block in which the database is fully calculated, if a calculation script calculates all dimensions at once, or if the SET CLEARUPDATESTATUS command is used in a calculation script.

**cluster** An array of servers or databases that behave as a single resource which share task loads and provide failover support; eliminates one server or database as a single point of failure in a system.

**cluster interconnect** A private link used by a hardware cluster for heartbeat information, to detect node failure.

**cluster services** Software that manages cluster member operations as a system. With cluster services, you can define a set of resources and services to monitor through a heartbeat mechanism between cluster members and to move these resources and services to a different cluster member as efficiently and transparently as possible.

**clustered bar charts** Charts in which categories are viewed side-by-side; used only with vertical bar charts.

**code page** A mapping of bit combinations to a set of text characters. Different code pages support different sets of characters. Each computer contains a code page setting for the character set requirements of the language of the computer user. In the context of this document, code pages map characters to bit combinations for non-Unicode encodings. See also encoding.

**column** In Data Relationship Management, a field of data associated with an import source or the results of a query, compare, validation, or export.

**committed access** An Essbase Kernel Isolation Level setting that affects how Essbase handles transactions. Under committed access, concurrent transactions hold long-term write locks and yield predictable results.

**computed item** A virtual column (as opposed to a column that is physically stored in the database or cube) that can be calculated by the database during a query, or by Interactive Reporting Studio in the Results section. Computed items are calculations of data based on functions, data items, and operators provided in the dialog box and can be included in reports or reused to calculate other data.

**connection file** See Interactive Reporting connection file (.oce)

**consolidated file (Parent)** A file into which all of the business unit files are consolidated; contains the definition of the consolidation.

**consolidation** The process of aggregating data from dependent entities to parent entities. For example, if the dimension Year consists of the members Qtr1, Qtr2, Qtr3, and Qtr4, its consolidation is Year.

**consolidation file (\*.cns)** A graphical interface that enables you to add, delete, or move Strategic Finance files in the consolidation process using either a Chart or Tree view. It also enables you to define and modify the consolidation.

**consolidation rule** The rule that is executed during the consolidation of the node of the hierarchy. This rule can contain customer-specific formulas appropriate for the correct consolidation of parent balances. Elimination processing can be controlled within these rules.

**content** Information stored in the repository for any type of file.

**content browser** A component that enables users to browse and select content to be placed on a Workspace Page.

**context variable** A variable that is defined for a particular task flow to identify the context of the taskflow instance.

**contribution** The value added to a parent from a child entity. Each child has a contribution to its parent.

**controls groups** Groupings used in FDM to maintain and organize certification and assessment information, especially helpful for meeting Sarbanes-Oxley requirements.

**conversion rate** See exchange rate.

**cookie** A segment of data placed on your computer by a Web site.

**correlated subqueries** Subqueries that are evaluated once for every row in the parent query; created by joining a topic item in the subquery with a topic in the parent query.

**critical business area (CBA)** An individual or a group organized into a division, region, plant, cost center, profit center, project team, or process; also called accountability team or business area.

**critical success factor (CSF)** A capability that must be established and sustained to achieve a strategic objective; owned by a strategic objective or a critical process and is a parent to one or more actions.

**crosstab reporting** Reporting that categorizes and summarizes data in table format. The table cells contain summaries of the data that fit within the intersecting categories. For example, a crosstab report of product sales information could show size attributes, such as Small and Large, as column headings and color attributes, such as Blue and Yellow, as row headings. The cell in the table where Large and Blue intersect could contain the total sales of all Blue products that are sized Large.

**cube** A block of data that contains three or more dimensions. An Essbase database is a cube.

**cube deployment** In Essbase Studio, the process of setting load options for a model to build an outline and load data into an Essbase application and database.

**cube schema** In Essbase Studio, the metadata elements, such as measures and hierarchies, representing the logical model of a cube.

**currency conversion** A process that converts currency values in a database from one currency into another. For example, to convert one U. S. dollar into the European euro, the exchange rate (for example, 0.923702) is multiplied by the dollar ( $1 * 0.923702$ ). After conversion, the European euro amount is .92.

**Currency Overrides** A feature allowing the selected input method for any input period to be overridden to enable input of that period's value as Default Currency/Items. To override the input method, enter a pound sign (#) before or after the number.

**currency partition** A dimension type that separates local currency members from a base currency, as defined in an application. Identifies currency types, such as Actual, Budget, and Forecast.

**custom calendar** Any calendar created by an administrator.

**custom dimension** A dimension created and defined by users. Channel, product, department, project, or region could be custom dimensions.

**custom property** A property of a dimension or dimension member that is created by a user.

**custom report** A complex report from the Design Report module, composed of any combination of components.

**custom-defined function (CDF)** Essbase calculation functions developed in Java and added to the standard Essbase calculation scripting language using MaxL. See also custom-defined macro.

**custom-defined macro (CDM)** Essbase macros written with Essbase calculator functions and special macro functions. Custom-defined macros use an internal Essbase macro language that enables the combination of calculation functions and they operate on multiple input parameters. See also custom-defined function.

**cycle through** Perform multiple passes through a database while calculating it.

**dashboard** A collection of metrics and indicators that provide an interactive summary of your business. Dashboards enable you to build and deploy analytic applications.

**data cache** A buffer in memory that holds uncompressed data blocks.

**data cell** See cell.

**data file cache** A buffer in memory that holds compressed data (PAG) files.

**data form** A grid display that enables users to enter data into the database from an interface such as a Web browser, and to view and analyze data or related text. Certain dimension member values are fixed, giving users a specific view into the data.

**data function** Function that computes aggregate values, including averages, maximums, counts, and other statistics that summarize groupings of data.

**data load location** In FDM, a reporting unit responsible for submitting source data into the target system. Typically, one FDM data load location exists for each source file loaded to the target system.

**data load rules** A set of criteria that determines how to load data from a text-based file, a spreadsheet, or a relational data set into a database.

**data lock** A feature that prevents changes to data according to specified criteria, such as a period or scenario.

**data mining** The process of searching through an Essbase database for hidden relationships and patterns in a large amount of data.

**data model** A representation of a subset of database tables.

**data value** See cell.

**database connection** A file that stores definitions and properties used to connect to data sources and enables database references to be portable and widely used.

**date measure** In Essbase, a member tagged as Date in the dimension where measures are represented. The cell values are displayed as formatted dates. Dates as measures can be useful for analysis types that are difficult to represent using the Time dimension. For example, an application may need to track acquisition dates for a series of capital assets, but the acquisition dates span too large a period to allow for feasible Time dimension modeling. See also typed measure.

**Default Currency Units** The unit scale of data. For example, If you select to define your analysis in thousands and enter 10, this unit is interpreted as 10,000.

**dense dimension** In block storage databases, a dimension likely to contain data for every combination of dimension members. For example, time dimensions are often dense because they can contain all combinations of all members. Contrast with sparse dimension.

**dependent entity** An entity that is owned by another entity in the organization.

**derived text measure** In Essbase Studio, a text measure whose values are governed by a predefined rule expressed as a range. For example, a derived text measure, called "Sales Performance Index," based on a measure Sales, could consist of the values "High," "Medium," and "Low." This derived text measure is defined to display "High," "Medium," and "Low" depending on the range in which the corresponding sales values fall. See also text measure.

**descendant** Any member below a parent in the database outline. In a dimension that includes years, quarters, and months, the members Qtr2 and April are descendants of the member Year.

**Design Report** An interface in Web Analysis Studio for designing custom reports, from a library of components.

**destination** 1) In Business Rules, a block of the database where calculated values are stored; 2) In Profitability and Cost Management, the association of a source and destination in the allocation model that controls the direction of allocated costs or revenue flow.

**destination currency** The currency to which balances are converted. You enter exchange rates and convert from the source currency to the destination currency. For example, when you convert from EUR to USD, the destination currency is USD.

**detail chart** A chart that provides the detailed information that you see in a Summary chart. Detail charts appear in the Investigate Section in columns below the Summary charts. If the Summary chart shows a Pie chart, then the Detail charts below represent each piece of the pie.

**dimension** A data category used to organize business data for the retrieval and preservation of values. Dimensions usually contain hierarchies of related members grouped within them. For example, a Year dimension often includes members for each time period, such as quarters and months.

**dimension build** The process of adding dimensions and members to an Essbase outline.

**dimension build rules** Specifications, similar to data load rules, that Essbase uses to modify an outline. The modification is based on data in an external data source file.

**dimension tab** In the Pivot section, the tab that enables you to pivot data between rows and columns.

**dimension table** 1) A table that includes numerous attributes about a specific business process; 2) In Essbase Integration Services, a container in the OLAP model for one or more relational tables that define a potential dimension in Essbase.

**dimension type** A dimension property that enables the use of predefined functionality. Dimensions tagged as time have a predefined calendar functionality.

**dimensionality** In MaxL DML, the represented dimensions (and the order in which they are represented) in a set. For example, the following set consists of two tuples of the same dimensionality, because they both reflect the dimensions (Region, Year): { (West, Feb), (East, Mar) }

**direct rate** A currency rate that you enter in the exchange-rate table. The direct rate is used for currency conversion. For example, to convert balances from JPY to USD, in the exchange-rate table, enter a rate for the period/scenario where the source currency is JPY and the destination currency is USD.

**dirty block** A data block containing cells that have been changed since the last calculation. Upper-level blocks are marked as dirty if their child blocks are dirty (that is, if they have been updated).

**Disaster Recovery** The ability to safeguard against natural or unplanned outages at a production site by having a recovery strategy for applications and data to a geographically separate standby site.

**display type** One of three Web Analysis formats saved to the repository: spreadsheet, chart, and pinboard.

**dog-ear** The flipped page corner in the upper-right corner of the chart header area.

**domain** In data mining, a variable representing a range of navigation within data.

**drill-down** Navigation through the query result set using the dimensional hierarchy. Drilling down moves the user perspective from aggregated data to detail. For example, drilling down can reveal hierarchical relationships between years and quarters or quarters and months.

**drill-through** The navigation from a value in one data source to corresponding data in another source.

**driver** In Profitability and Cost Management, an allocation method that describes the mathematical relationship between the sources that use the driver and the destinations to which those sources allocate cost or revenue. For Business Modeling, see also cost driver and activity driver.

**duplicate alias name** A name that occurs more than once in an alias table and can be associated with more than one member in a database outline. Duplicate alias names can be used with duplicate member outlines only.

**duplicate member name** Multiple occurrences of a member name in a database, with each occurrence representing a different member. For example, a database has two members named New York. One member represents New York state and the other member represents New York city.

**duplicate member outline** A database outline containing duplicate member names.

**Dynamic Calc and Store members** Members in a block storage outline that Essbase calculates only upon the first retrieval of the value. Essbase then stores the calculated value in the database. Subsequent retrievals do not require calculating.

**Dynamic Calc members** Members in a block storage outline that Essbase calculates only at retrieval time. Essbase discards calculated values after completing the retrieval request.

**dynamic calculation** In Essbase, a calculation that occurs only when you retrieve data on a member that is tagged as Dynamic Calc or Dynamic Calc and Store. The member's values are calculated at retrieval time instead of being precalculated during batch calculation.

**dynamic hierarchy** In aggregate storage database outlines only, a hierarchy in which members are calculated at retrieval time.

**dynamic member list** A system-created named member set that is based on user-defined criteria. The list is refreshed automatically whenever it is referenced in the application. As dimension members are added and deleted, the list automatically reapplies the criteria to reflect the changes.

**dynamic reference** A pointer in the rules file to header records in a data source.

**dynamic report** A report containing data that is updated when you run the report.

**Dynamic Time Series** A process that performs period-to-date reporting in block storage databases.

**dynamic view account** An account type indicating that account values are calculated dynamically from the data that is displayed.

**Eliminated Account** An account that does not appear in the consolidated file.

**elimination** The process of zeroing out (eliminating) transactions between entities within an organization.



**employee** A user responsible for, or associated with, specific business objects. Employees need not work for an organization; for example, they can be consultants. Employees must be associated with user accounts, for authorization purposes.

**encoding** A method for mapping bit combinations to characters for creating, storing, and displaying text. Each encoding has a name; for example, UTF-8. Within an encoding, each character maps to a specific bit combination; for example, in UTF-8, uppercase A maps to HEX41. See also code page, locale.

**ending period** A period enabling you to adjust the date range in a chart. For example, an ending period of "month" produces a chart showing information through the end of the current month.

**Enterprise View** An Administration Services feature that enables management of the Essbase environment from a graphical tree view. From Enterprise View, you can operate directly on Essbase artifacts.

**entity** A dimension representing organizational units. Examples: divisions, subsidiaries, plants, regions, products, or other financial reporting units.

**EPM Oracle home** A subdirectory of Middleware home containing the files required by EPM System products. The EPM Oracle home location is specified during installation with EPM System Installer.

**EPM Oracle instance** A directory containing active, dynamic components of EPM System products (components that can change during run-time). You define the EPM Oracle instance directory location during configuration with EPM System Configurator.

**Equity Beta** The riskiness of a stock, measured by the variance between its return and the market return, indicated by an index called "beta." For example, if a stock's return normally moves up or down 1.2% when the market moves up or down 1%, the stock has a beta of 1.2.

**essbase.cfg** An optional configuration file for Essbase. Administrators may edit this file to customize Essbase Server functionality. Some configuration settings may also be used with Essbase clients to override Essbase Server settings.

**EssCell** A function entered into a cell in Essbase Spreadsheet Add-in to retrieve a value representing an intersection of specific Essbase database members.

**ESSCMD** A command-line interface for performing Essbase operations interactively or through batch script files.

**ESSLANG** The Essbase environment variable that defines the encoding used to interpret text characters. See also encoding.

**ESSMSH** See MaxL Shell.

**exceptions** Values that satisfy predefined conditions. You can define formatting indicators or notify subscribing users when exceptions are generated.

**exchange rate type** An identifier for an exchange rate. Different rate types are used because there may be multiple rates for a period and year. Users traditionally define rates at period end for the average rate of the period and for the end of the period. Additional rate types are historical rates, budget rates, forecast rates, and so on. A rate type applies to a specific time.

**expense account** An account that stores periodic and year-to-date values that decrease net worth if they are positive.

**Extensible Markup Language (XML)** A language comprising a set of tags used to assign attributes to data that can be interpreted between applications according to a schema.

**external authentication** Logging on to Oracle EPM System products with user information stored outside the application. The user account is maintained by the EPM System, but password administration and user authentication are performed by an external service, using a corporate directory such as Oracle Internet Directory (OID) or Microsoft Active Directory (MSAD).

**externally triggered events** Non-time-based events for scheduling job runs.

**Extract, Transform, and Load (ETL)** Data-source-specific programs for extracting data and migrating it to applications.

**extraction command** An Essbase reporting command that handles the selection, orientation, grouping, and ordering of raw data extracted from a database; begins with the less-than (<) character.

**fact table** The central table in a star join schema, characterized by a foreign key and elements drawn from a dimension table. This table typically contains numeric data that can be related to all other tables in the schema.

**failover** The ability to switch automatically to a redundant standby database, server, or network if the primary database, server, or network fails or is shut down. A system that is clustered for failover provides high availability and fault tolerance through server redundancy and fault-tolerant hardware, such as shared disks.

**Favorites gadget** A gadget that contains links to Reporting and Analysis documents and URLs. See also gadget.

**file delimiter** A character, such as a comma or tab, that separates fields in a data source.

**filter** A constraint on data sets that restricts values to specific criteria; for example, to exclude certain tables, metadata, or values, or to control access.

**flow account** An unsigned account that stores periodic and year-to-date values.

**footer** Text or images at the bottom of report pages, containing dynamic functions or static text such as page numbers, dates, logos, titles or file names, and author names.

**format string** 1) In Essbase, a method for transforming the way cell values are displayed; 2) In Data Relationship Management, a parameter of a Format or Formatted Date derived property that indicates the format in which a property value should be returned.

**formula** In Data Relationship Management, business logic used by a derived property to dynamically calculate a property value.

**frame** An area on the desktop. Two main areas: the navigation and workspace frames.

**free-form grid** An object for presenting, entering, and integrating data from different sources for dynamic calculations.

**free-form reporting** Creating reports by entering dimension members or report script commands in worksheets.

**function** In Data Relationship Management, a syntactic element of a derived property formula that accepts parameters and returns dynamic values.

**gadget** A simple, specialized, lightweight application that provides easy viewing of EPM content and enables access to core Reporting and Analysis functionality.

**geneology data** Additional data that is optionally generated after allocation calculations. This data enables reporting on all cost or revenue flows from start to finish through all allocation steps.

**generation** A layer in a hierarchical tree structure that defines member relationships in a database. Generations are ordered incrementally from the top member of the dimension (generation 1) down to the child members. Use the unique generation name to identify a layer in the hierarchical tree structure.

**generic jobs** Non-SQR Production Reporting or non-Interactive Reporting jobs.

**global report command** A command in a running report script that is effective until it is replaced by another global command or the file ends.

**grid POV** A means for specifying dimension members on a grid without placing dimensions in rows, columns, or page intersections. A report designer can set POV values at the grid level, preventing user POVs from affecting the grid. If a dimension has one grid value, you put the dimension into the grid POV instead of the row, column, or page.

**group** A container for assigning similar access permissions to multiple users.

**GUI** Graphical user interface

**hardware cluster** a collection of computers that provides a single view of network services (for example, an IP address) or application services (such as databases and Web servers) to clients of these services. Each node in a hardware cluster is a standalone server that runs its own processes. These processes can communicate with one another to form what looks like a single system that cooperatively provides applications, system resources, and data to users.

**high availability** A system attribute that enables an application to continue to provide services in the presence of failures. This is achieved through removal of single points of failure, with fault-tolerant hardware, as well as server clusters; if one server fails, processing requests are routed to another server.

**Historical Average** An average for an account over a number of historical periods.

**holding company** An entity that is part of a legal entity group, with direct or indirect investments in all entities in the group.

**horizontal application server cluster** A cluster with application server instances on different machines.

**host** A server on which applications and services are installed.

**host properties** Properties pertaining to a host, or if the host has multiple Oracle EPM homes, to an Oracle EPM home.

**Hybrid Analysis** An analysis mapping low-level data stored in a relational database to summary-level data stored in Essbase, combining the mass scalability of relational systems with multidimensional data.

**hyperlink** A link to a file, a Web page, or an intranet HTML page.

**Hypertext Markup Language (HTML)** A programming language specifying how Web browsers display data.

**identity** A unique identification for a user or group in external authentication.

**image bookmarks** Graphic links to Web pages or repository items.

**IMPACTED status** A status that indicates changes in child entities consolidating into parent entities.

**implied share** A member with one or more children but only one that is consolidated, so the parent and child share a value.

**import format** In FDM, the definition of the structure of the source file that enables the loading of a source data file to an FDM data-load location.

**inactive group** A group for which an administrator has deactivated system access.

**INACTIVE status** A status that indicates entities deactivated from consolidation for the current period.

**inactive user** A user whose account was deactivated by an administrator.

**income account** An account storing periodic and year-to-date values that, if positive, increase net worth.

**index** 1) A method where Essbase uses sparse-data combinations to retrieve data in block storage databases. 2) The index file.

**index cache** A buffer containing index pages.

**index entry** A pointer to an intersection of sparse dimensions. Index entries point to data blocks on disk and use offsets to locate cells.

**index file** An Essbase file storing block storage data retrieval information, residing on disk, and containing index pages.

**index page** A subdivision in an index file. An index page contains pointers to data blocks.

**input data** Data loaded from a source rather than calculated.

**installation assemblies** Product installation files that plug in to EPM System Installer.

**integration** A process that is run to move data between Oracle's Hyperion applications using Shared Services. Data integration definitions specify the data moving between a source application and a destination application, and they enable the data movements to be grouped, ordered, and scheduled.

**intelligent calculation** A calculation method tracking updated data blocks since the last calculation.

**Interactive Reporting connection file (.oce)** Files encapsulating database connection information, including the database API (ODBC, SQL\*Net, and so on), database software, the database server network address, and database user name. Administrators create and publish Interactive Reporting connection (.oce) files.

**intercompany elimination** See elimination.

**intercompany matching** The process of comparing balances for pairs of intercompany accounts within an application. Intercompany receivables are compared to intercompany payables for matches. Matching accounts are used to eliminate intercompany transactions from an organization's consolidated totals.

**intercompany matching report** A report that compares intercompany account balances and indicates whether the accounts are in balance.

**interdimensional irrelevance** A situation in which a dimension does not intersect with other dimensions. Because the data in the dimension cannot be accessed from the nonintersecting dimensions, the nonintersecting dimensions are not relevant to that dimension.

**intersection** A unit of data representing the intersection of dimensions in a multidimensional database; also, a worksheet cell.

**intrastage assignment** An assignment in the financial flow to an object within the same stage.

**introspection** A deep inspection of a data source to discover hierarchies based on the inherent relationships in the database. Contrast with scraping.

**Investigation** See drill-through.

**isolation level** An Essbase Kernel setting that determines the lock and commit behavior of database operations. Choices are: committed access and uncommitted access.

**iteration** A pass of the budget or planning cycle in which the same version of data is revised and promoted.

**Java application server cluster** An active-active application server cluster of Java Virtual Machines (JVMs).

**Java Database Connectivity (JDBC)** A client-server communication protocol used by Java-based clients and relational databases. The JDBC interface provides a call-level API for SQL-based database access.

**job output** Files or reports produced from running a job.

**jobs** Documents with special properties that can be launched to generate output. A job can contain Interactive Reporting, SQR Production Reporting, or generic documents.

**join** A link between two relational database tables or topics based on common content in a column or row. A join typically occurs between identical or similar items within different tables or topics. For example, a record in the Customer table is joined to a record in the Orders table because the Customer ID value is the same in each table.

**journal entry (JE)** A set of debit-credit adjustments to account balances for a scenario and period.

**JSP** Java Server Page.

**KeyContacts gadget** A gadget that contains a group of Smart Space users and provides access to Smart Space Collaborator. For example, you can have a KeyContacts gadget for your marketing team and another for your development team. See also gadget.

**latest** A spreadsheet keyword used to extract data values from the member defined as the latest time period.

**layer** 1) The horizontal location of members in a hierarchical structure, specified by generation (top down) or level (bottom up); 2) Position of objects relative to other objects. For example, in the Sample Basic database, Qtr1 and Qtr4 are in the same layer, so they are also in the same generation, but in a database with a ragged hierarchy, Qtr1 and Qtr4 might not be in same layer, though they are in the same generation.

**layout area** An area on a Workspace Page where content can be placed.

**legend box** A box containing labels that identify the data categories of a dimension.

**level** A layer in a hierarchical tree structure that defines database member relationships. Levels are ordered from the bottom dimension member (level 0) up to the parent members.

**level 0 block** A data block for combinations of sparse, level 0 members.

**level 0 member** A member that has no children.

**liability account** An account type that stores "point in time" balances of a company's liabilities. Examples: accrued expenses, accounts payable, and long-term debt.

**lifecycle management** The process of migrating an application, a repository, or individual artifacts across product environments.

**line item detail** The lowest level of detail in an account.

**lineage** The relationship between different metadata elements showing how one metadata element is derived from one or more other metadata elements, ultimately tracing the metadata element to its physical source. In Essbase Studio, a lineage viewer displays the relationships graphically. See also traceability.

**link** 1) A reference to a repository object. Links can reference folders, files, shortcuts, and other links; 2) In a taskflow, the point where the activity in one stage ends and another begins.

**link condition** A logical expression evaluated by the taskflow engine to determine the sequence of launching taskflow stages.

**linked data model** Documents that are linked to a master copy in a repository

**linked partition** A shared partition that enables you to use a data cell to link two databases. When a user clicks a linked cell in a worksheet, Essbase opens a new sheet displaying the dimensions in the linked database. The user can then drill down those dimensions.

**linked reporting object (LRO)** A cell-based link to an external file such as cell notes, URLs, or files with text, audio, video, or pictures. (Only cell notes are supported for Essbase LROs in Financial Reporting.) Contrast with local report object.

**load balancer** Hardware or software that directs the requests to individual application servers in a cluster and is the only point of entry into the system.

**load balancing** Distribution of requests across a group of servers, which helps to ensure optimal end user performance.

**local currency** An input currency type. When an input currency type is not specified, the local currency matches the entity's base currency.

**local report object** A report object that is not linked to a Financial Reporting report object in Explorer. Contrast with linked reporting object.

**local results** A data model's query results. Results can be used in local joins by dragging them into the data model. Local results are displayed in the catalog when requested.

**locale** A computer setting that specifies a location's language, currency and date formatting, data sort order, and the character set encoding used on the computer. Essbase uses only the encoding portion. See also encoding, ESSLANG.

**locale header record** A text record at the beginning of some non-Unicode-encoded text files, such as scripts, that identifies the encoding locale.

**location alias** A descriptor that identifies a data source. The location alias specifies a server, application, database, user name, and password. Location aliases are set by DBAs at the database level using Administration Services Console, ESSCMD, or the API.

**locked** A user-invoked process that prevents users and processes from modifying data.

**locked data model** A data model that cannot be modified by a user.

**LOCKED status** A consolidation status indicating that an entity contains data that cannot be modified.

**Log Analyzer** An Administration Services feature that enables filtering, searching, and analysis of Essbase logs.

**logic group** In FDM, one or more logic accounts generated after a source file is loaded into FDM. Logic accounts are calculated accounts derived from the source data.

**logical Web application** An aliased reference used to identify the internal host name, port, and context of a Web application. In a clustered or high-availability environment, this is the alias name that establishes a single internal reference for the distributed components. In EPM System, a nonclustered logical Web application defaults to the physical host running the Web application.

**LRO** See linked reporting object.

**managed server** An application server process running in its own Java Virtual Machine (JVM).

**manual stage** A stage that requires human intervention.

**Map File** A file that stores the definition for sending data to or retrieving data from an external database. Map files have different extensions (.mps to send data; .mpr to retrieve data).

**Map Navigator** A feature that displays your current position on a Strategy, Accountability, or Cause and Effect map, indicated by a red outline.

**Marginal Tax Rate** The rate used to calculate the after-tax cost of debt; represents the tax rate applied to the last earned income dollar (the rate from the highest tax bracket into which income falls) and includes federal, state, and local taxes. Based on current level of taxable income and tax bracket, you can predict marginal tax rate.

**Market Risk Premium** The additional rate of return paid over the risk-free rate to persuade investors to hold "riskier" investments than government securities. Calculated by subtracting the risk-free rate from the expected market return. These figures should closely model future market conditions.

**master data model** An independent data model that is referenced as a source by multiple queries. When used, "Locked Data Model" is displayed in the Query section's Content pane; the data model is linked to the master data model displayed in the Data Model section, which an administrator may hide.

**mathematical operator** A symbol that defines how data is calculated in formulas and outlines. Can be any of the standard mathematical or Boolean operators; for example, +, -, \*, /, and %.

**MaxL** The multidimensional database access language for Essbase, consisting of a data definition language (MaxL DDL) and a data manipulation language (MaxL DML). See also MaxL DDL, MaxL DML, and MaxL Shell

**MaxL DDL** The data definition language used by Essbase for batch or interactive system-administration tasks.

**MaxL DML** The data manipulation language used in Essbase for data query and extraction.

**MaxL Perl Module** A Perl module (essbase.pm) that is part of Essbase MaxL DDL. This module can be added to the Perl package to provide access to Essbase databases from Perl programs.

**MaxL Script Editor** A script-development environment in Administration Services Console. MaxL Script Editor is an alternative to using a text editor and the MaxL Shell for administering Essbase with MaxL scripts.

**MaxL Shell** An interface for passing MaxL statements to Essbase Server. The MaxL Shell executable file is located in the Essbase bin directory (UNIX: essmsh; Windows: essmsh.exe).

**MDX (multidimensional expression)** A language used for querying and calculation in multidimensional-compliant databases.

**measures** Numeric values in an OLAP database cube that are available for analysis. Measures are margin, cost of goods sold, unit sales, budget amount, and so on. See also fact table.

**member** A discrete component within a dimension. A member identifies and differentiates the organization of similar units. For example, a time dimension might include members Jan, Feb, and Qtr1.

**member list** A named system- or user-defined group that references members, functions, or member lists within a dimension.

**member load** In Essbase Integration Services, the process of adding dimensions and members (without data) to Essbase outlines.

**member selection report command** A type of Report Writer command that selects member ranges based on outline relationships, such as sibling, generation, and level.

**member-specific report command** A type of Report Writer formatting command that is executed as it is encountered in a report script. The command affects only its associated member and executes the format command before processing the member.

**merge** A data load option that clears values only from the accounts specified in the data load file and replaces them with values in the data load file.

**metadata** A set of data that defines and describes the properties and attributes of the data stored in a database or used by an application. Examples of metadata are dimension names, member names, properties, time periods, and security.

**metadata elements** Metadata derived from data sources and other metadata that is stored and cataloged for Essbase Studio use.

**metadata sampling** The process of retrieving a sample of members in a dimension in a drill-down operation.

**metadata security** Security set at the member level to restrict users from accessing certain outline members.

**metaoutline** In Essbase Integration Services, a template containing the structure and rules for creating an Essbase outline from an OLAP model.

**Middleware home** A directory that includes the Oracle WebLogic Server home and can also include the EPM Oracle home and other Oracle homes. A Middleware home can reside on a local file system or on a remote shared disk that is accessible through NFS.

**migration audit report** A report generated from the migration log that provides tracking information for an application migration.

**migration definition file (.mdf)** A file that contains migration parameters for an application migration, enabling batch script processing.

**migration log** A log file that captures all application migration actions and messages.

**migration snapshot** A snapshot of an application migration that is captured in the migration log.

**MIME Type** An attribute that describes the data format of an item, so that the system knows which application should open the object. A file's MIME (Multipurpose Internet Mail Extension) type is determined by the file extension or HTTP header. Plug-ins tell browsers which MIME types they support and which file extensions correspond to each MIME type.

**mining attribute** In data mining, a class of values used as a factor in analysis of a set of data.

**minireport** A report component that includes layout, content, hyperlinks, and the query or queries to load the report. Each report can include one or more minireports.

**minischema** A graphical representation of a subset of tables from a data source that represents a data modeling context.

**missing data (#MISSING)** A marker indicating that data in the labeled location does not exist, contains no value, or was never entered or loaded. For example, missing data exists when an account contains data for a previous or future period but not for the current period.

**model** 1) In data mining, a collection of an algorithm's findings about examined data. A model can be applied against a wider data set to generate useful information about that data; 2) A file or content string containing an application-specific representation of data. Models are the basic data managed by Shared Services, of two major types: dimensional and nondimensional application objects; 3) In Business Modeling, a network of boxes connected to represent and calculate the operational and financial flow through the area being examined.

**multidimensional database** A method of organizing, storing, and referencing data through three or more dimensions. An individual value is the intersection point for a set of dimensions. Contrast with relational database.

**Multiload** An FDM feature that allows the simultaneous loading of multiple periods, categories, and locations.

**My Workspace Page** Customizable Workspace Pages created by users. They are marked specially so that they can be easily accessed from one single place without having to navigate the repository.

**named set** In MaxL DML, a set with its logic defined in the optional WITH section of a MaxL DML query. The named set can be referenced multiple times in the query.

**native authentication** The process of authenticating a user name and password from within the server or application.

**nested column headings** A report column heading format that displays data from multiple dimensions. For example, a column heading that contains Year and Scenario members is a nested column. The nested column heading shows Q1 (from the Year dimension) in the top line of the heading, qualified by Actual and Budget (from the Scenario dimension) in the bottom line of the heading.

**NO DATA status** A consolidation status indicating that this entity contains no data for the specified period and account.

**non-dimensional model** A Shared Services model type that includes application objects such as security files, member lists, calculation scripts, and Web forms.

**non-unique member name** See duplicate member name.

**null value** A value that is absent of data. Null values are not equal to zero.

**numeric attribute range** A feature used to associate a base dimension member that has a discrete numeric value with an attribute that represents a value range. For example, to classify customers by age, an Age Group attribute dimension can contain members for the following age ranges: 0-20, 21-40, 41-60, and 61-80. Each Customer dimension member can be associated with an Age Group range. Data can be retrieved based on the age ranges rather than on individual age values.

**ODBC** Open Database Connectivity. A database access method used from any application regardless of how the database management system (DBMS) processes the information.

**OK status** A consolidation status indicating that an entity has already been consolidated, and that data has not changed below it in the organization structure.

**OLAP Metadata Catalog** In Essbase Integration Services, a relational database containing metadata describing the nature, source, location, and type of data that is pulled from the relational data source.

**OLAP model** In Essbase Integration Services, a logical model (star schema) that is created from tables and columns in a relational database. The OLAP model is then used to generate the structure of a multidimensional database. See also online analytical processing (OLAP).

**online analytical processing (OLAP)** A multidimensional, multiuser, client-server computing environment for users who analyze consolidated enterprise data in real time. OLAP systems feature drill-down, data pivoting, complex calculations, trend analysis, and modeling.

**Open Database Connectivity (ODBC)** Standardized application programming interface (API) technology that allows applications to access multiple third-party databases.

**Oracle home** A directory containing the installed files required by a specific product, and residing within the directory structure of Middleware home. See also Middleware home.

**organization** An entity hierarchy that defines each entity and their relationship to others in the hierarchy.

**origin** The intersection of two axes.

**outline** The database structure of a multidimensional database, including all dimensions, members, tags, types, consolidations, and mathematical relationships. Data is stored in the database according to the structure defined in the outline.

**outline synchronization** For partitioned databases, the process of propagating outline changes from one database to another database.

**P&L accounts (P&L)** Profit and loss accounts. P&L refers to a typical grouping of expense and income accounts that comprise a company's income statement.

**page** A display of information in a grid or table often represented by the Z-axis. A page can contain data from one field, derived data from a calculation, or text.

**page file** An Essbase data file.

**page heading** A report heading type that lists members represented on the current page of the report. All data values on the page have the members in the page heading as a common attribute.

**page member** A member that determines the page axis.

**palette** A JASC-compliant file with a .PAL extension. Each palette contains 16 colors that complement each other and can be used to set the dashboard color elements.

**parallel calculation** A calculation option. Essbase divides a calculation into tasks and calculates some tasks simultaneously.

**parallel data load** In Essbase, the concurrent execution of data load stages by multiple process threads.

**parallel export** The ability to export Essbase data to multiple files. This may be faster than exporting to a single file, and it may resolve problems caused by a single data file becoming too large for the operating system to handle.

**parent adjustments** The journal entries that are posted to a child in relation to its parent.

**parents** The entities that contain one or more dependent entities that report directly to them. Because parents are entities associated with at least one node, they have entity, node, and parent information associated with them.



**partition area** A subcube within a database. A partition is composed of one or more areas of cells from a portion of the database. For replicated and transparent partitions, the number of cells within an area must be the same for the data source and target to ensure that the two partitions have the same shape. If the data source area contains 18 cells, the data target area must also contain 18 cells to accommodate the number of values.

**partitioning** The process of defining areas of data that are shared or linked between data models. Partitioning can affect the performance and scalability of Essbase applications.

**pattern matching** The ability to match a value with any or all characters of an item entered as a criterion. Missing characters may be represented by wild-card values such as a question mark (?) or an asterisk (\*). For example, "Find all instances of apple" returns apple, but "Find all instances of apple\*" returns apple, applesauce, applecranberry, and so on.

**percent consolidation** The portion of a child's values that is consolidated to its parent.

**percent control** The extent to which an entity is controlled within the context of its group.

**percent ownership** The extent to which an entity is owned by its parent.

**performance indicator** An image file used to represent measure and scorecard performance based on a range you specify; also called a status symbol. You can use the default performance indicators or create an unlimited number of your own.

**periodic value method (PVA)** A process of currency conversion that applies the periodic exchange rate values over time to derive converted results.

**permission** A level of access granted to users and groups for managing data or other users and groups.

**persistence** The continuance or longevity of effect for any Essbase operation or setting. For example, an Essbase administrator may limit the persistence of user name and password validity.

**personal pages** A personal window to repository information. You select what information to display and its layout and colors.

**personal recurring time events** Reusable time events that are accessible only to the user who created them.

**personal variable** A named selection statement of complex member selections.

**perspective** A category used to group measures on a scorecard or strategic objectives within an application. A perspective can represent a key stakeholder (such as a customer, employee, or shareholder/financial) or a key competency area (such as time, cost, or quality).

**pinboard** One of the three data object display types. Pinboards are graphics composed of backgrounds and interactive icons called pins. Pinboards require traffic lighting definitions.

**pins** Interactive icons placed on graphic reports called pinboards. Pins are dynamic. They can change images and traffic lighting color based on the underlying data values and analysis tools criteria.

**pivot** Alter the perspective of retrieved data. When Essbase first retrieves a dimension, it expands data into rows. You can then pivot or rearrange the data to obtain a different viewpoint.

**planner** A user who can input and submit data, use reports that others create, execute business rules, use task lists, enable e-mail notification for themselves, and use Smart View. Planners comprise the majority of users.

**planning unit** A data slice at the intersection of a scenario, version, and entity; the basic unit for preparing, reviewing, annotating, and approving plan data.

**plot area** The area bounded by X, Y, and Z axes; for pie charts, the rectangular area surrounding the pie.

**plug account** An account in which the system stores any out-of-balance differences between intercompany account pairs during the elimination process.

**post stage assignment** Assignments in the allocation model that are assigned to locations in a subsequent model stage.

**POV (point of view)** A feature for setting data focus by selecting members that are not already assigned to row, column, or page axes. For example, selectable POVs in FDM could include location, period, category, and target category. In another example, using POV as a filter in Smart View, you could assign the Currency dimension to the POV and select the Euro member. Selecting this POV in data forms displays data in Euro values.

**precalculation** Calculating the database before user retrieval.

**precision** Number of decimal places displayed in numbers.

**predefined drill paths** Paths used to drill to the next level of detail, as defined in the data model.

**presentation** A playlist of Web Analysis documents, enabling reports to be grouped, organized, ordered, distributed, and reviewed. Includes pointers referencing reports in the repository.

**preserve formulas** User-created formulas kept within a worksheet while retrieving data.

**primary measure** A high-priority measure important to your company and business needs. Displayed in the Contents frame.

**Process Monitor Report** A list of locations and their positions within the FDM data conversion process. You can use the process monitor report to monitor the status of the closing process. The report is time-stamped. Therefore, it can be used to determine to which locations at which time data was loaded.

**product** In Shared Services, an application type, such as Planning or Performance Scorecard.

**Production Reporting** See SQR Production Reporting.

**project** An instance of Oracle's Hyperion products grouped together in an implementation. For example, a Planning project may consist of a Planning application, an Essbase cube, and a Financial Reporting Server instance.

**provisioning** The process of granting users and groups specific access permissions to resources.

**proxy server** A server acting as an intermediary between workstation users and the Internet to ensure security.

**public job parameters** Reusable named job parameters created by administrators and accessible to users with requisite access privileges.

**public recurring time events** Reusable time events created by administrators and accessible through the access control system.

**PVA** See periodic value method.

**qualified name** A member name in a qualified format that differentiates duplicate member names in a duplicate member outline. For example, [Market].[East].[State].[New York] or [Market].[East].[City].[New York].

**query governor** An Essbase Integration Server parameter or Essbase Server configuration setting that controls the duration and size of queries made to data sources.

**reciprocal assignment** An assignment in the financial flow that also has the source as one of its destinations.

**reconfigure URL** A URL that is used to reload servlet configuration settings dynamically when users are already logged on to the Workspace.

**record** In a database, a group of fields making up one complete entry. For example, a customer record may contain fields for name, address, telephone number, and sales data.

**recurring template** A journal template for making identical adjustments in every period.

**recurring time event** An event specifying a starting point and the frequency for running a job.

**redundant data** Duplicate data blocks that Essbase retains during transactions until Essbase commits updated blocks.

**regular journal** A feature for entering one-time adjustments for a period. A regular journal can be balanced, balanced by entity, or unbalanced.

**Related Accounts** Accounts related to the main account and grouped under the same main account number. The account structure groups all main and related accounts under the same main account number. The main account is distinguished from related accounts by the first suffix of the account number.

**relational database** A type of database that stores data in related two-dimensional tables. Contrast with multidimensional database.

**replace** A data load option that clears existing values from all accounts for periods specified in the data load file and loads values from the data load file. If an account is not specified in the load file, its values for the specified periods are cleared.

**replicated partition** A portion of a database, defined through Partition Manager, used to propagate an update to data mastered at one site to a copy of data stored at another site. Users can access the data as though it were part of their local database.

**Report Extractor** An Essbase component that retrieves report data from the Essbase database when report scripts are run.

**report object** In report designs, a basic element with properties defining behavior or appearance, such as text boxes, grids, images, and charts.

**report script** A text file containing Essbase Report Writer commands that generate one or more production reports.

**Report Viewer** An Essbase component that displays complete reports after report scripts are run.

**reporting currency** The currency used to prepare financial statements, and converted from local currencies to reporting currencies.

**repository** Storage location for metadata, formatting, and annotation information for views and queries.

**resources** Objects or services managed by the system, such as roles, users, groups, files, and jobs.

**restore** An operation to reload data and structural information after a database has been damaged or destroyed, typically performed after shutting down and restarting the database.

**restructure** An operation to regenerate or rebuild the database index and, in some cases, data files.

**result frequency** The algorithm used to create a set of dates to collect and display results.

**review level** A Process Management review status indicator representing the process unit level, such as Not Started, First Pass, Submitted, Approved, and Published.

**Risk Free Rate** The rate of return expected from "safer" investments such as long-term U.S. government securities.

**role** The means by which access permissions are granted to users and groups for resources.

**roll-up** See consolidation.

**root member** The highest member in a dimension branch.

**runtime prompt** A variable that users enter or select before a business rule is run.

**sampling** The process of selecting a representative portion of an entity to determine the entity's characteristics. See also metadata sampling.

**saved assumptions** User-defined Planning assumptions that drive key business calculations (for example, the cost per square foot of office floor space).

**scaling** Scaling determines the display of values in whole numbers, tens, hundreds, thousands, millions, and so on.

**scenario** A dimension for classifying data; for example, Actuals, Budget, Forecast1, or Forecast2.

**schema** In relational databases, a logical model that represents the data and the relationships between the data.

**scope** The area of data encompassed by any Essbase operation or setting; for example, the area of data affected by a security setting. Most commonly, scope refers to three levels of granularity, where higher levels encompass lower levels. The levels, from highest to lowest: the entire system (Essbase Server), applications on Essbase Server, or databases within Essbase Server applications. See also persistence.

**score** The level at which targets are achieved, usually expressed as a percentage of the target.

**scorecard** A business object that represents the progress of an employee, strategy element, or accountability element toward goals. Scorecards ascertain this progress based on data collected for each measure and child scorecard added to the scorecard.

**scraping** An inspection of a data source to derive the most basic metadata elements from it. Contrast with introspection.

**secondary measure** A low-priority measure, less important than primary measures. Secondary measures do not have Performance reports but can be used on scorecards and to create dimension measure templates.

**security agent** A Web access management provider (for example, Oracle Access Manager, Oracle Single Sign-On, or CA SiteMinder) that protects corporate Web resources.

**security platform** A framework enabling Oracle EPM System products to use external authentication and single sign-on.

**serial calculation** The default calculation setting. Divides a calculation pass into tasks and calculates one task at a time.

**services** Resources that enable business items to be retrieved, changed, added, or deleted. Examples: Authorization and Authentication.

**servlet** A piece of compiled code executable by a Web server.

**shared disks** See shared storage.

**shared member** A member that shares storage space with another member of the same name, preventing duplicate calculation of members that occur multiple times in an Essbase outline.

**Shared Services Registry** The part of the Shared Services repository that manages EPM System deployment information for most EPM System products, including installation directories, database settings, computer names, ports, servers, URLs, and dependent service data.

**shared storage** A set of disks containing data that must be available to all nodes of a failover cluster; also called shared disks.

**Shared Workspace Pages** Workspace Pages shared across an organization that are stored in a special System folder and can be accessed by authorized users from the Shared Workspace Pages Navigate menu.

**sibling** A child member at the same generation as another child member and having the same immediate parent. For example, the members Florida and New York are children of East and each other's siblings.

**silent response files** Files providing data that an installation administrator would otherwise be required to provide. Response files enable EPM System Installer or EPM System Configurator to run without user intervention or input.

**single point of failure** Any component in a system that, if it fails, prevents users from accessing the normal functionality.

**single sign-on (SSO)** The ability to log on once and then access multiple applications without being prompted again for authentication.

**smart tags** Keywords in Microsoft Office applications that are associated with predefined actions available from the Smart Tag menu. In Oracle EPM System products, smart tags can also be used to import Reporting and Analysis content and to access Financial Management and Essbase functions.

**SmartCut** A link to a repository item, in URL form.

**snapshot** Read-only data from a specific time.

**source currency** The currency from which values originate and are converted through exchange rates to the destination currency.

**sparse dimension** In block storage databases, a dimension unlikely to contain data for all member combinations when compared to other dimensions. Contrast with dense dimension. For example, not all customers have data for all products.

**SPF files** Printer-independent files created by an SQR Production Reporting server, containing a representation of the actual formatted report output, including fonts, spacing, headers, footers, and so on.

**Spotlighter** A tool that enables color coding based on selected conditions.

**SQL spreadsheet** A data object that displays the result set of a SQL query.

**SQR Production Reporting** A specialized programming language for data access, data manipulation, and creating SQR Production Reporting documents.

**stage** 1) A task description that forms one logical step within a taskflow, usually performed by an individual. A stage can be manual or automated; 2) For Profitability, logical divisions within the model that represent the steps in the allocation process within your organization.

**stage action** For automated stages, the invoked action that executes the stage.

**staging area** A database that you create to meet the needs of a specific application. A staging area is a snapshot or restructured version of one or more RDBMS.

**staging table** A database that you create to meet the needs of a specific application. A staging area is a snapshot or restructured version of one or more RDBMSs.

**standard dimension** A dimension that is not an attribute dimension.

**standard journal template** A journal function used to post adjustments that have common adjustment information for each period. For example, you can create a standard template that contains the common account IDs, entity IDs, or amounts, and then use the template as the basis for many regular journals.

**Status bar** The bar at the bottom of the screen that displays helpful information about commands, accounts, and the current status of your data file.

**stored hierarchy** In aggregate storage databases outlines only, a hierarchy in which the members are aggregated according to the outline structure. Stored hierarchy members have certain restrictions; for example, they cannot contain formulas.

**strategic objective (SO)** A long-term goal defined by measurable results. Each strategic objective is associated with one perspective in the application, has one parent, the entity, and is a parent to critical success factors or other strategic objectives.

**Strategy map** Represents how the organization implements high-level mission and vision statements into lower-level, constituent strategic goals and objectives.

**structure view** Displays a topic as a simple list of component data items.

**Structured Query Language** A language used to process instructions to relational databases.

**Subaccount Numbering** A system for numbering subaccounts using nonsequential whole numbers.

**subscribe** Flags an item or folder to receive automatic notification whenever the item or folder is updated.

**Summary chart** In the Investigates Section, a chart that rolls up detail charts shown below in the same column, plotting metrics at the summary level at the top of each chart column.

**supervisor** A user with full access to all applications, databases, related files, and security mechanisms for a server.

**supporting detail** Calculations and assumptions from which the values of cells are derived.

**suppress rows** A setting that excludes rows containing missing values and underscores characters from spreadsheet reports.

**symmetric multiprocessing (SMP)** A server architecture that enables multiprocessing and multithreading. Performance is not significantly degraded when a large number of users simultaneously connect to an single instance.

**symmetric topology** An Oracle Fusion Middleware Disaster Recovery configuration that is identical across tiers on the production site and standby site. In a symmetric topology, the production site and standby site have the identical number of hosts, load balancers, instances, and applications. The same ports are used for both sites. The systems are configured identically and the applications access the same data.

**sync** Synchronization of Shared Services and application models.

**synchronized** The condition that exists when the latest version of a model resides in both the application and in Shared Services. See also model.

**system extract** A feature that transfers data from application metadata into an ASCII file.

**tabs** Navigable views of accounts and reports in Strategic Finance.

**target** Expected results of a measure for a specified period of time (day, quarter, and so on).

**task list** A detailed status list of tasks for a particular user.

**taskflow** The automation of a business process in which tasks are passed from one taskflow participant to another according to procedural rules.

**taskflow definition** Business processes in the taskflow management system that consist of a network of stages and their relationships; criteria indicating the start and end of the taskflow; and information about individual stages, such as participants, associated applications, associated activities, and so on.

**taskflow instance** A single instance of a taskflow including its state and associated data.

**taskflow management system** A system that defines, creates, and manages the execution of a taskflow, including definitions, user or application interactions, and application executables.

**taskflow participant** The resource that performs the task associated with the taskflow stage instance for both manual and automated stages.

**Taxes - Initial Balances** Strategic Finance assumes that the Initial Loss Balance, Initial Gain Balance, and Initial Balance of Taxes Paid entries have taken place in the period before the first Strategic Finance time period.

**TCP/IP** See Transmission Control Protocol/Internet Protocol.

**text measure** In Essbase, a member tagged as Text in the dimension where measures are represented. The cell values are displayed as predefined text. For example, the text measure Satisfaction Index may have the values Low, Medium, and High. See also typed measure, text list, derived text measure.

**time dimension** The time period that the data represents, such as fiscal or calendar periods.

**time events** Triggers for job execution.

**time scale** A scale that displays metrics by a specific time span, such as monthly or quarterly.

**time series reporting** A process for reporting data based on a calendar date (for example, year, quarter, month, or week).

**Timeline Viewer** An FDM feature that enables users to view dates and times of completed process flow steps for specific locations.

**Title bar** A bar that displays the Strategic Finance name, the file name, and the scenario name Version box.

**toast message** A message that fades in the lower-right corner of the screen.

**token** An encrypted identification of one valid user or group on an external authentication system.

**top and side labels** Column and row headings on the top and sides of a Pivot report.

**top-level member** A dimension member at the top of the tree in a dimension outline hierarchy, or the first member of the dimension in sort order if there is no hierarchical relationship among dimension members. If a hierarchical relationship exists, the top-level member name is generally the same as the dimension name.

**trace allocations** A Profitability feature that enables you to visually follow the flow of financial data, either forwards or backwards, from a single intersection throughout the model.

**trace level** The level of detail captured in a log file.

**traceability** The ability to track a metadata element to its physical source. For example, in Essbase Studio, a cube schema can be traced from its hierarchies and measure hierarchies to its dimension elements, date/time elements, measures, and, ultimately, to its physical source elements. See also lineage.

**traffic lighting** Color-coding of report cells, or pins based on a comparison of two dimension members, or on fixed limits.

**transformation** 1) A process that transforms artifacts so that they function properly in the destination environment after application migration; 2) In data mining, the modification of data (bidirectionally) flowing between the cells in the cube and the algorithm.

**translation** See currency conversion.

**Transmission Control Protocol/Internet Protocol (TCP/IP)** A standard set of communication protocols linking computers with different operating systems and internal architectures. TCP/IP utilities are used to exchange files, send mail, and store data to various computers that are connected to local and wide area networks.

**transparent login** A process that logs in authenticated users without launching the login screen.

**transparent partition** A shared partition that enables users to access and change data in a remote database as though it is part of a local database.

**triangulation** A means of converting balances from one currency to another through a third common currency. For example, to convert balances from the Danish krone to the British pound, balances could be converted from the krone to the euro and from the euro to the pound.

**triggers** An Essbase feature whereby data is monitored according to user-specified criteria that, when met, cause Essbase to alert the user or system administrator.

**trusted user** Authenticated user.

**tuple** MDX syntax element that references a cell as an intersection of a member from each dimension. If a dimension is omitted, its top member is implied. Examples: (Jan); (Jan, Sales); ( [Jan], [Sales], [Cola], [Texas], [Actual] ).

**two-pass** An Essbase property that is used to recalculate members that are dependent on the calculated values of other members. Two-pass members are calculated during a second pass through the outline.

**unary operator** A mathematical indicator (+, -, \*, /, %) associated with an outline member. The unary operator defines how the member is calculated during a database roll-up.

**Unicode-mode application** An Essbase application wherein character text is encoded in UTF-8, enabling users with computers set up for different languages to share application data.

**unique member name** A nonshared member name that exists only once in a database outline.

**unique member outline** A database outline that is not enabled for duplicate member names.

**upgrade** The process of deploying a new software release and moving applications, data, and provisioning information from an earlier deployment to the new deployment.

**upper-level block** A type of data block wherein at least one of the sparse members is a parent-level member.

**user directory** A centralized location for user and group information, also known as a repository or provider. Popular user directories include Oracle Internet Directory (OID), Microsoft Active Directory (MSAD), and Sun Java System Directory Server.

**user variable** A variable that dynamically renders data forms based on a user's member selection, displaying only the specified entity. For example, a user variable named Department displays specific departments and employees.

**user-defined attribute (UDA)** An attribute, associated with members of an outline to describe a characteristic of the members, that can be used to return lists of members that have the specified associated UDA.

**user-defined member list** A named, static set of members within a dimension defined by the user.

**validation** The process of checking a business rule, report script, or partition definition against the outline to ensure that the object being checked is valid.

**validation rules** Rules used in FDM to enforce data integrity. For example, in FDM, validation rules ensure that certain conditions are met after data is loaded from FDM to the target application.

**value dimension** A dimension that is used to define input value, translated value, and consolidation detail.

**variance** The difference between two values (for example, between planned and actual values).

**version** A possible outcome used within the context of a scenario of data. For example, Budget - Best Case and Budget - Worst Case where Budget is scenario and Best Case and Worst Case are versions.

**vertical application server cluster** A cluster with multiple application server instances on the same machine.

**view** A year-to-date or periodic display of data.

**visual cue** A formatted style, such as a font or a color, that highlights specific data value types. Data values may be dimension members; parent, child, or shared members; dynamic calculations; members containing a formula; read-only data cells; read-and-write data cells; or linked objects.

**WebLogic Server home** A subdirectory of Middleware home containing installed files required by a WebLogic Server instance. WebLogic Server home is a peer of Oracle homes.

**weight** A value assigned to an item on a scorecard that indicates the relative importance of that item in the calculation of the overall scorecard score. The weighting of all items on a scorecard accumulates to 100%. For example, to recognize the importance of developing new features for a product, the measure for New Features Coded on a developer's scorecard would be assigned a higher weighting than a measure for Number of Minor Defect Fixes.

**wild card** Character that represents any single character (?) or group of characters (\*) in a search string.

**WITH section** In MaxL DML, an optional section of the query used for creating reusable logic to define sets or members. Sets or custom members can be defined once in the WITH section and then referenced multiple times during a query.

**workbook** An entire spreadsheet file with many worksheets.

**workflow** The steps required to process data from start to finish in FDM. The workflow consists of Import (loading data from the GL file), Validate (ensures that all members are mapped to a valid account), Export (loads the mapped members to the target application), and Check (verifies accuracy of data by processing data with user-defined validation rules).

**Workspace Page** A page created with content from multiple sources including documents, URL, and other content types. Enables a user to aggregate content from Oracle and non-Oracle sources.

**write-back** The ability for a retrieval client, such as a spreadsheet, to update a database value.

**ws.conf** A configuration file for Windows platforms.

**wsconf\_platform** A configuration file for UNIX platforms.

**XML** See Extensible Markup Language.

**XOLAP** An Essbase multidimensional database that stores only the outline metadata and retrieves all data from a relational database at query time. XOLAP supports aggregate storage databases and applications that contain duplicate member names.

**Y axis scale** A range of values on Y axis of charts displayed in Investigate Section. For example, use a unique Y axis scale for each chart, the same Y axis scale for all Detail charts, or the same Y axis scale for all charts in the column. Often, using a common Y axis improves your ability to compare charts at a glance.

**Zero Administration** A software tool that identifies version number of the most up-to-date plug-in on the server.

**ZoomChart** A tool for viewing detailed information by enlarging a chart. A ZoomChart enables you to see detailed numeric information on the metric that is displayed in the chart.



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