Profitability and Cost Management User's Guide, 11.1.2.4

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Part I
Introduction to Profitability and Cost Management

In Introduction to Profitability and Cost Management:

- About Profitability and Cost Management
- Getting Started
To maximize profitability, a business must be able to accurately measure, allocate, and manage costs and revenue. Oracle Hyperion Profitability and Cost Management is an analytic software tool that manages the cost and revenue allocations that are necessary to compute profitability for a business segment, such as a product, customer, region, or branch. Profitability and Cost Management enables you to use cost decomposition, consumption-based costing and scenario-playing to measure profitability for effective planning and decision support.

Profitability and Cost Management is accessed through Oracle Hyperion Enterprise Performance Management Workspace. As the Web client for Profitability and Cost Management, EPM Workspace enables you to access and interact with other installed software, including the following:

- Oracle Hyperion EPM Architect
- Oracle Hyperion Planning
- Oracle Hyperion Reporting and Analysis
- Oracle Hyperion Financial Management
- Oracle Smart View for Office
- Third-party applications, such as Microsoft Excel
**Architecture**

Profitability and Cost Management runs on top of Oracle Essbase and uses other related software to handle and calculate a variety of data. Figure 1 on page 22 shows architecture for Standard Profitability and Cost Management models. Detailed Profitability and Cost Management models include relational database data in addition to Essbase data. Management Ledger models are similar except calculation and reporting data are contained in a single ASO cube.

The model metadata from EPM Workspace and EPM Architect is used in the creation of Profitability and Cost Management models. The calculated results can be output in a variety of reporting and analysis tools. For details, see the *Profitability and Cost Management Administrator’s Guide*. Also see “Essential Concepts” on page 22 and “Modeling Process” on page 23.

**Essential Concepts**

To use Profitability and Cost Management, you must understand the following essential concepts:

- **Dimensions**—Data categories used to organize data for 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.

- **Applications**—Related sets of dimensions and dimension members that are used to meet a specific set of analytical or reporting requirements.
Models—Applications with analytical structures created in Profitability and Cost Management that apply allocation logic to dimensions and members. They include cost allocation stages and drivers to reflect existing or proposed business cases.

“Modeling Process” on page 23 describes the relationships among these components.

Modeling Process

Before you can build a model, the dimensions and members must be defined using Performance Management Architect to build the database outline, or main objects within each stage of the model. This guide contains some information. The Oracle Hyperion Profitability and Cost Management Administrator’s Guide and the Oracle Hyperion Enterprise Performance Management Architect Administration Guide contain full instructions. The financial and other data required for allocation are imported to an Essbase multidimensional database for Standard Profitability and Management Ledger, or from a preexisting relational database for Detailed Profitability.

After dimensions are defined, you can build a customized model in Profitability and Cost Management that represents the network of allocations required for the products or services. Within the model, assigned drivers specify how data is calculated, using standard or customized formulas. Assignments control the flow of calculations, to accurately reflect the allocation of costs and revenues, and to determine profitability. The model is validated for structure and integrity. Using the model, you calculate imported financial data, and produce performance metrics and profitability reports.

After a valid model is created, you can use it to create different versions or scenarios of the original model, enabling you to evaluate the impact of the proposed changes on the bottom line.

Requirements analysis is an important part of designing applications and models. See “Steps to Create Standard Profitability Models” on page 44, “Steps to Create Detailed Profitability Models” on page 200, and “Steps to Design and Create Management Ledger Models” on page 326 for more detailed overviews of the modeling process.

Security roles determine what tasks you can perform within Profitability and Cost Management. For example, not all users are able to create applications, although most can create models. For questions about security, check with a systems administrator.

See the following sections for information about getting started with Profitability and Cost Management:

- “Types of Profitability and Cost Management Applications” on page 24
- “Launching Profitability and Cost Management” on page 33
- “Accessing Output Log Files” on page 34
- “Viewing and Filtering Dimensions and Members” on page 35

If Profitability and Cost Management has just been installed, an application must be created before models can be built. For more information, see Appendix A, “Creating Profitability and Cost Management Applications.”
Types of Profitability and Cost Management Applications

Subtopics

- Standard Profitability and Cost Management Applications
- Detailed Profitability and Cost Management Applications
- Management Ledger Profitability and Cost Management Applications

Profitability and Cost Management offers three different types of applications that are used in different ways:

- “Standard Profitability and Cost Management Applications” on page 24 is more focused on contribution analysis, following the flow of cost and revenue funds through all stages of the process to determine where funds are coming from and where they are going.
- “Detailed Profitability and Cost Management Applications” on page 25 provides a single step allocation of pools or rates to profit objects to a single source and destination, for the purpose of analyzing profitability. Detailed Profitability utilizes a relational database for model artifact storage, calculations, and reporting views.
- “Management Ledger Profitability and Cost Management Applications” on page 26 offers management reporting and modeling with data structured similarly to users’ Oracle General Ledger or Oracle Hyperion Financial Management implementations. Allocations and other calculations required for management reporting outputs are performed using a more freeform approach than is supported in Standard Profitability models.

For a simple comparison of components of each type of Profitability application, see Appendix B, “Comparison between Standard and Detailed Profitability Applications”.

Standard Profitability and Cost Management Applications

A Standard Profitability and Cost Management model enables you to monitor and control direct contribution data for the entire model. The input amounts, the flow of cost and revenue and final destination of the funds can be tracked for both cost and revenue to ensure that resources are used to best advantage and profitability can be easily demonstrated. Calculation results are posted to individual cost centers or accounts.

Data for the Standard Profitability and Cost Management model is housed in both Essbase multidimensional databases and relational databases. You create the model in Performance Management Architect or Profitability Applications, and define the hierarchy of accounts, activities, and operations within the organization using dimensions and dimension members. An AllocationType dimension is imported from Performance Management Architect. This dimension is used to correctly allocate costs and revenue, and store direct allocations and allocation genealogy.

After the application is deployed to Standard Profitability and Cost Management, you build the model, creating the drivers and assignments that generate the flow of funds to specific cost and revenue allocations. The models are constructed using up to nine stages, with up to three
dimensions per stage. The allocations for each stage are passed to the next stage based on
calculations and formulas that you specify in the drivers and assignments. To mirror the reality
of the flow in the organization, the allocations may pass between stages (interstage), skip stages,
or include allocations that are iterative within the same stage (intrastage).

Points of View (POVs) represent a specific instance of the model, and can be used to view or
calculate different versions of a model; for example, to view values for different months or
quarters, to compare budget versus actual figures, or to play scenarios to measure the impact of
various changes on the bottom line.

The model is validated after creation to ensure that all allocations are have been accounted for,
and calculations are balanced for each stage.

You deploy the Calculation and Reporting databases, and then calculate the model, and analyze
the results.

For instructions on creating and working with Standard Profitability applications, see Part II,
“Working with Standard Profitability Applications.”

**Detailed Profitability and Cost Management Applications**

A Detailed Profitability and Cost Management model employs a user-defined schema to organize
relational tables with existing data and associated lookup tables to extend that data. Data for the
Detailed Profitability and Cost Management model is housed in relational databases only.

You create the model in Performance Management Architect, and define the business
dimensions, aliases, measures, and so on within the organization. Within Profitability and Cost
Management, the data is mapped to the application to enable you to build the Detailed
Profitability model. The application can handle extremely large volumes.

The application does not use a hierarchical structure, but processes all allocations in a flow
between a single Source and Destination combination. Allocation is handled through a restricted
MeasuresDetailed dimension, rather than creating an AllocationType as in Standard
Profitability. The MeasuresDetailed dimension contains a limited set of members to process all
allocations.

After the application is deployed to Detailed Profitability and Cost Management, you build the
model, creating the drivers and assignments that generate the flow of funds. The models are
constructed using a single Source and Destination table combination for selected Measures, with
up to five Source dimensions, and up to 25 Destination dimensions. The allocations are
completed based on calculations and formulas that you specify in the drivers and assignments.

Points of View (POVs) represent a specific instance of the model, and can be used to view or
calculate different versions of a model; for example, to view values for different months or
quarters, to compare budget versus actual figures, or to play scenarios to measure the impact of
various changes on the bottom line.

The model is validated after creation to ensure that all allocations are accounted for, and that
calculations are balanced for each stage.

The model can be calculated, and the results analyzed.
Management Ledger Profitability and Cost Management Applications

Management Ledger applications are designed for use by analysts who have deep domain experience in the computation and reporting methods of management reporting, but who may not have much experience with Essbase and scripting syntax or programming languages.

Similar to Standard Profitability applications, data for Management Ledger applications is housed in both Essbase multidimensional databases and relational databases. You create applications in Performance Management Architect, and define the hierarchy of accounts, activities, and operations within the organization using dimensions and dimension members.

After the application is deployed, you build the model to show the flow of funds to specific cost and revenue allocations. Both the source and destination ranges of allocations are defined as calculation rules using the Profitability and Cost Management user interface. As for Standard and Detailed Profitability application types, points of view (POVs) represent a specific instance of the model, and can be used to view or calculate different versions of a model; for example, to view values for different months or quarters, to compare budget versus actual figures, or to play scenarios to measure the impact of various changes on the bottom line.

In Management Ledger models, there is no concept of stages or layers. All structure is controlled through the organization of rule sets and rules under POVs. For each POV, calculation rules are organized into groups that run against the same or similar region of the database and at the same or similar time. These groups are called rule sets. They determine the order in which calculation rules run. Calculation rules can inherit default member selections from the POV or rule set level so users can define a region of the database once and use it many times without having to specify it each time. These defaults are called “contexts”.

The model is validated after creation to ensure that all allocations are have been accounted for, and calculations are balanced. Following validation, you deploy the database, and then calculate the model, and analyze the results.

For details, see Part IV, “Working with Management Ledger Applications.”.

Common Profitability and Cost Management Dimensions

Subtopics

- About Profitability and Cost Management Dimensions
- Common Dimension Types

The listed topics describe dimensions that apply to all three types of Profitability and Cost Management applications, unless noted.
About Profitability and Cost Management Dimensions

Profitability and Cost Management uses dimensions and members created in Performance Management Architect to represent many of the structural elements of the business model in an Essbase application outline. The following are dimensions used by all types of Profitability and Cost Management applications:

- Business dimensions that reflect the business-specific elements of the model, such as departments, accounts, activities, customers, or products; they may apply to one or more stages or models.
- POV dimensions that identify a specific point of view or version of the model, such as year, scenario, period, and version; version dimensions enable you to maintain multiple versions of a model and can be used to create alternate, or what-if, scenarios of the model, or different perspectives.
- Attribute dimensions that enable analysis based on the attributes or qualities of dimension members. Attributes describe characteristics of data, such as the size or color of products.
- Alias dimensions (optional), used to assign alternate names, descriptions, languages, or other items that help to define dimensions.

Note: For more information about these, see “Common Dimension Types” on page 29.

There are also system dimensions, such as the Measure and AllocationType dimensions for Standard Profitability models, that are populated from Performance Management Architect into Profitability and Cost Management. These are described in the following sections:

Some Performance Management Architect dimension types are available for use in Profitability and Cost Management models:

- Account
- Entity
- Version
- Time
- Country
- Currency

Note: See the Oracle Hyperion Enterprise Performance Management Architect Administration Guide for information on using these dimension types.

The database outline provides the data structure for the model, and includes calculation instructions and formulas. Dimensions in the Essbase outline are hierarchical. Data is stored at dimension intersections. Each stage in a standard or detailed profitability model may include up to three dimensions.
Caution! Members must not be repeated within the same dimension; however, a member can be repeated across several dimensions.

Figure 2 on page 28 shows a sample Essbase outline of a standard profitability calculation database, shown on the Essbase console.

Figure 2  Standard Profitability Dimension Outline in Essbase

Dimensions exist as Shared or Local:

- **Shared** dimensions, which reside in the Shared Library in Performance Management Architect, can be used by multiple applications.

- **Local** dimensions are detached, independent dimensions that only exist in one application, such as Profitability and Cost Management. These dimensions are used only for the application for which they have been created.

Although there is no physical limit to the number of dimensions and members that can be created, performance issues can occur with large dimensional structures.

The dimensions are created and maintained in Performance Management Architect, and must exist before they can be used in models. Through Performance Management Architect, the Profitability and Cost Management Administrator can select existing dimensions and members from other products, or create new dimensions and members specifically for the model. The common data can be shared and updated between multiple products and applications. The dimensions and their members are available in Profitability and Cost Management applications after the applications are deployed.

Caution! Oracle recommends that you do not add or delete dimensions and dimension hierarchies after the modeling process has begun.
For each dimension, a dimension type and dimension name must be specified:

- The Dimension type is a dimension property that enables the use of predefined functionality in the application. For Profitability and Cost Management dimension types, see “Common Dimension Types” on page 29.

- The Dimension name identifies the contents of the dimension, in relation to the organization or business. For example, a dimension of Account type may be given a dimension name, such as General Ledger or Chart of Accounts. The dimension name does not need to reflect the dimension type, although it may.

To enter or load a data value to an Essbase database, you assign the data value a member from every dimension in the database. This is referred to as the dimension intersection for the data value. A dimension intersection identifies a unique database location or cell.

For detailed information on creating, maintaining and working with dimensions, see the Oracle Hyperion Enterprise Performance Management Architect Administration Guide. For naming conventions for dimensions and members, see the Oracle Hyperion Profitability and Cost Management Administrator's Guide.

**Common Dimension Types**

**Subtopics**

- Profitability and Cost Management Business Dimensions
- Profitability and Cost Management POV Dimensions
- Profitability and Cost Management Attribute Dimensions
- Profitability and Cost Management Alias Dimensions

A dimension type is a dimension property that enables the use of predefined functionality. See “About Profitability and Cost Management Dimensions” on page 27 for summaries of several dimension types that are common to all Profitability and Cost Management application types and are available in the Essbase outline. For details, see the sections listed above.

The specific characteristics of the dimension type manage the behavior and functions of the dimension. Because Profitability and Cost Management, Performance Management Architect and other EPM Workspace products may share certain dimension types, you can leverage the functionality of dimensions for different products.

**Note:** When defining dimensional outlines, there are restricted characters that may not be used for naming. Oracle strongly suggests that you review the Essbase naming conventions described in the Oracle Essbase Database Administrator’s Guide to view the latest restrictions.

For detailed instructions on creating and maintaining the dimensions and members, see the Oracle Hyperion Enterprise Performance Management Architect Administration Guide and the Oracle Essbase Database Administrator’s Guide.
**Profitability and Cost Management Business Dimensions**

The business dimensions in the model contain members that store information that is specifically related to the requirements of the business or organization, such as product types, sales regions, manufacturing processes, general ledger, payroll, departments, and so on.

At least one Business Dimension type must be defined by the user for the application. Business dimensions are created to describe elements within the model, such as business-specific departments, general ledger accounts, activities, locations, customers, and products.

When the Essbase outlines are deployed, the business dimensions are created in the Profitability and Cost Management application as basic or generic dimensions, with no type. This feature enables Profitability and Cost Management to re-use the dimension member and hierarchies that were defined for other applications, such as Planning.

![Figure 3 Example of Standard Profitability Business Dimensions](image)

**Note:** The *Oracle Hyperion Profitability and Cost Management Administrator’s Guide* contains a discussion of business dimension metadata, should you require additional information.

**Profitability and Cost Management POV Dimensions**

A Point of View (POV) dimension is used to present a specific version or perspective of the model. Each model requires at least one dimension to be designated as a POV dimension. The POV dimensions can be whatever is required for the particular model. The following list represents some common sample POV dimensions:
Period — Enables you to analyze strategies and changes over time. Because a model can be based on any unit of time (quarters, months, annual, years, and so on), you can analyze strategies over time, and monitor inventory or depreciation. For detailed instructions on creating time dimensions, see the Oracle Essbase Database Administrator’s Guide.

Year — Identifies the calendar year in which the data has been gathered

Scenario — Identifies a version of the model for a specific time period and set of conditions

**Version Dimension**

Using a specific POV, you can create a POV version that enables you to maintain separate versions of the same POV to monitor the impact of changes to the model, or track different versions of the same model.

Use the Version dimension for the following tasks:

- Create multiple iterations of a model, with slight versions
- Model possible outcomes based on assumptions, or “what-if” scenarios to determine best or worst case scenarios
- Facilitate target setting

By modifying different elements within the Version dimension, you can examine results of the changes, without modifying the original model.

**Profitability and Cost Management Attribute Dimensions**

An attribute dimension is a special type of dimension that is associated with a business dimension. Attributes describe characteristics of data, such as the size and color of products.

You can use the attribute feature to retrieve and analyze data not only from the perspective of dimensions, but also in terms of characteristics, or attributes, of those dimensions. For example, you can analyze product profitability based on size or packaging, and you can make more effective conclusions by incorporating into the analysis market attributes such as the population size of each market region.

User-defined attributes (UDAs) can be associated with members of an outline to describe a characteristic of the members. Users can use UDAs to return lists of members that have the specified UDA associated with them. For more information about UDAs, see the Oracle Hyperion Profitability and Cost Management Administrator’s Guide.

**Profitability and Cost Management Alias Dimensions**

Aliases are alternate names, descriptions, languages, or other items that help to define dimensions. For example, you may refer to a customer number in the system, but you can assign an alias that displays the company name on the screen, to make it easier to identify that client.

You can assign one or more aliases to accounts, currencies, entities, scenarios, periods, versions, years, and user-defined dimension members.

**Note:** Duplicate member names or aliases are not allowed.
For Profitability and Cost Management, the alias must be set in Performance Management Architect. For detailed instructions on creating Alias dimensions, see the *Oracle Hyperion Enterprise Performance Management Architect Administration Guide*.

**Caution!** If an Alias association is deleted in Performance Management Architect, it is not deleted from the model until the application is redeployed into Profitability and Cost Management.

---

When installation is complete, a “Default” alias table is available. After redeployment, you can view the alias on all screens that use the Common Member Selector, including Driver Selections, Assignments, Data Entry, Driver Exceptions and Trace Allocations. Search and filtering is available when the “Show Alias” option is selected.

If you select Show Alias from the Member Selector, and no alias is assigned, the Display Name is displayed within square brackets in the list of members. For example, the member “Product” would be displayed as `[product]` in the list of members.

**Note:** The Alias View is not available on the Select Driver selector, which is accessed when adding or modifying a driver.

For Standard Profitability models, aliases may be cloned if a particular dimension is cloned in Essbase.
Launching Profitability and Cost Management

Profitability and Cost Management can be accessed only through EPM Workspace.

To access Profitability and Cost Management:

1. Ensure the following software components have been configured, started and are running:
   - EPM Workspace
   - Oracle Hyperion Shared Services
   - Performance Management Architect
   - Profitability and Cost Management
   - Essbase, for Standard Profitability applications only

   Contact the Administrator for assistance if any other required software is not available.

2. In the Web browser, access the EPM Workspace Web page.

   By default, the URL is http://SERVER_NAME:19000/workspace/.

   Note: If the installation is customized, the port number may change.

3. Enter the EPM Workspace user name and password.

   Note: Both the user name and password are case-sensitive.

4. Click Log On.

   The main EPM Workspace page is displayed.

5. On the EPM Workspace main menu, select Navigate, then Applications, then Profitability, and then select the model you want to view.
Accessing Sample Models

A sample application is available in the product installation which is used for testing and self-led exploration of functional areas. The sample application includes a small data set and a fully built out model that illustrates various uses of drivers, assignments, and assignment rules.

Oracle Hyperion Enterprise Performance Management System Lifecycle Management extracts and data files are provided to support importing the model metadata, allocation artifacts, and cost and driver data. Essbase .ot1 files are also included as an alternative to the Lifecycle Management extracts. These files are used to create Essbase dimension master cubes to use with the new Application Manager feature to create the sample applications. See the Oracle Fusion Performance Management Sample Models Readme file for details on how to use these files.

You can find the Performance Management Sample Models Readme.docx file at this location:

%EPM_ORACLE_HOME%\products\Profitability\samples

You can find the appropriate sample application files in the following locations:

- For Standard Profitability models:
  %EPM_ORACLE_HOME%\products\Profitability\samples\BksSP82

- For Detailed Profitability models:
  %EPM_ORACLE_HOME%\products\Profitability\samples\BksDP30

Note: The Detailed Profitability sample model is substantially larger than the Standard Profitability sample model, and it may take up to an hour to calculate.

- For Management Ledger Profitability models:
  %EPM_ORACLE_HOME%\products\Profitability\samples\BksML10

Accessing Output Log Files

The following log files are available for information concerning Profitability and Cost Management:

<table>
<thead>
<tr>
<th>Log File</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>hpcm.log</td>
<td>The name of the current log file. The system keeps copies of previous log files (historical log files). Profitability and Cost Management generates an application, server-side log file that collects application-specific messages that are sent from the application or server. By default, the log files are available at C:\oracle\Middleware\user_projects\domains \EPMSystem\servers\Profitability0\logs.</td>
</tr>
</tbody>
</table>
Log File | Description
---|---
SharedServices_Security_Client.log | The name of the current log file. The system keeps copies of previous log files (historical log files).
| A Shared Services Client-side log file provides details regarding the Profitability and Cost Management handshake with Common Security Services.
| By default, the log file is available at C:\oracle\Middleware\user_projects\domains\EPMSystem\servers\Profitability0\logs.

Contact the system administrator for access to these log files.

For additional log files for related products and applications, see the Oracle Enterprise Performance Management System Installation and Configuration Guide.

Common Tasks for Standard and Detailed Profitability Models

This section describes tasks that are common to Standard and Detailed Profitability models. Similar information for Management Ledger models is explained in task descriptions for that model type.

Viewing and Filtering Dimensions and Members

Subtopics
- Using the Common Member Selector
- Sorting Columns
- Using Tree and Grid View Modes
- Using Filters
- Using the Find Feature

Using the Common Member Selector

The Common Member Selector enables you to quickly select and filter dimension members. The selector dialog box is available from several locations within the application, including Driver Selections.

The name of the selected dimension is listed at the top of the selector dialog box, and all available members for the selected dimension are listed in a tree or grid format.

To select members from the Common Member Selector:

1. From the application, click Selector or Add.

   The Select Member dialog box opens, showing all available members.

2. Expand the member list, and select the member.
To search for a member, type the member name in the text box at the bottom of the dialog box and click the Search button.

3 Optional: To filter or modify the display of members, click Context Menu, and select one or more options:
- **Show Tree** displays members for the selected dimension in an expandable hierarchy.
- **Show Grid** displays all members for the selected dimension in a flat, sequential list. This view mode must be selected if you want to filter members.
- **Show Alias** displays the member aliases, or alternate names for members and shared members.
- **Show Name** displays the member names.
- **Filter** is used to filter members.
- **Sort** to select the filter to display the members in ascending, descending or default order.

See “Using Filters” on page 38.

4 Click **OK**.

The selected member is displayed in the required field.

### Sorting Columns

Depending on the screen you are viewing, two methods are available for sorting columns:
- Using the Member Selector (on the Driver Definitions, Driver Selections, Assignments, and Data Entry screens)
- Clicking the column header (Assignments Destinations, Driver Exceptions tab, and Manage Task Flows)

To sort using the Member Selector:

1 On the screen, click the Member Selector at the top of the column that you want to sort.
2 From the drop-down list, select Show Grid.
This step removes the hierarchical format to enable sorting.

3 On the screen, click the Member Selector [ ] again, and choose the sort option that you require:
- Ascending (from lowest to highest)
- Descending (from highest to lowest)
- Default (as displayed in the Essbase database)

The list is redisplayed using the selected sort option.

To sort using the Column Header:
1 On the screen, double-click the column header to display the sort icon:
   - Ascending sort
   - Descending sort
2 Double-click the column header to toggle between sort options.

Using Tree and Grid View Modes

When editing data, you can toggle between two viewing modes to view dimensions and their members:
- Tree View displays dimensions and members in an expandable hierarchy.

```
A
  A1
    A11
    A12
    A13
    A14
```

- Grid View displays the Level 0 members for the selected dimension in a sequential list. The Grid View mode is required to filter dimension members, drivers or measures.

```
A
  A11
  A12
  A13
  A14
```

To change view modes:
1 At the top of the dimension column on the data entry screen, click Context Menu [ ] for the dimension for which you want to change the view mode.
2 Select the required view mode:
   - Select Show Tree to display dimensions and their members in an expandable hierarchy.
Select **Show Grid** to display the Level 0 members for the selected dimension in a sequential list. The Grid View mode is required to filter dimension members, drivers, or measures.

**Using Filters**

Filters are available to refine long lists of members to present only those that meet the filter criteria. The Filter is available on screens that require selections from multiple options, such as Driver Selections, Assignments, Data Entry, and so on.

- When entering a search value in a filter, enter the entire string if the filters are Attribute-based or UDA-based.
- If you require a wildcard at the beginning of a filter, only question marks can be used, as in “?ac”.
- Trailing wildcard symbols, such as asterisks (*) and question marks (?) are supported in assignment rule name and alias filters. For example, enter “B*” to filter members having names or aliases beginning with the letter “B”.

**Note:** You cannot use an asterisk at the beginning or within a filter for assignment rules, such as “*B” or “B*a”.

Using the Filter dialog box, you build the filter in this format:

```
< Member Name > < Operation > < Value > < Condition >
```

If the filter contains more than one statement, the Condition appends additional statements using an AND or OR condition. Brackets for each statement are automatically inserted, and the filters are resolved from left to right.

To filter dimensions and members:

1. **Click Member Selector**
2. **On the Filter drop-down list, select Show Grid.**
   - The list is changed to a grid format, and the Filter option is activated.
3. **On the Filter drop-down list, select Filter**
   - The Filter dialog box is displayed.
4 Under **Parameter**, click the cell to display the drop-down list of available parameters, and select the parameter to be filtered:

- **Name:**
  - Displays Member Name if “Show Name” mode is selected.
  - Displays Alias Name if “Show Alias” mode is selected.

**Note:** For Assignment Rules, Standard Profitability “Name” filter matches criteria both on name and alias simultaneously.

The Detailed Profitability assignment rule matches only on name or alias depending on the type of filter created. If you create a filter on “Name” it matches members only by their name and if you create a filter on “Alias” it matches members only by their alias.

This difference between Detailed and Standard applications is due to differences between Essbase and relational databases. Essbase treats names and aliases as the same thing; the relational databases do not.

- **Attribute** (Attribute, if available)
- **UDA** (User-Defined Attribute, if available)

5 Under **Operation**, select the appropriate filter:

- **Is Equal**
- **Not Equal**

**Note:** Both the EQUAL and NOT EQUAL operations are currently supported to filter Names, Aliases and Attributes.

Only the Is Equal operation is currently supported for UDAs.

When “Name” is selected as the parameter, matching is performed on both names and aliases.

6 Under **Value**, click the cell and select the filter value:
For **Name**, enter the value or text. Matching is performed on both names and aliases.

For **Attributes** or **UDA** dimensions, select the member from the drop-down list of values for the selected Attribute or UDA dimension.

7 **Optional:** If more than one filter statement is to be added, under **Condition**, select the condition governing the filter:
   - **AND**
   - **OR**

8 **Optional:** Repeat step 4 to step 7 for each additional filter.

9 **Click OK.**

The filter is applied to display only those members that meet the filter criteria.

**Using the Find Feature**

The Find feature enables you to locate a single member in a list of members.

The Find feature is available on screens that require selections from multiple options, such as Driver Definitions, Driver Selections, Assignments, Data Entry, and so on. Each Find field is attached to the column in which it resides and can be used only in one column at a time.

To find a member:

1 **Enter the member name in the Find text box at the bottom of the column.**

   You can enter a partial name.

2 **Click the Search button**

   The first match to the selected name is highlighted on the member list.
Part II
Working with Standard Profitability Applications

In Working with Standard Profitability Applications:

- About Standard Profitability Models and Scenarios
- Dimensions in Standard Profitability Applications
- Managing Standard Profitability Models
- Managing Standard Profitability Allocations
- Validating Standard Profitability Models
- Calculating Standard Profitability Models
- Monitoring Standard Profitability Job Status
- Running Standard Profitability Reports
- Managing Smart View Queries in Standard Profitability
Overview of Standard Profitability Models

A model is a representation of part or all of an organization, and contains costs and revenue categories that are similar to the organization’s chart of accounts. Profitability and Cost Management models enable you to accurately trace the processes and activities that contribute to costs and revenue within the organization.

A model is made up of the following elements:

- **Stages**, which organize the steps in the allocation process within the organization.
- **Dimensions**, which are data categories that are used to organize business data for retrieval and preservation of values. Within Profitability and Cost Management, the following types of dimensions are used:
  - **System dimensions**, such as the Measure and AllocationType dimensions:
    - AllocationType dimensions are used to correctly allocate costs and revenue and to store direct allocations and genealogy.
    - Measures dimension contains the dimensions and members required to build, validate, and calculate a model, such as measures for cost, revenue, and driver selections.
  - **Business dimensions**, which describe the objects within each stage in the model, such as products, customers, regions, and so on. The dimensions and members, which are created in Performance Management Architect, are the foundation of the model.
  - **POV dimensions** identify a specific point of view or version of the model, such as year, scenario, period, and version. Version dimensions enable you to maintain multiple versions of a model. These versions can be used to create alternate, or what-if, scenarios of the model, or different perspectives.
  - **Alias dimension** is used to assign alternate names, descriptions, languages, or other items that help to define dimensions.
Attribute dimensions enable analysis based on the attributes or qualities of dimension members. Attributes describe characteristics of data, such as the size or color of products.

UDAs (User-defined attributes) dimensions

Drivers that determine how cost or revenue source values are calculated and allocated. Selected drivers are applied to the entire dimension, a portion of the hierarchy, a single member, or even a single intersection.

Assignments that map source data to destinations, directly or by using defined assignment rules

Financial cost and revenue data, which is imported to Essbase directly through a data file, or manually entered through Profitability and Cost Management.

Some Performance Management Architect dimension types are available for use in Profitability and Cost Management models:

- Account
- Entity
- Version
- Time
- Country
- Currency

See the Oracle Hyperion Enterprise Performance Management Architect Administration Guide for information on using these dimension types.

Together these elements organize the allocation points in the model into a logical flow. Careful modeling can capture the actual processes and activities, enabling you to realistically allocate costs and revenues.

The business, Measure and POV dimensions are created in Performance Management Architect or Profitability Applications, and deployed to the Profitability and Cost Management relational database. Stages, drivers and assignments are created in Profitability and Cost Management.

After you create a model that reflects the current status of the organization, you can use the Copy POV feature to create alternate versions of the base model. The scenarios, or what-if scenarios, provide a risk-free method to predict the potential profitability of new opportunities and strategies, and to evaluate alternatives or changes in the model.

See “Managing Standard Profitability POVs” on page 70.

Steps to Create Standard Profitability Models

The creation of a Profitability and Cost Management standard model requires the following steps:

1. Define the requirements, the allocation methods, and the number and type of stages required, before creating the model in Profitability and Cost Management.
You should establish the business requirements for the model and the reporting expectations. Using pencil and paper, discussion among stakeholders, flowcharting, diagramming software and other tools, draft the conception of what the model needs to contain in order to accomplish the goals. In some instances, it may be useful to identify the results you want to achieve first, and then work backwards to formulate the best strategy to meet these goals.

When designing the Essbase outline, carefully define the reporting objectives and requirements. The effort expended in designing the outline is rewarded when generating reports. For information on creating the database outline, see Oracle Essbase Database Administrator’s Guide.

2. Define dimensions (such as business, Measures, AllocationType, POV dimensions, and so on) using Performance Management Architect to build the database outline, or main objects within each stage of the model. See “Common Dimension Types” on page 29. For instructions on selecting dimensions, see the Oracle Hyperion Profitability and Cost Management Administrator’s Guide.

3. Create model stages to define the calculation order from the beginning of the process to the delivery of the final product or service. Within a Stage, you assign the dimensions that apply to that the primary activity of the stage. The dimensions are sequenced within stages, and stages are sequenced in the order in which they are to be calculated. You can specify up to three dimensions in each stage. See “Setting Standard Profitability Model Stages” on page 63.

4. Create drivers to specify how to calculate cost and revenue data. One dimension must be selected as the driver dimension for each stage. See “Defining Drivers and Formulas for Standard Profitability Models” on page 80.

5. Assign drivers to selected driver dimension members or members of intersections in all stage dimensions. You can assign a driver to the entire hierarchy, or to a portion of the hierarchy, a single member or a single intersection. See “Creating Driver Selections” on page 93.

6. Create assignments for stage intersections using assignment rules or explicit assignments to select dimensions. The destination intersections can be in a downstream stage or within the same stage. See “Working with Standard Profitability Assignments” on page 97.

7. Validate model structure for each stage to ensure the model structure conforms to validation rules, such as completed assignments and no unused drivers. See “Validating Model Structure” on page 143.

8. Create the Essbase database, and populate the database with cost, revenue and driver data, through Profitability and Cost Management or directly into the Essbase database, before generating calculation scripts. See “Importing Standard Profitability Data and Artifacts” on page 77.

9. Load data into the model, either through Profitability and Cost Management or directly into the Essbase database. See the Oracle Hyperion Profitability and Cost Management Administrator’s Guide.

10. Deploy the Calculation databases. See “Deploying the Calculation Database” on page 152.

11. Deploy the Reporting Database. See “Deploying Reporting Databases” on page 155.
12. Run the calculation scripts required to calculate each stage. Monitor the progress of long-running jobs, such as the generation of calculation scripts, and calculation. See Chapter 9, "Monitoring Standard Profitability Job Status".

13. Calculate the Calculation Database to obtain the results of direct assignments for source and destination intersections. See Chapter 8, “Calculating Standard Profitability Models”.

14. Transfer data from the Calculation database which uses Block Storage Option (BSO) to the Reporting database which uses the Aggregate Storage Option (ASO). “Transferring Data” on page 159.

15. Calculate the genealogy data. See “Calculating Multistage Contribution Paths in Genealogy” on page 160.

16. Run the Stage Balancing, Driver Data and Trace Allocation reports. Make any edits or corrections to the model or data, and then rerun the calculations, as required. See these sections:
   - "Generating the Stage Balancing Report” on page 146
   - “Generating the Driver Data Report” on page 148
   - “Tracing Allocations” on page 128

17. Report on the calculated results, using reporting tools, such as Oracle Hyperion Financial Reporting, Smart View, or Oracle Hyperion Web Analysis. You can use the trace allocation feature to visually follow the flow of funds from one stage intersection throughout the entire model, either forwards or backwards.

**Standard Profitability Workspace**

Accessed from EPM Workspace, the Profitability and Cost Management workspace contains two main areas:

- Use the Task Areas pane to navigate among the processes required to build, validate, and calculate the model, and to report results,
- Use the Contents pane to view task information, enter or modify data, and perform tasks associated with the creation and maintenance of a model and its data.
The Profitability and Cost Management workspace includes these items:

1. The Performance Management Architect main menu at the top of the window displays the common EPM Workspace menu options (Navigate, File, View, and Tools), and the Profitability and Cost Management main menu options, including Model, Allocations, Validate, Reporting, Calculate, Job Process and Help.

2. Application Name tab shows the name of the currently active application.

3. The Task Areas is used to select the tasks required to build, modify, validate model structure, and calculate models. You can also generate reports, or follow the allocation chain throughout a model.

   **Note:** When you change a Task Area, the Point of View selection that exists in the current task is retained. This feature enables you to move from screen to screen without being required to reselect the POV. The POV selection state remains the same until it is changed by the user and the POV "refresh" icon is clicked.

4. The title bar displays the name of the window currently displayed in the contents pane.

5. The Information Bar offers shortcut instructions for the currently selected task.

6. The contents pane displays the screen for the currently selected task, such as Driver Definition or Model Summary.
Dimensions in Standard Profitability Applications

In This Chapter

- Standard Profitability Measures Dimension ............................................................. 50
- Standard Profitability AllocationType Dimensions ...................................................... 56
- Cloned Standard Profitability Dimensions ............................................................... 57

Profitability and Cost Management uses dimensions and members created in Performance Management Architect to represent many of the structural elements of the business model in an Essbase application outline.

A dimension type is a dimension property that enables the use of predefined functionality. The specific characteristics of the dimension type manage the behavior and functions of the dimension. Because Profitability and Cost Management, Performance Management Architect and other EPM Workspace products may share certain dimension types, you can leverage the functionality of dimensions for different products.

See these sections for information about Profitability and Cost Management dimensions that are common to all application types:

- “About Profitability and Cost Management Dimensions” on page 27
- “Common Dimension Types” on page 29
  - “Profitability and Cost Management Business Dimensions” on page 30
  - “Profitability and Cost Management POV Dimensions” on page 30
  - “Profitability and Cost Management Attribute Dimensions” on page 31
  - “Profitability and Cost Management Alias Dimensions” on page 31

The following sections contain information about System dimensions that are specific to Standard Profitability applications and models:

- “Standard Profitability Measures Dimension” on page 50
- “Standard Profitability AllocationType Dimensions” on page 56
- “Cloned Standard Profitability Dimensions” on page 57
Standard Profitability Measures Dimension

Subtopics

- Standard Profitability Driver Measures
- Standard Profitability Reporting Measures
- Standard Profitability Cost Layer Allocation Measures
- Standard Profitability Revenue Layer Allocation Measures

The Measures dimension is imported from Performance Management Architect. It contains the members required to build, validate, and calculate a model. The members store the data that is used for the allocation process. There are separate measures for Cost and Revenue data.

While the standard Measures dimensions are predefined, users may add any user-defined driver measures to the hierarchy under the member 'UserDefinedDriverMeasures'.

Caution! Do not edit the system members in this dimension, as this may result in the loss of data or the corruption of the model.

The Measures dimension contains members that store the different types of data for business dimension members that are required for the allocation process:

- **Driver Measures**—Store values used as parameters in driver formulas, such as Quantity and Rate. There are ten predefined driver measures. You can also add an unlimited number of user-defined driver measures, but these driver measures must be unique in the Essbase outline.

  To view the members included in the Driver Measures dimension, see “Standard Profitability Driver Measures” on page 51.

- **Reporting Measures**—Designed for ease-of-use in report creation. Reporting measures form alternate hierarchies in the Measures dimensions. Reporting can be done on any measure.

  To view the members included in the Reporting Measures dimension, see “Standard Profitability Reporting Measures” on page 52

  For information on alternate hierarchies in Essbase, see the Oracle Essbase Database Administrator's Guide.

- **Allocation Measures**—System-defined measures that store the cost and revenue inputs from upstream model stages or from data loads and are used to control allocation of calculated and input costs for both costs and revenue.

  Note: The allocation measures in the Measures dimension should not be confused with the DirectAllocation and GenealogyAllocation measures in the AllocationType Dimension, described in “Standard Profitability AllocationType Dimensions” on page 56.
There are separate allocation measures for the Cost Layer Allocation and Revenue Layer Allocation. To view the members included in the Cost Layer and Revenue Layer Allocation Measures dimensions, see “Standard Profitability Cost Layer Allocation Measures” on page 53 and “Standard Profitability Revenue Layer Allocation Measures” on page 55.

**Standard Profitability Driver Measures**

Driver Measures are used in the creation of driver types.

**Table 2  Driver Measures**

<table>
<thead>
<tr>
<th>Member Name</th>
<th>Alias</th>
<th>Description</th>
<th>Calculated or Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>FixedDriverValue</td>
<td>FixedDV</td>
<td>Default measure for use with driver types that require a fixed driver value parameter</td>
<td>Input</td>
</tr>
<tr>
<td>Rate</td>
<td>Rate</td>
<td>Default measure for use with driver types that require a rate parameter</td>
<td>Input</td>
</tr>
<tr>
<td>Quantity</td>
<td>Qty</td>
<td>Default measure for use with driver types that require a quantity parameter</td>
<td>Input</td>
</tr>
<tr>
<td>Weight</td>
<td>Weight</td>
<td>Default measure for use with driver types that require a weight parameter</td>
<td>Input</td>
</tr>
<tr>
<td>Percentage</td>
<td>Percent</td>
<td>Default measure for use with a percentage driver type</td>
<td>Input</td>
</tr>
<tr>
<td>CalculatedDriverValue</td>
<td>CDV</td>
<td>Measure that is the result of the driver formula used in an assignment</td>
<td>Calculated</td>
</tr>
<tr>
<td>TotalDriverValue</td>
<td>TDV</td>
<td>Measure that is used as the denominator in the allocation formula Driver Value/TotalDriverValue(DV/TDV)</td>
<td>Calculated</td>
</tr>
<tr>
<td>EffectiveTotalDriverValue</td>
<td>EffTDV</td>
<td>Measure that is used to store the Effective Driver Total for drivers that have the “Allow idle” box checked when the driver is defined.</td>
<td>Calculated</td>
</tr>
<tr>
<td>OverrideTotalDriverValue</td>
<td>OvrdTDV</td>
<td>User-entered value that overrides the TotalDriverValue measure as the denominator in allocations. This member causes idle calculations to be performed.</td>
<td>Input</td>
</tr>
<tr>
<td>TotalDriverValueAfterReciprocals</td>
<td>TDVAftRcp</td>
<td>Measure that is used as the denominator in allocation formulas for non-reciprocal intrastage and post-stage allocations, when a source is involved in a reciprocal assignment</td>
<td>Calculated</td>
</tr>
<tr>
<td>IdleDriverValue</td>
<td>IdleDV</td>
<td>Measure that is used as the driver value (DV) for calculating IdleCost</td>
<td>Calculated</td>
</tr>
</tbody>
</table>
UserDefinedDriverMeasures  | N/A  | The member UserDefinedDriverMeasures is where the application-specific, user-defined driver measures are stored. Set the ASOMember DataStorage and BSOMember DataStorage properties as follows:
— If this member does not have children, set to StoreData.
— If members are added as children to this member, and all these children have the consolidation symbols of IGNORE, then set to LabelOnly.

**Note:** All driver measures must be unique in the outline. Do not use the name of an existing driver measure in a dimension in the outline as the name of another member (including system, POV and business dimensions); otherwise, the Data Entry screen will not properly display the values.

### Standard Profitability Reporting Measures

Reporting Measures are used to generate reports, using the calculated and input values to generate total costs and revenue for the model. All the non-level-0 reporting measures are calculated.

<table>
<thead>
<tr>
<th>Member Name</th>
<th>Alias</th>
<th>Description</th>
<th>Calculated or Input</th>
</tr>
</thead>
</table>
| GrossCost          | GrossCost | Total cost for an intersection, including all possible inputs:
● Input values
● Prior stage assignments
● Intrastage assignments including reciprocals
This calculation represents the true total cost of the intersection. | Calculated |
| StandardCost       |        | For Standard Basis driver, the calculated cost of StandardCostRate \* TotalDriverValue | Calculated |
| StandardRevenue    |        | For Standard Basis driver, the calculated revenue of StandardRevenueRate \* TotalDriverValue | Calculated |
| InitialCost        | InitialCost | Cost of an intersection before intrastage or reciprocal costs are calculated, including input costs and cost received on assignments from prior stages. | Calculated |
| NetCostAfterIntraStage | NetCostAftInt | Cost of an intersection, including all intrastage cost assignments | Calculated |
GrossRevenue | GrossRev | Total revenue for an intersection, including all possible inputs:
- Input values
- Prior stage assignments
- Intrastage assignments including reciprocals.
This calculation represents the true total revenue for the intersection. | Calculated

InitialRevenue | InitialRev | Revenue for an intersection before intrastage or reciprocal revenue is calculated, including input revenue, and revenue received on assignments from prior stages. | Calculated

NetRevenueAfterIntraStage | NetRevAftInt | Revenue for an intersection after accounting for all types of intrastage revenue assignments | Calculated

Profit | Profit | Value of the calculated profit for the selected intersection. This value is the result of the calculation: \( \text{NetRevenueForAssignment} - \text{NetCostForAssignment} \) | Calculated

**Standard Profitability Cost Layer Allocation Measures**

Cost Layer Allocation Measures are used to control the direct allocation of calculated and input costs.

**Table 4 Cost Layer Allocation Measures**

<table>
<thead>
<tr>
<th>Member Name</th>
<th>Alias</th>
<th>Description</th>
<th>Calculated or Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>UnassignedCost</td>
<td>UnAsgCost</td>
<td>Remainder of cost at a source intersection after all assignment and idle calculations have been completed.</td>
<td>Calculated</td>
</tr>
<tr>
<td>CostAssigned</td>
<td>CostAsg</td>
<td>Total cost assigned from a source to post-stage destinations and non-reciprocal intrastage destinations</td>
<td>Calculated</td>
</tr>
<tr>
<td>CostAssignedIntraStage</td>
<td>CostAsgInt</td>
<td>Sum of costs assigned to intrastage destinations, excluding reciprocal destinations</td>
<td>Calculated</td>
</tr>
<tr>
<td>CostAssignedPostStage</td>
<td>CostAsgPost</td>
<td>Sum of costs assigned to post-stage destinations</td>
<td>Calculated</td>
</tr>
<tr>
<td>OverDrivenCost</td>
<td>OverDrivenCost</td>
<td>For a standard basis driver, if the total cost assigned is greater than the NetCostForAssignment, the overage amount is posted to OverDrivenCost.</td>
<td>Calculated</td>
</tr>
</tbody>
</table>
| IdleCost               | IdleCost   | Depending on the driver type, idle cost is generated differently:
  - For actual basis drivers, idle cost is generated using the allocation formula: \( \frac{\text{IdleDriverValue}}{\text{OverrideTotalDriverValue}} \)
  - For standard basis drivers, idle cost is generated if the total cost assigned is less than NetCostForAssignment. | Calculated           |
<table>
<thead>
<tr>
<th>Member Name</th>
<th>Alias</th>
<th>Description</th>
<th>Calculated or Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetCostForAssignment</td>
<td>NetCostAsg</td>
<td>Total cost available for assignment after accounting for all prior stage,</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>intrastage, and reciprocal assignments.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set the DataStorage (BSO) property to <strong>StoreData</strong>.</td>
<td></td>
</tr>
<tr>
<td>GrossReceivedCost</td>
<td>GrRecCost</td>
<td>Sum of all costs assigned from prior stages and intrastage assignments,</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>excluding reciprocals and user input costs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set the DataStorage (BSO) property to <strong>StoreData</strong>.</td>
<td></td>
</tr>
<tr>
<td>StandardCostRate</td>
<td>StandardCostRate</td>
<td>For a Standard Basis driver, the user assigns a standard cost rate,</td>
<td>Input</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and enters that value for use in calculations for the standard basis</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>cost driver, as follows: <strong>CostReceivedPriorStage</strong> = <strong>StandardCostRate</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* <strong>TotalDriverValue</strong></td>
<td></td>
</tr>
<tr>
<td>CostInput</td>
<td>CostInput</td>
<td>User-entered cost value for the intersection</td>
<td>Input</td>
</tr>
<tr>
<td>CostReceived</td>
<td>CostRec</td>
<td>Sum of all costs assigned to an intersection by prior stage and</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>intrastage assignments, excluding costs resulting from reciprocal</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>assignments</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set the DataStorage (BSO) property to <strong>StoreData</strong>.</td>
<td></td>
</tr>
<tr>
<td>CostReceivedPriorStage</td>
<td>CostRecPri</td>
<td>Sum of costs received on assignments from a prior stage</td>
<td>Calculated</td>
</tr>
<tr>
<td>CostReceivedIntraStage</td>
<td>CostRecInt</td>
<td>Sum of all costs received on intrastage assignments, excluding</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>reciprocal assignments</td>
<td></td>
</tr>
<tr>
<td>NetReciprocalCost</td>
<td>NetRcpCost</td>
<td>Net effect of a reciprocal assignment on the amount available for</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>assignment to post-stage and non-reciprocal intrastage destinations</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set the DataStorage (BSO) property to <strong>StoreData</strong>.</td>
<td></td>
</tr>
<tr>
<td>ReciprocalCostAssigned</td>
<td>RcpCostAsg</td>
<td>Total cost assigned to reciprocal destination, excluding costs received</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>from the reciprocal</td>
<td></td>
</tr>
<tr>
<td>ReciprocalCostReceived</td>
<td>RcpCostRec</td>
<td>Total cost received from a reciprocal destination</td>
<td>Calculated</td>
</tr>
<tr>
<td>ReciprocalIntermediateCost</td>
<td>RcpIntCost</td>
<td>Intermediate value calculated for an intersection after simultaneous</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>equations have been applied, but before reciprocal adjustments have</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>been made</td>
<td></td>
</tr>
<tr>
<td>CostPerDrvUnit</td>
<td>Cost Per Driver Unit</td>
<td>This measure is a child of AllocationMeasures. The</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>formula uses the assigned cost (CostAssigned) divided by the sum of all</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>driver values (TotalDriverValue) to calculate the cost for each</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>unit of driver value</td>
<td></td>
</tr>
<tr>
<td>UnitCost</td>
<td>Unit Cost.</td>
<td>This measure is a child of AllocationMeasures. The formula uses the</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>amount of cost at a source intersection (NetCostForAssignment) divided by</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>a user-input quantity to calculate the cost per unit</td>
<td></td>
</tr>
</tbody>
</table>
**Standard Profitability Revenue Layer Allocation Measures**

Revenue Layer Allocation Measures are used to control the direct allocation of calculated and input revenue.

**Table 5  Revenue Layer Allocation Measures**

<table>
<thead>
<tr>
<th>Member Name</th>
<th>Alias</th>
<th>Description</th>
<th>Calculated/ Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>UnassignedRevenue</td>
<td>UnAsgRev</td>
<td>Remainder of revenue at a source intersection after all assignment and idle calculations have been completed</td>
<td>Calculated</td>
</tr>
<tr>
<td>RevenueAssigned</td>
<td>RevAsg</td>
<td>Total Revenue assigned from a source to post-stage and non-reciprocal intrastage destinations</td>
<td>Calculated</td>
</tr>
<tr>
<td>OverDrivenRevenue</td>
<td></td>
<td>For a standard basis driver, if the total revenue is greater than the NetRevenueForAssignment, the overage amount is posted to OverDrivenRevenue.</td>
<td>Calculated</td>
</tr>
<tr>
<td>RevenueAssignedIntraStage</td>
<td>RevAsgInt</td>
<td>Sum of revenue assigned to intrastage destinations, excluding reciprocal destinations</td>
<td>Calculated</td>
</tr>
<tr>
<td>RevenueAssignedPostStage</td>
<td>RevAsgPos</td>
<td>Sum of revenue assigned to post-stage destinations</td>
<td>Calculated</td>
</tr>
<tr>
<td>IdleRevenue</td>
<td>IdleRev</td>
<td>Depending on the driver type, idle revenue is generated differently:</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For actual basis drivers, idle revenue is generated using the allocation formula: IdleDriverValue/OverrideTotalDriverValue</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For standard basis drivers, idle revenue is generated if the total revenue assigned is less than NetRevenueForAssignment.</td>
<td></td>
</tr>
<tr>
<td>NetRevenueForAssignment</td>
<td>NetRevAsg</td>
<td>Total revenue available for assignment after accounting for all prior stage, intrastage and reciprocal assignments.</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set the DataStorage (BSO) property to StoreData.</td>
<td></td>
</tr>
<tr>
<td>GrossReceivedRevenue</td>
<td>GrRecRev</td>
<td>Sum of all revenue assigned from prior stages and intrastage assignments, excluding reciprocal assignments and user input revenue</td>
<td>Calculated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set the DataStorage (BSO) property to StoreData.</td>
<td></td>
</tr>
<tr>
<td>StandardRevenueRate</td>
<td>StandardRevenueRate</td>
<td>For a Standard Basis driver, the user assigns a standard revenue rate, and enters that value for use in calculations for the standard basis revenue driver, as follows: RevenueReceivedPriorStage = StandardRevenueRate * TotalDriverValue</td>
<td>Input</td>
</tr>
<tr>
<td>RevenuInput</td>
<td>RevInput</td>
<td>User-entered revenue values for the intersection.</td>
<td>Input</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Define and store Revenue categories as a hierarchy under 'RevenuInput'.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set the DataStorage (BSO) property to StoreData.</td>
<td></td>
</tr>
<tr>
<td>Member Name</td>
<td>Alias</td>
<td>Description</td>
<td>Calculated/Input</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>----------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>RevenueReceived</td>
<td>RevRec</td>
<td>Sum of all revenue assigned to an intersection by prior stage and intrastage assignments, excluding revenue results from reciprocal assignments&lt;br&gt;Set the DataStorage (BSO) property to StoreData.</td>
<td>Calculated</td>
</tr>
<tr>
<td>RevenueReceivedPriorStage</td>
<td>RevRecPri</td>
<td>Sum of revenue received on assignments from a prior stage</td>
<td>Calculated</td>
</tr>
<tr>
<td>RevenueReceivedIntraStage</td>
<td>RecRecInt</td>
<td>Sum of all revenue received on intrastage assignments, excluding reciprocal assignments</td>
<td>Calculated</td>
</tr>
<tr>
<td>NetReciprocalRevenue</td>
<td>NetRcpRev</td>
<td>Net effect of a reciprocal assignment on the amount of revenue available for assignment to post-stage destinations and non-reciprocal intrastage destinations&lt;br&gt;Set the DataStorage (BSO) property to StoreData.</td>
<td>Calculated</td>
</tr>
<tr>
<td>ReciprocalRevenue Assigned</td>
<td>RcpRevRec</td>
<td>Total revenue assigned to reciprocal destinations, but excluding revenue received from the reciprocal assignment</td>
<td>Calculated</td>
</tr>
<tr>
<td>ReciprocalRevenue Received</td>
<td>RcpRevAsg</td>
<td>Total revenue received from a reciprocal destination</td>
<td>Calculated</td>
</tr>
<tr>
<td>ReciprocalIntermediateRevenue</td>
<td>RcpIntRev</td>
<td>Intermediate value calculated for an intersection after simultaneous equations have been applied, but before reciprocal adjustments have been made</td>
<td>Calculated</td>
</tr>
</tbody>
</table>

**Standard Profitability AllocationType Dimensions**

The AllocationType dimension is imported from Performance Management Architect. This dimension is used to correctly allocate costs and revenue, and store direct allocations and allocation genealogy.

**Note:** The AllocationType dimension can be renamed, if required.

In the Essbase outline created by Profitability and Cost Management, the AllocationType dimension contains the following members:

- **AllAllocations** contains the following child members:
  - **DirectAllocation** stores calculated data that has been directly allocated within the model, between a specified source intersection and destination intersection. Direct allocation must be defined as an assignment by the user.
  - **GenealogyAllocation** stores the allocation genealogy that is calculated on indirect links between various concerned intersections in the model. For example, if stages 1-3-5 are selected:
    - Stages 1-3 includes both direct and indirect allocations
    - Stages 3-5 includes only indirect allocations
Genealogy allocation is not directly defined by the user, but exists because of two or more direct allocations. For example, A-B-C allocation genealogy data exists because there is a direct allocation from A to B (A-B) and B to C (B-C).

- **SysAllocVar1** stores the value for intrastage assignments on the virtual link, which is part of the value allocated to another node on the same stage, and is available in the DirectAllocation member.

- **SysAllocVar2** is used to obtain a sum of the source links of DirectAllocation, Genealogy Allocation and SysAllocVar1.

- **SysAllocVar3** stores calculated genealogy data that is used within the system. For example, if stages 1-3-5 are selected:
  - Stages 1-3 includes both direct and indirect allocations
  - Stages 3-5 includes only indirect allocations

  **Caution!** This member is for internal use only. Do not use this member in reports.

- **TotalAllocation** dynamically calculates the sum of the source links of DirectAllocation, Genealogy Allocation and SysAllocVar3.

- **IndirectAllocation** dynamically calculates the sum of the source links of Genealogy Allocation and SysAllocVar3.

The data in these dimensions cannot be modified, and it is not visible in Performance Management Architect or Profitability and Cost Management.

**Caution!** Do not edit the system members in this dimension, as any modifications may result in the loss of data or the corruption of the model.

The system automatically generates the AllocationType dimension if the user creates an application using the wizard, and checks “Auto Create Local Dimensions.” If the user selects “Create Blank Application,” the user must create their own dimensions and select the AllocationType dimension type.

When you create reports, the AllocationType dimension enables you to specify which type of allocation data to retrieve.

**Cloned Standard Profitability Dimensions**

In instances where a dimension occurs in one or more stages in a model, after the model is deployed to Essbase and opened in Performance Management Architect, an automatically-added cloned dimension is displayed. The cloned dimensions create a distinct version of the dimension for each stage in which it is used. Cloned dimensions are not be visible in the Performance Management Architect Settings dialog box.
For example, if you create a dimension called “Department,” and use this dimension in some stages within the model, after the model is deployed to Essbase, you see the cloned dimensions in the model:

Department (original dimension)

- GLDepartment (Cloned dimension for stage with prefix GL)
- OPSDepartment (Cloned dimension for stage with prefix OPS)
- OPSDepartment_intra (Cloned dimension for stage with prefix OPS that allows intrastage assignments).

**Caution!** Do not modify these cloned dimensions in Performance Management Architect, as they are maintained by Profitability and Cost Management.

If additional members are required, add the new members only to the original dimension. The new members are added to the cloned dimensions when the application is redeployed.

**Note:** Any updates to cloned dimensions are not passed to Profitability and Cost Management and Essbase.
About Managing Standard Profitability Models

The Managing Models options are used to build the top-level structure of a model, and to control model preferences and connections.

From the Model Summary, you can view system information and set model-level preferences.

Within the Stages section, you assign Essbase dimensions to each stage defined in the model, and create the intersections in which data for the stage is stored.

Points of View (POVs) are used to create various versions of a model; for example, to hold budget versus actual figures, or to play scenarios to measure the impact of various changes on the bottom line.

To facilitate data entry, you can load data to Essbase or through data entry screens in Profitability and Cost Management. The staging tables, which are created by the Profitability and Cost Management administrator, can be used to load model information, such as driver definitions, driver selections, assignments, and so on, to Profitability and Cost Management.

See these sections to manage the models:

- “Working with the Standard Profitability Model Summary” on page 60
- “Setting Standard Profitability Model Stages” on page 63
- “Working with Standard Profitability Points of View” on page 69
- “Importing Standard Profitability Data and Artifacts” on page 77
Working with the Standard Profitability Model Summary

Subtopics

- System Information Tab
- Setting Model Level Preferences

The Model Summary displays details of the system information for the selected application, and enables you to modify model level preferences.

The Model Summary contains these tabs:

- “System Information Tab” on page 60
- “Setting Model Level Preferences” on page 62

System Information Tab

The System Information tab provides detailed information for the selected model, including the relational database, Essbase connections, authorized users and associated system components.

Most of the system information is read-only; however, you can enter or modify the names for the Calculation and Reporting applications and databases.

To access the System Information tab:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. From Task Areas, select Manage Model, and then Model Summary.

The System Information tab is displayed.
Table 6  System Information Tab

<table>
<thead>
<tr>
<th>Tab Area</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profitability RDB Information</td>
<td>Name of the relational database (RDB) server and the database in which the model data resides. The Schema version being used with the selected application is also displayed.</td>
</tr>
<tr>
<td>Essbase Information</td>
<td>Name of the Essbase multidimensional database cluster or server that contains the model structure and the name of the associated database. Enter or modify the name of the Calculation and Reporting applications and databases. See the Oracle Essbase Database Administrator's Guide for restricted words and characters.</td>
</tr>
<tr>
<td>User Information</td>
<td>User ID for the user who is authorized to access the Profitability and Cost Management database, and all associated security roles for that user.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Ensure that this user has been granted access to the Essbase databases and the application. See the Oracle Hyperion Profitability and Cost Management Administrator's Guide.</td>
</tr>
<tr>
<td>System Components Information</td>
<td>Details for each component in the installation, as follows:</td>
</tr>
<tr>
<td></td>
<td>- <strong>System</strong> displays the name of the EPM component.</td>
</tr>
<tr>
<td></td>
<td>- <strong>Cluster</strong> displays the name of the cluster or server hosting that component.</td>
</tr>
<tr>
<td></td>
<td>- <strong>HTTP Port</strong> displays the port being used by the component.</td>
</tr>
<tr>
<td></td>
<td>- <strong>HTTPS Port</strong> displays the secure port being used by the component, if available.</td>
</tr>
<tr>
<td></td>
<td>- <strong>Version/Build</strong> displays the version and build number for the listed component.</td>
</tr>
</tbody>
</table>

You can sort the columns by clicking any column header. The System and Host columns are sorted alphabetically, and the Ports and Version/Build columns are sorted numerically.
Setting Model Level Preferences

You can customize the application to use the display preferences. The settings on the Model Level Preference tab apply to the entire model.

You also specify Essbase connection information for the selected model.

**Caution!** Although you can change preferences at any point in the life cycle of a model, changes made later in the cycle may result in data loss.

To set model level preferences:

1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application that you want to view.
2. From **Task Areas**, select **Manage Model**, then **Model Summary**, and then select the **Model Level Preference** tab.
3. Under **Model Preferences** on the **Model Level Preference** tab, select one or more preferences to control the content of the model. The available preferences are described in Table 7.

**Table 7**   Model Level Preferences

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost Model</td>
<td>Display all associated costs in modeling editors of the application</td>
</tr>
<tr>
<td>Revenue Model</td>
<td>Display all associated revenue in modeling editors of the application</td>
</tr>
<tr>
<td>Allow Intrastage Assignment</td>
<td>Enable the user to create multiple cost or revenue assignments within one stage.</td>
</tr>
<tr>
<td>Allow Multidimensional Stages</td>
<td>Enable the user to create a model stage that is composed of up to three dimensions</td>
</tr>
</tbody>
</table>
4 Under Essbase Connection Information, enter Essbase connection information for the model. The required information is described in Table 8.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cluster</td>
<td>Select the logical name of the Essbase server that provides the connection to the Essbase databases. This name may point to a clustered or non-clustered Essbase server.</td>
</tr>
<tr>
<td>Authentication Type</td>
<td>Select Single Sign-On as the Essbase authentication type.</td>
</tr>
<tr>
<td>Connection Type</td>
<td>Select the type of connection:</td>
</tr>
<tr>
<td></td>
<td>• Embedded</td>
</tr>
<tr>
<td></td>
<td>• APS</td>
</tr>
<tr>
<td></td>
<td>See the Oracle Hyperion Provider Services Administration Guide.</td>
</tr>
<tr>
<td>APS URL</td>
<td>Activated only if APS is selected as the Connection Type</td>
</tr>
<tr>
<td></td>
<td>Select the URL for the APS that represents the Logical Web Application (LWA) of the server on which Oracle Hyperion Provider Services is running.</td>
</tr>
<tr>
<td></td>
<td>The available APS servers are registered in Shared Services registry during configuration.</td>
</tr>
<tr>
<td></td>
<td>By default, the APS URL is <a href="http://localhost:13080/aps/JAPI">http://localhost:13080/aps/JAPI</a>.</td>
</tr>
</tbody>
</table>

5 Under Application Type, Standard Allocation is displayed.

The application type is selected when the application is created in Performance Management Architect, and cannot be changed.

Note: To create a Detailed Allocation application, see Chapter 14, “Managing Detailed Profitability Models”.

6 Optional: Under Calculation Control, select Concurrent Calculation to enable certain steps within the calc script to be split into multiple scripts that runs concurrently in Essbase, to take advantage of the Exalytics platform’s parallel architecture.

In Number of Threads, select how many calc scripts you want Essbase to execute at one time.

7 Click Save.

### Setting Standard Profitability Model Stages

Subtopics
- Adding Model Stages
- Modifying Model Stages
- Deleting Model Stages

In Profitability and Cost Management, you create model stages to reflect each major process or activity in the business. You assign dimensions to each stage to define the intersections where
data for the stage is stored. Stages exist only in Profitability and Cost Management, and are not recognized in Performance Management Architect or in Essbase.

A stage can be created for almost any type of requirement, such as general ledger accounts, markets, resource groupings, materials, work categories, equipment, processes, products, subassemblies, service offerings, customer categories, and specific customers. You can define up to nine stages per model. The stage name must be unique for each model or application.

You must assign at least one dimension to each stage, and each stage may have up to three dimensions. The same dimension may be assigned to more than one stage; however, a unique stage prefix must be set to distinguish the dimension and stage combination. The number of dimensions within a stage may vary. For example, one stage might have three dimensions, and another may have one or two. If you require more than one dimension per stage, see “Setting Model Level Preferences” on page 62 to enable that model level preference.

The stages should be sequenced logically from the first to the final process because that sequence is followed when costs and revenue are calculated. The results that are calculated and stored in one stage become the source values to be allocated in the following stage. You create allocations that require multiple steps by defining a calculation sequence through the stages. Cost decomposition values related to the stages are easily retrieved and evaluated.

Within the model stage, the calculation of cost and revenue is controlled by these conditions:

- The order of model stages must be set in the calculation order that reflects the general flow of activities, financial costs and revenue for the entire model.
- Only one dimension within each stage must be designated as a Driver dimension.

From the Stages screen, you order the stages and dimensions order using the Up and Down buttons in the application; however, if any changes are made to the order, name, or prefix for a stage after it has been deployed, the model must be redeployed.

A note, or text record of approximately 1,000 characters, may be entered for each stage record.

For detailed instructions on working with model stages, refer to these sections:

- “Adding Model Stages” on page 64
- “Modifying Model Stages” on page 67
- “Deleting Model Stages” on page 68

Adding Model Stages

Stages represent the network of allocations within the organization. The calculations flow forward from initial allocations to the delivery or resolution. Backward flows are not permitted.

The calculation sequence is critical to obtaining correct results. Calculation order is determined by dimension and stage order, as displayed in the Stages window. In the following example, the model calculation follows the specified sequence, and the results of each stage are carried forward to the next stage:

- Stage 1
  - Dimension 1
Each stage requires a name and a stage prefix.

To add model stages:

1. In an open model, from Task Areas, select Manage Model, then Stages.

The Stages window provides the following information about the selected stage:

- **Order** displays the number of the sequential position of the stage within the model.
- **Name** shows the name of the stage and usually identifies the business function or process of the stage, such as General Ledger or Operating Activities.
- Alphanumeric **Prefix** assigned to the stage
- **Dimensions** included in the stage. The driver dimension for the stage is indicated by the driver icon.
- The **Intra Stage** field displays a check mark to indicate whether intrastage assignments are allowed for the stage.

2. Click Add new stage.
3. For **Name**, enter a unique, descriptive name for the stage, to a maximum of 80 characters.
   
   The name should identify the business function or process of the stage, such as General Ledger or Operating Activities.

4. **Optional:** Under **Description**, enter a brief explanation of the type of information that is included in the stage, to a maximum of 255 characters.

5. Under **Prefix**, enter a unique alphanumeric prefix for the selected stage, to a maximum of 80 characters.
   
   Stage prefixes are used to distinguish the dimension-stage combination. For example, if the dimension “Department” is used in two stages, the prefix “General Ledger” might be applied to one, and “Process” to the other. The resulting reports display the dimensions as “General LedgerDepartment” and “ProcessDepartment.”

6. **Optional:** If you require allocations within the same stage, select **Allow Intrastage Assignments** to mark the stage for intrastage allocations.

7. **Optional:** If manually created calculation scripts are available, under **Scripts**, enter a **Precalculation** or a **Postcalculation** script name.
   
   Optional pre- and post-calculation scripts are manually created in script editors in the EAS console for execution from Profitability and Cost Management. The scripts, which are stored in Essbase, enable users to initialize Essbase cells to the correct values.
   
   Based on the type of script selected for a stage, they are run to prepare the stages for allocations or reporting, as follows:
   
   - Pre-calculation scripts are run before the stage calculation scripts.
   - Post-calculation scripts are run after the stage calculation scripts.

8. **On the Stage Dimensions toolbar**, click **Add**.
   
   A line is added to the list of Dimensions, showing the next sequential number in the Order. The Dimension list is populated with all dimensions available in the model.
9 Under Dimensions, select a dimension that applies to the new stage.

<table>
<thead>
<tr>
<th>Stage Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

10 Optional: Repeat step 8 and step 9 to add up to three dimensions for each stage.

11 Optional: Under Order, select a dimension, and use the Up or Down buttons to move the dimension to the correct location in the calculation sequence.

12 Under Driver, select the driver dimension for the stage.

13 Click OK.

14 Optional: Select a stage from the Stages table, and use the Up or Down buttons to move each stage to the correct location in the calculation sequence.

### Modifying Model Stages

Model stages can be easily modified; however, if you modify any items after the model is deployed, the model must be redeployed.

To modify model stages:

1 Optional: Modify metadata, such as dimension members, in Performance Management Architect, and deploy the modifications to Profitability and Cost Management before you modify the stages.

2 In an open model, from Task Areas, select Manage Model, then Stages.

3 Select the stage to be modified, and click Edit Stage.

4 Modify any of these items:
   - Name
   - Description
   - Prefix
   - Intrastage Setting
   - Scripts

5 Optional: Under Dimension, modify the selected dimensions as required.

6 Optional: Under Order, use the Up or Down buttons to reposition the dimensions in the correct sequence.

7 Optional: Under Driver, select a different driver dimension for the stage.

8 Click OK.
Optional: Select a stage and use the Up or Down buttons to reorder the stages.

Note: This operation reorders the calculation and invalidates all assignments and assignment rules selections pertaining to this stage.

10 Redeploy the model if any items (Other than Stage Name, Description, Order of the dimensions in a stage) are modified.

Note: Stage Name, Description, Order of the dimensions do not influence the Essbase cube deployed state.

Deleting Model Stages

Deletion of a model stage automatically changes the calculation of the model. Any driver associations and assignments set for the stage dimensions are also deleted. After a stage is deleted, you must resequence the stages to properly reflect the new calculation flow.

To delete model stages:

1 In an open model, from Task Areas, select Manage Model, then Stages.
2 On the Stages dialog box, select the stage to be deleted.
3 Click Delete stage.

A message requests that you confirm the deletion.

Caution! Any driver selections and assignments pertaining to this stage are also deleted.

4 Click Yes to delete the stage and its driver selections and assignments.

Optional: Under Order, use Up or Down to reposition the remaining stages in the correct calculation sequence.
Working with Standard Profitability Points of View

Subtopics

- Standard Profitability POV Status
- Managing Standard Profitability POVs
- Adding Standard Profitability POVs
- Modifying the Standard Profitability POV Status
- Copying Standard Profitability POVs
- Deleting Selected Objects from Standard Profitability POVs
- Deleting Standard Profitability POVs and All Artifacts

The Point of View (POV) for a model provides a specific view of the model information for a selected time period, such as a year, status and scenario. Members for POV dimensions are user-defined, and can provide a rich array of POV combinations for modeling and what-if analysis.

You must have at least one POV dimension, and you can have up to four. The user defines the POV dimensions, and the names of those dimensions. Calculations are performed using the specific data, drivers and assignments of that POV for different months or situations.

The names and structure of POV dimensions for the organization can be completely customized. A typical POV includes the Year, Period, and Scenario. The first step for almost every activity in Profitability and Cost Management is the selection of a POV.

A model can only be edited if the POV is set to “Draft” status. You can modify the POV to reflect new drivers, criteria, or members, enabling you to create alternative scenarios. By comparing these scenarios, you can evaluate how changes affect the processes or bottom line.

You can also create POV versions that enable you to maintain separate versions of the same POV to monitor the impact of changes to the model, or track different versions of the same model.

See these sections for detailed information about POVs:

- “Profitability and Cost Management POV Dimensions” on page 30
- “Standard Profitability POV Status” on page 69
- “Managing Standard Profitability POVs” on page 70

Standard Profitability POV Status

A status must be set for the POV to show the current availability of the model for editing or viewing. The status is not an Essbase dimension.

The POV status must be set to one of the following states:

- Draft — Build or edit the model, and generate dynamic reports.
- Published — View the model, and generate dynamic reports. You cannot edit the model.
- Archived — View the model and generate dynamic reports. You cannot edit the model.
Managing Standard Profitability POVs

A POV displays a particular version of a model for a selected snapshot, such as year, period, and status.

When a new POV is added, the status is automatically set to “Draft” so the POV can be edited. At least one POV dimension is required for a model; however, you can create multiple POV combinations for a single model. A selected POV with stage and layer information can be saved as an EPM Workspace user preference. You can also copy a POV, to begin a model for a new reporting period, or a different scenario. See “Copying Standard Profitability POVs” on page 72.

The POV dimension defined for the application determines the potential POVs available for a model, but all POVs are not automatically available for assignment or data input. You cannot assign drivers or load data for a POV until it has been added to the model.

The following model elements must be specified for each POV combination:

- Drivers for source members
- Assignments, or assignment rule selections
- Driver data
- Cost and revenue data

Use the following procedures to work with POVs:

- “Adding Standard Profitability POVs” on page 70
- “Modifying the Standard Profitability POV Status” on page 71
- “Copying Standard Profitability POVs” on page 72
- “Deleting Selected Objects from Standard Profitability POVs” on page 74
- “Deleting Standard Profitability POVs and All Artifacts” on page 75

Adding Standard Profitability POVs

You add a POV to view the information and calculations for a model for a selected snapshot of the model, such as a year, period, scenario and status.

The values of the parameters available for a model are set in the Essbase Performance Management Architect application.

Note: You cannot access a POV from other task windows until the POV has been added in POV Management.

To add POVs:

1. In an open model, from Task Areas, select Manage Model, then POV Manager.

   The Status tab of the POV Manager screen is displayed. All existing POVs are listed.
2 Click **Add new POV**. 

The Add Point of View dialog box is displayed.

3 Select the parameters in the model to identify the new POV.

Because this is a new POV, the Status is read-only, and set automatically to Draft to enable you to build and edit the model.

4 Click **OK**.

The POV is added to the list.

**Modifying the Standard Profitability POV Status**

The POV Status displays the availability of the model for editing or viewing. A model is available for editing only when the POV Status is set to Draft. When the model is finalized, change the POV status to ensure it cannot be modified.

The POV status can be set to one of these values:

- **Draft** — build or edit the model, and generate dynamic reports.
- **Published** — view the model or generate dynamic reports.
Archived — view the model or generate dynamic reports.

You can change the status back to Draft at any time, in order to edit the model.

**Note:** If you modify the POV, only the status is changed; however you are no longer be able to calculate the model if the status has been set to “Published” or “Archived.”

To change the POV status:

1. In an open model, from Task Areas, select Manage Model, then POV Manager.
   The Status tab of the POV Manager screen is displayed. All existing POVs are listed.

2. Select the POV that is to be modified, then click Edit POV.

3. Under Status, select the new status:
   - Draft
   - Published
   - Archived

   Only the POV status can be changed. To modify any other parameters, you must create a new POV.

4. Click OK.

**Copying Standard Profitability POVs**

You can copy a POV to provide a starting point for a new model or scenario, or to play what-if scenarios with an existing model.

For example, you can begin a period by copying driver selections and assignments from the previous period, or you can create seed data for a forecast scenario by copying data from an actual scenario.

To copy the POV, you must have a Source POV, which contains the information to be copied, and a Target POV, which is destination to which the data will be copied. You can copy information only to POVs with the Status of “Draft” that are listed on the Status tab of the Manage POVs screen. See “Adding Standard Profitability POVs” on page 70.

To copy POVs:

1. **Optional:** If required, create a POV on the Status tab of POV Management to provide the target POV for the copy operation. See “Adding Standard Profitability POVs” on page 70.

2. In an open model, from Task Areas, select Manage Model, then POV Manager.
   The Status tab of the POV Manager window is displayed. All existing POVs are listed.

3. From POV Manager, select the Copy tab.
4 Under **Source POV**, select the POV that is to be copied.

**Note:** The Status for the Source is automatically set to the status assigned to this POV, and cannot be modified on this screen.

5 Under **Target POV**, select the POV that is to be the destination for the copied POV.

**Caution!** The Target POV must exist as a valid POV with the Status of “Draft” on the Status tab of the POV Manager screen, or the copy operation will not start.

6 **Under Copy Configuration**, select the elements of the POV that are to be copied:
   - Under **Layer**, select **Cost Layer**, **Revenue Layer**, or both.
   - Under **Model**, select **Driver Selections**, **Assignments**, or all.
   - Under **Data**, select **Driver values**, **Cost/Revenue values**, or both.

   These options enable you to control the information that is required for the new POV. For example, you may want to include only cost, driver selection and driver values in the POV copy.

7 Perform one of the following tasks:
   - Click **Run Later** to schedule a date and time to copy the POV. See “Scheduling Taskflows” on page 172

   **Note:** If this option is not selected when the task is created, you will not be able to schedule the task.
   - Click **Run Now** to copy the POV immediately.
A confirmation message indicates that the job has started and identifies the assigned taskflow ID. Select **Jobs Status**, and then **Search Task** to monitor the status.

**Caution!** Depending on the size and complexity of the model, this operation may take a significant amount of time.

When the copy is complete, review the copied information under the target POV.

### Deleting Selected Objects from Standard Profitability POVs

Using the Delete tab of the POV Manager screen, you can delete selected objects from a POV. To delete an entire POV, including its associated assignments and driver selections, see “Deleting Standard Profitability POVs and All Artifacts” on page 75.

**Caution!** Oracle recommends that, before deleting a POV, you create a backup directory of the databases in EPM Workspace and Essbase. Contact the administrator for assistance, if required.

To delete selected objects from POVs:

1. Ensure that no other users require the POV and its contents.
2. In an open model, from **Task Areas**, select **Manage Model**, then **POV Manager**. The POV Manager screen is displayed.
3. Select the **Delete** tab.
4. Under **POV**, select the POV that contains the artifacts that you want to delete.
5 Under Stages, select one or more source stages that contain the artifacts to be deleted. You can use the Ctrl key to select multiple, random stages, or the Shift key to select the first and last stages in a range.

6 Under Delete Configuration, select the elements of the configuration that are to be deleted:
   - Driver Selections (Rules or Exceptions or both)
   - Assignments (Assignment Rule Selections or Regular Assignments or both).

7 Click Delete.

   A confirmation message is displayed.

8 Click OK to confirm the deletion.

   The selected records are removed. See hpcm.log to view a record of the operation, including the selections and the number of records expunged.

---

**Deleting Standard Profitability POVs and All Artifacts**

When a POV is deleted, all objects within that POV are deleted, including the associated assignments and driver selections.

To erase data in Essbase, before deleting the POV, perform the “Clear All” function for the selected POV. See “Calculating Direct Allocation Data” on page 157.

Caution! Oracle recommends that, before deleting a POV, you create a backup directory of the databases in EPM Workspace and Essbase. Contact the administrator for assistance, if required.

To delete POVs and their associated assignments and drivers:

1 Ensure that no other users require the POV and its contents.

2 Optional: To erase data in Essbase, select Clear All data as described in “Calculating Direct Allocation Data” on page 157.

3 In an open model, from Task Areas, select Manage Model, then POV Manager.

   The POV Manager screen is displayed.

4 Select the Status tab.

5 Under Available POVs, select the POV you want to delete.

6 Click Delete POV

   A confirmation message is displayed.

Caution! When a POV is deleted, all objects within that POV are deleted.

7 Click Yes to confirm the deletion.

   The POV is removed from the list and is no longer available for selection.
Querying Standard Profitability Model Statistics

After a model is built, it may be useful to determine the number and usage of certain components, such as stages or POVs and their dimensions, assignments, and drivers.

The SQL-based query, `modelstats.sql`, enables users to generate specific statistics for their models. These read-only queries can be used to view model characteristics and performance statistics, or to evaluate the impact of changes. The statistics can also be used to diagnose problems with models and performance.

In order to use the new query, you must have existing database views:

- Stages (HPM_EXP_STAGE)
- POVs (HPM_EXP_POV)
- Driver Selections (HPM_EXP_DRIVER_SEL)
- Assignments (HPM_EXP_ASSIGNMENT)
- Assignment Rule Selections (HPM_EXP_ASGN_RULE_SELECTION)

**Note:** The Drivers view (HPM_EXP_DRIVER) is not used with model statistics.

You must have proper access to the selected database and database views. For information on creating database views, see Appendix B, in the *Oracle Hyperion Profitability and Cost Management Administrator’s Guide*.

After installation, the SQL script, `modelstats.sql`, is included in the application folder. The query is database neutral and can be run against MS SQL or Oracle databases. If the model contains errors, they are not reported in the query results, and the existing statistics are still generated.

Oracle recommends that you run the query for any application before you make significant changes and then save the queries and capture the output for comparison with later results. This snapshot provides you with baseline statistics for the application, against which you can compare subsequent changes or view information to evaluate the potential impact of proposed changes. For example, if an assignment rule is used thousands of times, any modification to that rule may have a much larger effect than originally expected.

➢ To run the `modelstats.sql` query:

1. **Locate the database and ensure you have proper access to the following items:**
   - Database Views
   - Profitability and Cost Management RDB Schema

2. **Navigate to the `modelstats.sql` query:**
   - For Windows, `%hyperion_home%\products\Profitability\database\Common\MSSQLServer\view`
   - For UNIX, `$hyperion_home$\products\Profitability\database\Common\MSSQLServer\view`
Note: Because database views and queries are updated frequently, check to ensure that you have the latest versions.

3 **Open the `modelstats.sql` query, and modify the “%” variable for each query to specify the model components against which the query is to be run, such as `application_name like '%',` or `layer_name like '%'`.

For example, in the code `application_name like '%',` replace the percentage sign with the application name:

```
application_name like 'bikes2'
```

Note: You can use the percentage sign as a trailing wildcard to broaden the query range. For example, enter ‘b%’ to apply the query to all applications that begin with “b.” To query all applications, enter ‘%’.

4 **Review the query results.**

<table>
<thead>
<tr>
<th>APPLICATION_NAME</th>
<th>STAGE_NAME</th>
<th>STAGE_ORDER</th>
<th>DIM1_NAME</th>
<th>DIM1_CODE</th>
<th>DIM1_NAME</th>
<th>DIM1_CODE</th>
<th>IS_INTRNS</th>
<th>STAGE_PRFX</th>
</tr>
</thead>
<tbody>
<tr>
<td>bikes2</td>
<td>General Ledger</td>
<td>1</td>
<td>Departments Accounts</td>
<td>(null)</td>
<td>N</td>
<td>GL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bikes2</td>
<td>Business Operations</td>
<td>2</td>
<td>Departments Activities</td>
<td>(null)</td>
<td>Y</td>
<td>OPS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bikes2</td>
<td>Products</td>
<td>3</td>
<td>Products</td>
<td>(null)</td>
<td>N</td>
<td>PROD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bikes2</td>
<td>Customers</td>
<td>4</td>
<td>Customers</td>
<td>(null)</td>
<td>N</td>
<td>CURT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bikes2</td>
<td>Market</td>
<td>5</td>
<td>Customers Products Regions</td>
<td>N</td>
<td>N</td>
<td>MRT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bikes2</td>
<td>General Ledger</td>
<td>1</td>
<td>Departments Accounts</td>
<td>(null)</td>
<td>N</td>
<td>GL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bikes2</td>
<td>Business Operations</td>
<td>2</td>
<td>Departments Activities</td>
<td>(null)</td>
<td>Y</td>
<td>OPS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bikes2</td>
<td>Products</td>
<td>3</td>
<td>Products</td>
<td>(null)</td>
<td>N</td>
<td>PROD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bikes2</td>
<td>Customers</td>
<td>4</td>
<td>Customers</td>
<td>(null)</td>
<td>N</td>
<td>CURT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bikes2</td>
<td>Market</td>
<td>5</td>
<td>Customers Products Regions</td>
<td>N</td>
<td>N</td>
<td>MRT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The results depend on the query selections. Some example queries are displayed below:

- **List All Stages and the Dimensions in the stage for matching Applications** displays all stages and the associated dimensions for the selected application, ordered by the application name and stage order.

- **List explicit Assignment counts by source Stage for both Cost & Revenue Layers** for the selected application, displaying the application name, layer, and source and destination stage names.

- **List Rule Names and how frequently they are used in an Application** displays a breakdown of individual rules and the number of times each one is used.

- **List the Driver usage count by stage in Driver Association** displays the usage count of each driver for the selected application, stage, and layer. As an example, you can use this information to determine whether some drivers are not really used, and whether you can safely delete them.

To view all queries, review the most current version of the `modelstats.sql` file.

## Importing Standard Profitability Data and Artifacts

You can enter data and model information directly into Profitability and Cost Management; however, the data entry may be very time-consuming. To facilitate the population of the
application, you can import model definitions, such as POVs, stages, drivers, driver selections, assignments, and assignment rule selections, directly into Profitability and Cost Management using a set of import staging tables and import configurations.

**Note:** Dimensions, costs, driver data, and assignment rules cannot be imported from staging tables.

Model data is imported from several sources:

- Model definition data is imported from staging tables.
- Model definition can be imported using Lifecycle Management. See the *Oracle Enterprise Performance Management System Lifecycle Management Guide*.

**Caution!** Oracle recommends that, before importing data or artifacts, you create a backup directory of the databases in EPM Workspace and Essbase. Contact the administrator for assistance.

In order to import staging tables, you must create an import configuration to specify which tables are to be imported. The configuration, which can be saved, can be used multiple times to import the same set of data. When importing the complete model, there are table dependencies that apply; however, these dependencies are not applicable if you are only importing sections of the model.

For detailed instructions on creating staging tables and import configurations, see the *Oracle Hyperion Profitability and Cost Management Administrator's Guide*. 
About Standard Profitability Allocations

In Profitability and Cost Management, allocations control how costs and revenues are distributed throughout the model to specified accounts or elements. A driver is used to determine how the funds for each allocation are calculated. The calculated results are assigned from a source to a destination, as the funds flow through the model.

See these sections for information about managing allocations:

- “Standard Profitability Cost and Revenue Layers” on page 79
- “Defining Drivers and Formulas for Standard Profitability Models” on page 80
- “Selecting Standard Profitability Drivers” on page 92
- “Working with Standard Profitability Assignments” on page 97
- “Using the Data Entry Window” on page 122
- “Tracing Allocations” on page 128

Standard Profitability Cost and Revenue Layers

When the drivers are created in a model, they are assigned to a cost or revenue layer, or both. The cost and revenue members are treated as two separate layers of financial data. The cost layer reflects outgoing values from the model (such as expenses, rent, salaries, and so on). The revenue
layer represents incoming values (such as sales earned, product or maintenance revenue, and so on).

Although the layers may be virtually identical in structure, each layer uses different drivers and assignments and produce different results. In general, you work with one layer at a time.


## Defining Drivers and Formulas for Standard Profitability Models

While assignments direct the data from a source to a destination, the drivers that are associated with these assignments are used to calculate the value of the allocations. The drivers provide the formulas for allocating source intersection values to destination intersections. Driver measures and formulas promote model flexibility by enabling you to use variables to represent model elements, and mathematical operands to calculate driver values.

Allocations range from simple calculations between one source and one destination, to complex calculations that are distributed to multiple destinations. When you create a driver, you associate a formula to control how the value is calculated. You can select from predefined formulas, such as an even split or percentage driver, or create custom formulas.

Driver measures, such as Volume and Rate, are used as variables in the construction of the formulas that drive the calculations. Any 0-Level member of the Measures dimension may be selected as a driver measure. Driver measures are created and stored in the Essbase database, but are not validated until the model is deployed.

Drivers can be applied to both cost and revenue values, and can be reused with many values. The formula associated with the driver is stored, not the data. If the driver is modified, the changes are automatically applied to every allocation using that driver.

**Note:** If a driver used in the allocation is modified or deleted, you must regenerate the calculation script, and recalculate the model. The Essbase database structure is not impacted by this type of change, but it will calculate different results.

For each driver required in the model, perform these tasks:

- Define the new driver, including the model layer to which it is attached, and the associated formula. See “Defining Drivers” on page 87.
- Associate the driver with dimension members that use this calculation. See “Selecting Standard Profitability Drivers” on page 92.
- Assign the driver to the selected members of the driver dimension to set the calculation flow. “Working with Standard Profitability Assignments” on page 97.

One dimension must be selected as the driver dimension for each stage. The driver formula is used to obtain the driver Value and then calculate the result.
For example, during the calculation process, the value for the “NetCostForAssignment” measure of the source intersection is multiplied by a factor to determine the amount to allocate to each destination intersection. The calculated amount is placed in the “CostReceivedPriorStage” measure of the destination intersection (or the “CostReceivedIntraStage” measure, if it is an intrastage assignment).

The driver factor is the ratio between the driver value of the destination intersection that is currently being calculated and the total driver value of all destination intersections. The value for the current destination intersection is stored on the assignment in the “CalculatedDriverValue” driver measure. The total for all drivers is stored in the “TotalDriverValue” driver measure. An “OverrideTotalDriverValue” driver measure is entered on the source intersection only if tracking idle costs is enabled. Driver totals are always attached to the source.

For information and instructions about working with formulas and drivers, see these sections:

- “Driver Formulas” on page 81
- “Defining Drivers” on page 87
- “Modifying Driver Definitions” on page 90
- “Creating New Driver Definitions From Existing Driver Definitions” on page 91
- “Deleting Driver Definitions” on page 92

**Driver Formulas**

A driver formula can include any combination of variables, functions, and numeric values. For each element in the driver formula, you must select the driver measure and location.

Drivers are attached to source member intersections in allocations. The driver contains the formula used to calculate the factor by which measures are multiplied for the source intersection value. A separate factor is calculated for each destination intersection.

These types of driver formulas available:

- Predefined Driver Formulas are used to perform common calculations. See “Predefined Driver Formulas” on page 82.
- Custom Driver Formulas are used to calculate unusual or specific situations. See “Custom Driver Formulas” on page 83.
- Driver Basis Types offer alternative means of setting rates on a formula. Actual basis drivers use calculated results, and the standard basis driver enables you to set an assigned rate on a driver to allocate the costs downstream. See “Driver Basis Types” on page 86.
- “Priority Sequence Drivers” on page 87 are used to define which allocations within a stage should be calculated first
Predefined Driver Formulas

Drivers use predefined formulas to perform common calculations. For each element in the driver formula, you must select the driver measure and location. For predefined drivers, the formula is set in the calculation script.

**Note:** The same driver measure cannot be mapped to a different variable in the formula. For example, in the formula \( \text{"DriverValue"} = \{\text{Rate}\} \times \{\text{Quantity}\} \), you cannot select the same measure for both Rate and Volume.

The various driver types and the predefined formulas that they use are described in **Table 9**.

<table>
<thead>
<tr>
<th>Driver Type</th>
<th>Driver Formula</th>
<th>Available Locations</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Even</td>
<td>Calculated DriverValue = 1.0;</td>
<td>None</td>
<td>Applies the same value to all measures using this driver.</td>
</tr>
<tr>
<td>Simple</td>
<td>Calculated DriverValue = {FixedDriverValue};</td>
<td>● Source</td>
<td>Applies a preset value for the driver to each measure using the driver.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Destination</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Assignment</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Global</td>
<td></td>
</tr>
<tr>
<td>Percentage</td>
<td>Calculated DriverValue = {Percentage};</td>
<td>● Source</td>
<td>Enter a set percentage of the total value on an assignment destination on the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Destination</td>
<td>Data Entry page or directly into Essbase.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Assignment</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Global</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>For example, if there are three measures, you may allocate 30% to the first</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>assignment, 65% to the second and 5% to the third.</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>If the percentage total is less than 100% and idle capacity is enabled on</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>the driver, the unallocated remainder is treated as idle capacity.</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>When using percentage drivers, if the TotalDriverValue (the sum of all</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>driver values) is greater than 100, the driver is treated as a Simple Driver</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>and the allocations are performed. The result is full allocation of source</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>to the destinations based on the ratio of percentage values entered.</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Note:</strong> If a Percentage driver is used in reciprocal allocations, the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TotalDriverValueAfterReciprocals must always be a value less than 100, in</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>order to avoid “Unassigned Costs.” Any allocations performed after the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>reciprocal relationships are resolved converts the Driver to a simple driver.</td>
</tr>
</tbody>
</table>

Simple Weighted  | Calculated DriverValue = \{FixedDriverValue\} \times \{Weight\};  | ● Source            | Enter a value that you specify to represent the weight, or relative       |
|                 |                                                               | ● Destination       | importance, for the task or process.                                     |
|                 |                                                               | ● Assignment        |                                                                             |
|                 |                                                               | ● Global            |                                                                             |
### Custom Driver Formulas

If the predefined driver formulas do not accurately reflect the required calculation flow for the model, you can create a custom driver formula using the Formula Editor. The formula created to calculate the driver value may be simple, or it may be a complex formula that includes IF statements.

The assignment for which the custom driver is used automatically provides the FIX context in the calculation script. The formula should be defined considering the FIX context. The FIX context always FIXes on assignment blocks for the assignment. For information on the FIX command, see the *Oracle Essbase Database Administrator’s Guide*.

A custom formula can include unlimited variables, both custom and predefined, such as Volume or Rate. The custom variables must be defined in Performance Management Architect in the Measures dimension.

You can additionally specify a location for a variable used within the custom formula to enable the custom formula to be used in different stages. The Location (Global, Source, Destination or Assignment) must be defined with the variable using curly brackets ({}), even though curly brackets are not used in Essbase. The location is resolved dynamically during calc script generation.

<table>
<thead>
<tr>
<th>Driver Type</th>
<th>Driver Formula</th>
<th>Available Locations</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable</td>
<td>Calculated DriverValue = {Rate}* {Quantity};</td>
<td>Source, Destination, Assignment, Global</td>
<td>Applies the result of the calculation of the rate and volume to each measure using that driver.</td>
</tr>
<tr>
<td>Weighted Variable</td>
<td>Calculated DriverValue = {Quantity} * {Rate} * {Weight};</td>
<td>Source, Destination, Assignment, Global</td>
<td>Enter a value that you specify to represent the weight, or relative importance, for the task or process. For example, the formula might represent the number of technical support calls in a department, weighted by the length or complexity of each type of call. As another example, the formula could represent the assignment of staff to different tasks — each one weighted slightly differently to distinguish different pay grades or responsibilities.</td>
</tr>
<tr>
<td>Fixed and Variable</td>
<td>Calculated DriverValue = {FixedDriverValue} + ({Quantity} * {Rate} * {Weight});</td>
<td>Source, Destination, Assignment, Global</td>
<td>Applies the result of the calculation of the quantity and volume, multiplied by the rate and weight for each measure using that driver.</td>
</tr>
<tr>
<td>Custom</td>
<td>Calculated DriverValue = {Custom Variable};</td>
<td>Source, Destination, Assignment, Global</td>
<td>See &quot;Custom Driver Formulas&quot; on page 83 for information on creating custom formula types.</td>
</tr>
</tbody>
</table>

---

83
Note: If a location for a variable is not specified, it is considered to be an Assignment.

You can use functions (operands) between elements to control the formula calculation, including simple operands such as the following examples:

- Add (+)
- Subtract (-)
- Multiply (*)
- Divide (/)

Each formula must end with a semicolon (;).

This example displays a generic format for a custom driver formula:

```
"CalculatedDriverValue" = {Custom Variable -> Source} * {Custom Variable -> Destination};
```

The following example displays a custom driver formula which does not use any location syntax:

```
"CalculatedDriverValue" = "Variable1" * "Variable2" -> "[GL Departments].[NoMember]";
```

Custom formulas must be mathematically correct, and syntactically correct according to Essbase syntax, with the following exceptions for Profitability and Cost Management:

- Custom Variables (driver measure) and Locations (Global, Source, Destination or Assignment) must be enclosed in curly brackets, even though curly brackets are not used in Essbase.
- Variables specified using the Profitability and Cost Management syntax should not be surrounded by double quotes.

Profitability and Cost Management resolves and translates the location syntax into Essbase syntax. After resolving the correct dimensional references on any variables with locations that use Profitability and Cost Management syntax, the formula is copied into Essbase calculation scripts and verified for Essbase syntax within the scripts.

For instructions on using the Formula Editor to create custom formulas, see the Oracle Essbase Database Administrator's Guide.

**Custom Driver Formula Examples**

The custom driver formula examples assume the following values:

- Stage 1 Dimensions: GL_Department x GL_Account
- Stage 2 Dimensions: ACT_Department x ACT_Activity

The calculation script generation process in Profitability and Cost Management inserts the script defined for a custom driver for any source that uses this driver. The system-generated script creates the FIX statements to pinpoint the source and destination combinations defined by the assignment logic attached to the source.
The custom driver script need not provide this FIX, but it can take advantage of it, or modify the FIX to reference data from different locations that is normally defined for the DESTINATION, SOURCE, ASSIGNMENT, or GLOBAL measure locations.

Common uses for custom drivers rely on the ability to reference data that is stored in locations other than the normal four, enabling the user to enter driver measures at higher levels in the hierarchy or at fewer intersections.

The default FIX statement that the CalculatedDriverValue measure computed reflects the link between source and destination. Using the example stages, the FIX created by the system-generated script is shown below:

\[ \text{GL\_Department.member} \times \text{GL\_Account.member} \times \text{ACT\_Department.member} \times \text{ACT\_Activity.member} \]

where the dimension members for each dimension reflect the source intersection and destination intersection for the allocation being performed.

The examples below modify this default FIX to retrieve driver measures from another location. Remember that if the member referenced by the default FIX is correct for the purposes you need not override it.

**Example 1:** Referencing a driver measure located at only one of the destination dimensions cross NoMember in the other (in this case ACT\_Department)

```plaintext
"CalculatedDriverValue" = "DriverMeasure" ->"[ACT\_Activity.NoMember]" ->"[ GL\_Department.NoMember]" ->"[ GL\_Account.NoMember];
```

Use this formula when there is a single driver value for the entire department; for example, square feet, meters, or headcount.

**Example 2:** Referencing a driver measure located at the parent of one of the destination dimensions cross NoMember in the other dimension:

```plaintext
"CalculatedDriverValue" = "DriverMeasure" ->"[ACT\_Activity.NoMember]" - >"[@PARENT(ACT\_Department)]" - >"[ GL\_Department.NoMember]" - >"[ GL\_Account.NoMember];
```

Alternatively, you can reference the Generation of the ancestor from which you want to retrieve the value using @ANCEST function. In this example, the driver pulls the DriverMeasure value from the Generation 2 ancestor of the destination’s Department member:

```plaintext
"CalculatedDriverValue" = "DriverMeasure" ->"[ACT\_Activity.NoMember]" - >"[@ANCEST(ACT\_Department, 2)]" - >"[ GL\_Department.NoMember]" - >"[ GL\_Account.NoMember];
```

Other common uses are to key the driver value calculation on the nature of the source/destination combination. This option enables the driver to adapt to specific circumstances based on characteristics of the intersections involved in the allocation.

**Example 3:** Referencing a different measure for driver calculation based on the UDA of one destination member:

```plaintext
IF(@ISUDA(Activity,"UDA1"))
```
"CalculatedDriverValue" = {Measure1->Destination};
ELSE IF (@ISUDA(Activity, "UDA2"))
"CalculatedDriverValue" = {Measure2->Destination};
ELSE IF (@ISUDA(Activity, "UDA3"))
"CalculatedDriverValue" = {Measure3->Destination};
ENDIF;

Use this formula to key the driver formula from a characteristic of the destination, such as product form factor or customer classification. Note that the syntax in the example: '{Measure1->Destination}' does not match usual Essbase calc Script syntax. The use of the curly brackets ({ }) enables Profitability and Cost Management to interpret the '-' >Destination' shorthand, and to replace it with the actual destination being targeted. When the script is deployed to Essbase, Profitability inserts the correct member references and syntax.

**Driver Basis Types**

The basis types can be applied to drivers in both the Cost and Revenue layers. A single stage can contain both “Actual Basis” and “Standard Basis” drivers; however, if a driver is changed from one basis driver type to the other, the calculation script for the affected Stage must be regenerated.

When defining drivers, you can specify whether you want to use a calculated or assigned rate, using these driver basis types:

**Actual Basis Driver Type**

The Actual Basis costing uses the ‘NetCostForAssignment’ value on the source to allocate costs downstream. The Actual Basis driver uses the formula:

\[
\text{CostReceivedPriorStage} = \text{NetCostForAssignment on the Source} \times \frac{\text{CalculatedDriverValue}}{\text{TotalDriverValue on the Source}}
\]

If Driver Data is missing, the results are posted on the Stage Balancing Report to ‘Unassigned Cost’ at the intersection and stage level.

**Standard Basis Driver Type**

In circumstances where seasonal variations or fluctuating account values exist because of the timing differences between accounting data capture and actual usage of resources, you can set a standard rate that allows for consistency of measurements across time periods.

Using the Standard Basis Driver, you set a precalculated standard rate on a driver on the source intersection to allocate the costs downstream. The driver uses the formula:

\[
\text{Standard Rate on the source} \times \text{Quantity on the assignment}
\]

Sources using that driver allocate the product of the Standard Rate on the source, and the Quantity on the assignment to the destination intersections.

**Note:** The Standard Basis driver cannot be used with Even or Percentage driver types.
If Standard Basis is selected, “Allow Idle” is automatically activated. Standard basis drivers can be used on intrastage assignments; however, they cannot be used in reciprocal assignments.

When the user selects a Standard Basis Driver, the Rate is entered on the source in the Measures dimension variable StandardCostRate for the Cost Layer and StandardRevenueRate for the Revenue Layer. The StandardCostRate on the source can be done using cost input data entry screens. The ‘Quantity’ portion is calculated based on how the Driver is defined.

The basis types can be applied to drivers in both the Cost and Revenue layers. A single stage can contain both Actual and Standard Basis drivers; however, if a driver is changed from one basis driver type to the other, you must regenerate the calculation script for the affected stage.

**Priority Sequence Drivers**

In some business models, a driver may use one or more calculated measures in the formula. Dependencies between sources in the same stage may require the allocations to be calculated in a controlled sequence. Priority sequence drivers enable you to define which allocations within a stage should be calculated first.

For example, by setting the driver priority, you ensure that Source A using Driver A is calculated before Source B, using Driver B. The cost or revenue values calculated by allocating Source A first can then be used by Driver B.

Any Level-0 descendant of the Measures dimension can be picked as a driver measure. When defining the driver, enter the Sequence Priority on the Drivers dialog box. The sources associated with drivers that have a lower priority are resolved before sources associated with a driver that has a higher priority. The default value is set to 100, but this value can be changed. The highest priority is 1. The priority must be a positive integer. Sources associated with drivers with the same priority are processed in no defined order.

If you change the priority for a driver, you are potentially changing the calculation order of sources in that stage. In that case, the calculation script for that stage must be regenerated.

**Note:** For intrastage and reciprocal assignments, if the inherent sequence inside these allocations conflict with the Driver Priority Sequence, the conflicting intersections are logged to hpcm.log file.

**Defining Drivers**

1. To define drivers:
   - In an open model, from Task Areas, select Manage Allocations, then Driver Definitions.

The Driver Definitions screen is displayed.
2 Click Add.

3 In Name, enter a unique name for the new driver.

Do NOT use special or restricted characters, such as /, +, or @ signs, in the driver name, as this may cause import operations to fail. See the Oracle Essbase Database Administrator's Guide to view the latest restrictions.
Caution! Oracle strongly suggests that you review the Essbase naming conventions described in the Oracle Essbase Database Administrator’s Guide to view the latest naming restrictions to avoid import failures.

4 Optional: In Description, enter a brief description of the purpose of the driver.

5 Select the Basis Type for the driver:
   - Actual—To use the “NetCostForAssignment” value on the source to allocate costs downstream.
   - Standard—To assign a user-determined standard rate to the driver on the source intersection.

   See “Driver Basis Types” on page 86.

6 From Formula Type, select a formula type for this driver:
   - Even
   - Simple
   - Percentage
   - Simple Weighted
   - Variable
   - Variable Weighted
   - Fixed and Variable
   - Custom

The formula type determines which variables are available for selection. For an explanation of each driver type, see “Defining Drivers and Formulas for Standard Profitability Models” on page 80.

If you select a predefined formula, the actual formula is displayed in the Formula Template tab of the Formula text box. The driver measures that are available for each element are listed in Variable Selection.

If you select a Custom formula, the Formula text box is blank and can be edited.

7 Select the layer to which this driver applies:
   - Cost Layer
   - Revenue Layer
   - Both Cost and Revenue layers

8 Optional: Select Allow Idle to enable this driver to accept idle costs or revenue. This option is automatically activated if the Standard Basis driver is selected.

   After calculation, this information is reported under “IdleCost” or “IdleRevenue.”

9 Optional: In Sequence Priority, enter a driver sequence priority.

By default, 100 is displayed. The highest priority is 1. See “Priority Sequence Drivers” on page 87
10 **Optional:** For Custom formulas only, in **Driver Formula**, enter the user-defined formula.

Measures to be used for custom formula variables must already be defined in Performance Management Architect. Construct the formula using the Formula Editor, as outlined in the *Oracle Essbase Database Administrator’s Guide*.

11 For each variable used in the formula, select these values:

- Under **Measure**, select the measure to be used for the formula.
- Under **Location**, select the location of the measure within the model, so the calculation script can locate the values:
  - **Global**—The measure data is retrieved from the intersection formed by the current POV members. Members for all other dimensions are set to **NoMember**.
  - **Destination**—The measure data is retrieved from the intersection of the destination.
  - **Source**—The measure data is retrieved from the intersection of the source stage.
  - **Assignment**—The measure data is retrieved from the intersection of the destination and source stage.

12 **Optional:** On the **Formula** text box, select **Translated** to view the formula with the actual members displayed.

If you select alternative members under the variable selection, the associated members are changed in the Translated formula.

13 **Click OK to save the new driver.**

The driver is added to the list on the Driver Definitions screen, showing the name, formula type, sequence priority and layer.

14 **Associate the driver with one or more dimension members. See “Selecting Standard Profitability Drivers” on page 92.**

### Modifying Driver Definitions

You can modify any elements for a selected driver.

- **To modify drivers:**

1 **In an open model, from Task Areas, select Manage Allocations, then Driver Definitions.**

   The Driver Definitions screen is displayed.

2 **Select the driver that is to be modified.**

3 **Click Modify .**

   The Driver dialog box is displayed, showing the current details for the driver.

4 **Modify the Driver information as required.**

   You can change any details for the driver, including the name, description, formula type, layer, or variable selection.
If you modify the name, do NOT use special or restricted characters, such as /,+, or @ signs, in the driver name, as this may cause import operations to fail. See the *Oracle Essbase Database Administrator’s Guide* to view the latest restrictions.

---

**Caution!** If you modify a layer associated with a driver, for example, clearing the Cost Layer, then all driver selections for the layer that use the modified driver are deleted.

---

5  Click **OK** to save the modified driver.

6  Regenerate the calculation script and recalculate the model to apply the driver change. See Chapter 8, “Calculating Standard Profitability Models”.

### Creating New Driver Definitions From Existing Driver Definitions

Using the Create Duplicate Driver option, you can copy an existing driver definition, and assign the driver a new name. The copy can be modified as required.

This option enables you to rapidly create many similar drivers without having to reopen the Driver Definition dialog box.

To create new drivers from existing driver definitions:

1  In an open model, from **Task Areas**, select **Manage Allocations**, and then **Driver Definitions**.

   The Driver Definitions screen is displayed.

2  Select the driver that you want to use as a template for the new driver definition.

3  Click **Duplicate Driver**.

   The Create Duplicate Driver dialog box is displayed.

4  Enter the name of the new driver, and then click **OK**.

   **Caution!** Do NOT use special or restricted characters, such as /,+, or @ signs, in the driver name, as this may cause import operations to fail. See the *Oracle Essbase Database Administrator’s Guide* to view the latest restrictions.

The new driver is added to the list of Driver Definitions, showing the same Type and Cost or Revenue details as the original driver.

5  Click **Modify** to view details of the newly created driver.
The Driver dialog box is displayed, showing the current details for the new driver. If required, you can modify any details for the new driver, as outlined in “Modifying Driver Definitions” on page 90.

Deleting Driver Definitions

Caution! If a driver is deleted, all driver selections that used the deleted driver are also removed.

To delete drivers:

1. In an open model, from Task Areas, select Manage Allocations, then Driver Definitions.
   The Driver Definitions screen is displayed.

2. Select the driver you want to delete.

3. Click Delete.
   A message is displayed, asking you to confirm the deletion.

4. Click Yes to delete the driver.

5. Select another driver for the allocation to replace the deleted driver, in order to correctly calculate the allocation.

6. Regenerate the calculation script and recalculate the model. See Chapter 8, “Calculating Standard Profitability Models”.

Selecting Standard Profitability Drivers

After you create a driver, you must associate it with the dimension members to which it applies. When you select drivers, apply a driver selection using these methods:

- Apply the driver to the top-level member of a dimension. The driver is inherited by every member within that dimension.
- Apply the driver to the top-level member of a dimension sub-hierarchy. Only descendants of the selected member inherit the driver.
- Apply the driver to a single member.
- Apply the driver to a single intersection, or exception.

Drivers must be associated with any intersection that contains a cost or revenue value for the value to be allocated. If a driver has not been assigned to an intersection that contains assignments or assignment rules, a “Missing Driver Assignments” error is created during model validation. Driver selections may change from period to period.

The results of any changes to selections are evident when the model is deployed; however, no warnings or errors are displayed if a selection is changed.
Note: If a stage contains only one dimension, a driver selection for a dimension member must be created. If a stage contains two dimensions, it may have either a driver selection for a dimension member, or a driver selection for a single intersection, or both.

For detailed instructions on working with driver selections, see these procedures:

- “Creating Driver Selections” on page 93.
- “Creating Driver Selections for a Single Intersection” on page 94.
- “Modifying Driver Selections” on page 96.
- “Modifying Driver Selections for a Single Intersection” on page 96
- “Deleting Driver Selections” on page 96.
- “Deleting Driver Selections for a Single Intersection” on page 97

Creating Driver Selections

To associate drivers:

1. In an open model, from Task Areas, select Manage Allocations, then Driver Selections.

The Driver Selections screen is displayed.

2. Select a POV, and then click Go.

3. Select a Layer.

4. On the Driver Rules tab, under Stage, select the model stage.

The driver dimension for the selected stage is displayed in the first column, and all dimension members within that driver dimension are listed below.
5 Under the dimension, select the parent level or Level-0 members at which you want to apply the default driver. The parent level may be at the top of the stage, or a parent for a portion of the hierarchy.

6 Under Driver, click the cell to display the selector icon or click Add to select a driver for the parent dimension from the Common Selector, and then click OK. See “Using the Common Member Selector” on page 35.

When the driver is applied to a parent, the same driver is automatically inherited by all descendants. To show the driver is inherited, it is grayed out.

7 Optional: To select a driver other than the inherited driver for one member, perform the following steps:
   a. Expand the parent dimension.
   b. Select the member that requires a different driver.
   c. Select the alternative driver from the Common Selector. See “Using the Common Member Selector” on page 35.

The driver selection is automatically saved.

8 Optional: If you need to set driver for a single intersection, see “Creating Driver Selections for a Single Intersection” on page 94.

Creating Driver Selections for a Single Intersection

To select a driver for a single intersection:

1 In an open model, from Task Areas, select Manage Allocations, and then Driver Selections.

2 Select the POV and the Layer, then click Go.

3 Select Exceptions.

4 Under Stage, select the model stage that contains the intersection.
5 Optional: On the Exceptions tab, click Member Selector to filter the list of available dimensions:
   a. From the drop-down list, select Show Alias or Show Name, as required.
   b. Select the Filter
   c. Enter the filter criteria for one or more dimensions.

   Enter the exact name or alias of the required members, or use a trailing asterisk (*) as a wild card to select a range of members, or a trailing question mark (?) to select a single character. For example, to find all members of a dimension that begins with the letter “M”, enter “M*”. Entering the asterisk before the letter does not work, for example “*M.”

   d. Click OK.

   Only the items that meet the filter criteria are displayed on the Exceptions tab.

6 Click Add.

7 For each dimension listed on the Exception dialog box, click Selector and select the members required for the specific intersection to which you need to apply the exception driver.

   See “Using the Common Member Selector” on page 35.

8 Click OK when all members for the intersection have been selected.

9 Under Drivers, select the exception driver for the intersection.

10 Click OK.

   The driver selection is automatically saved and is displayed in the table.
Modifying Driver Selections

➢ To modify driver selections:
1  In an open model, from Task Areas, select Manage Allocations, then Driver Selections.
2  Select a POV, and then click Go.
3  Select a Layer.
4  On Driver Rules, under Stage, select the model stage.
   The driver dimension for the selected stage is displayed in the first column, and all members
   within that driver dimension are listed below.
5  Under Driver, click the cell that contains the driver to be modified to display the Common Member
   Selector, or click Add to select another driver.
6  From the Common Member Selector, select another driver, and then click OK.
   The driver selection is automatically saved.

Modifying Driver Selections for a Single Intersection

➢ To select a driver for a single intersection:
1  In an open model, from Task Areas, select Manage Allocations, and then Driver Selections.
2  Select the POV and the Layer, then click Go.
3  Select the Exceptions tab.
4  Under Stage, select the model stage that contains the intersection.
5  Under Driver, click the cell that contains the driver to be modified.
   The drop-down and Common Selector are displayed.
6  Click Selector to display the Select Member dialog box.
7  Select the dimension member required for the specific intersection.
8  Click OK.
   The driver selection is automatically saved and is displayed in the table.

Deleting Driver Selections

If a driver selection is deleted, and no new driver is selected, an error is reported during validation
to indicate that an assignment does not have a driver selection.

➢ To delete driver selections:
1  In an open model, from Task Areas, select Manage Allocations, then Driver Selections.
Select a POV, and then click Go.

Select a Layer.

On Driver Rule, under Stage, select the model stage.

Select the row containing the driver selection to be deleted.

Click Delete.

A message asks you to confirm the deletion.

Click Yes to confirm the deletion of the driver.

The driver is deleted from the row.

Deleting Driver Selections for a Single Intersection

Select the intersection that is to be deleted. The entire intersection is removed from the Exception tab.

To delete driver selections for a single intersection:

1. In an open model, from Task Areas, select Manage Allocations, then Driver Selections.
2. Select a POV, and then click Go.
3. Select a Layer.
4. Select the Exceptions tab.
5. Under Stage, select the model stage
6. Select the intersection to be deleted.
7. Click Delete.

A message asks you to confirm the deletion.

Click Yes to confirm the deletion.

The entire intersection is deleted from the row.

Working with Standard Profitability Assignments

While the driver definition determines how cost and revenue flows are calculated, assignments specify where you want the calculated revenue and costs to be allocated.

Assignments define the flow of data from sources to destinations. The flow is established by creating relationships between a source and destination for each node or intersection in the model, the destination for one member becoming the source for the next intersection in the allocation flow.

For each intersection of dimension members within a stage that contains source data, you assign downstream member intersections as destinations.
Assignments can only flow forward, or to the same stage. Cost and revenue allocations are traced from start to finish, and cannot flow backwards. Before a model can be calculated, the assignments are validated against internal flow rules to ensure the integrity of the model. You can skip stages in assignments. For example, a source intersection in Stage One could be assigned a destination in Stage Three.

The flow for a specific process may use some or all of the assignment types. See “Types of Assignments” on page 98.

Assignments are controlled by one dimension member’s intersection within each stage. Assignments are created for a specific Level-0 members' intersection. Assignments can be set individually, or you can create an assignment rule that can be used multiple times.

To create an assignment, select a valid POV and a layer (Cost or Revenue) to make a unique assignment for each time, period, scenario and layer combination. A Source may be applied in the source pane, and the destination is selected in the Destination pane. The destination can be an explicit node or intersection, or an assignment rule. For information on creating assignment rules, see “Working with Standard Profitability Assignment Rules” on page 104.

For detailed instructions on working with assignments, see these sections:

- “Types of Assignments” on page 98
- “Creating Assignments” on page 99
- “Modifying Assignments” on page 102
- “Deleting Assignments” on page 103
- “Working with Standard Profitability Assignment Rules” on page 104

**Types of Assignments**

Assignments may be set in a variety of ways:

- **Interstage Assignments**—Have a source and destination combination located in different model stages. For example, an assignment from Stage 1 to Stage 2.

- **Intrastage Assignments**—Intrastage assignments are assignments for which the source and destination are located within the same stage.

- **Reciprocal Assignments**—Reciprocal assignments are intrastage assignments in which the source and destination for two or more processes transfer costs into each other. A simple reciprocal relationship is defined as the direct allocation from Intersection 1 to Intersection 2, and a direct allocation from Intersection 2 back to Intersection 1. Reciprocal assignments are always intrastage assignments.

**Caution!** Only simple reciprocal loops are supported in Profitability and Cost Management. Complex reciprocal relationships are not supported. For example, a complex reciprocal loop, such as Intersection 1 to Intersection 2 and Intersection 2 to Intersection 3 and Intersection 3 to Intersection 1, is not supported.
As an example of a reciprocal loop, an assignment for the Human Resources department would transfer some portion of costs for processing payroll or employee reports to Information Technology, while costs for administering Information Technology personnel requirements would be allocated back to Human Resources. Each department is a support function that provides services to the other.

When creating the model, the reciprocal assignment is defined by the assignments that are set within the loop. When a reciprocal relationship is detected, a specialized calculation process is followed that resolves the reciprocal assignments first, then continues with the normal assignments.

If a Percentage driver is used in reciprocal allocations, the \( \text{TotalDriverValueAfterReciprocals} \) will always be a value less than 100, in order to avoid “Unassigned Costs.” Any allocations performed after the reciprocal relationships are resolved would convert the Driver to a simple driver.

**Creating Assignments**

Assignments carry costs and revenues from one intersection to another, creating a financial flow within a model.

Oracle recommends the following flow:

1. Create all assignments for a process or allocation in sequence to ensure that all elements are captured.
2. Validate the model structure to verify that no appropriate driver selections are missing.

To create assignments:

1. **In an open model, from Task Areas, select Manage Allocations, then Assignments.**
   The Assignments screen is displayed.

2. **Select a POV for the selected model, and then click Go.**

3. **Select a Layer.**

4. **Beside Source, from the Stage drop-down list, select a model stage for the assignment.**
   The dimensions and members for the selected model stage are displayed.
5 Under Source, select a member from each dimension to create the intersection for the source of the assignment.

The driver is identified in the Driver column. The Destination column is populated with the dimensions and members of the destination stages.

**Note:** To find a member in the hierarchy, type the member name in the text box at the bottom of the column, and then click Search.

6 **Optional:** Under Destination, select Member Selector to filter the list of available destinations:
   a. From the drop-down list, select **Show Alias** or **Show Name**, as required.
   b. Select **Filter**
   c. Enter the filter criteria in one or more dimensions, and then click **OK**.

Enter the exact name of the required members, or use trailing asterisk (*) as a wild card to select a range of members, or a trailing question mark (?) to select a single character. For example, to find all members of a dimension that begins with the letter “M”, enter “M*”. Entering the asterisk before the letter does not work, for example “*M.”

7 Under Destination, click **Add**.
8 Under **Stage**, select the stage that is to be the destination for this assignment:

- For an interstage assignment, select any stage following the Source stage.
- For an intrastage assignment, select the same stage as the Source stage.

**Note:** For stages that allow intrastage allocations, in which the source and destination intersections are within the same stage, the Essbase outline contains separate dimensions to store the destination intersection values. These dimension have the suffix '_intra'. For example, if the stage dimensions are OPS_Products and OPS_Activities, the destination data for intrastage allocations is stored in the OPS_Departments_intra and OPS_Activities_intra dimensions.

9 Under **Step 1**, select the first member of the intersection for the **Destination** of the assignment.

10 Click **Add** to move the selected member to **Selections**.

**Note:** To remove a member from the Selections list, highlight the member to be removed, and click **Remove**. To remove the entire list, click the **Remove All**.
11 Click Next.

12 Under Step 2, select the second member of the intersection for the Destination of the assignment, and then click Next.

13 Optional: Repeat step 9 and step 10 to select additional members. When all members have been selected, the Destination Selection Summary is displayed.

14 Verify the selections are correct, and then click Finish.

Modifying Assignments

You can modify the destination of any assignment; however, you should be aware that any changes will affect the financial flow and the calculation results for the model.
To modify assignments:

1. In an open model, from **Task Areas**, select **Manage Allocations**, then **Assignments**.
   The Assignments screen is displayed.
2. Select the **POV** and **Layer** of the model that contains the assignment to be changed, then click **Go**.
3. Under **Source**, select the model stage and the dimension members’ intersection that contains the source of the assignment.
4. Under **Destination**, select the destination member to be modified.
5. Double-click the destination member cell, and edit the assignment. Begin typing the new member name, and then select the member from the drop-down list.
6. Verify that the modifications are correct.
7. Click **Save** to save the changes.

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**Deleting Assignments**

**Caution!** The deletion of an assignment affects the financial flow and calculation results for the model.

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To delete assignments:

1. In an open model, from **Task Areas**, select **Manage Allocations**, then **Assignments**.
   The Assignments screen is displayed.
2. Select the **POV** and the **Layer** for the selected model, then click **Go**.
3. Under **Source**, select the model stage and the dimension members’ intersection that contains the assignment to be deleted.
   The dimensions and members for the selected stage are displayed.
4. Under **Destination**, select the destination to be deleted.
   To select multiple destinations for deletion:
   - To select a range of destinations, press **Shift** and select the first and last destinations in the range to be deleted.
   - To select multiple random destinations, press **Ctrl** and select individual destinations from the list.
5. Click **Delete**.
   A message asks you to confirm the deletion.
Caution! The financial flow of the model will be modified by the removal of the assignment.

6 Click Yes.

Working with Standard Profitability Assignment Rules

Assignments specify where allocation results are directed. Frequently, models include multiple assignments that use the same parameters. To simplify the creation of multiple assignments that are similar in nature, you can create and reuse assignment rules that specify the assignment parameters.

An assignment rule is a collection of member sets and optional filter sets for a single destination stage. A filter is a collection of criteria that are applied to a dimension. The rules are created based on one or more of the following criteria:

- Membership in a specific branch of the dimension hierarchy
- Member name
- Member alias
- UDAs (User-defined attributes)
- Attribute associations

The destinations returned by an assignment rule are the cross-product of the Level-0 members from all the dimensions in the destination stage, that pass the filter criteria applied to the rule.

While the assignment rules reduce the effort of creating and maintaining many individual assignments, they also react to metadata changes over time, so that the original business logic captured in the rule definition continues to generate correct assignment relationships.

You can create assignment rules, using the following options:

- Define a specific set of member sets and optional filter sets for a single destination stage.
- Define a Same As Source assignment rule that replaces the destination stage dimension members with the selected source when the calculation script is generated. See “Creating Same As Source Assignment Rules” on page 109.

Within a model, the definition of an assignment rule is the same in all POVs. Assignment rule selections can be imported into Profitability and Cost Management, using the HPM_STG_ASGN_RULE_SEL staging table. See the “Standard Profitability Import Staging Tables” section in the Oracle Hyperion Profitability and Cost Management Administrator’s Guide.

Two options are available to create and manage assignment rules, as follows:

- To create an assignment rule and apply it to a source, see “Using the Assignment Rule Wizard” on page 105
To create and manage assignment rules, and easily view the complete list of assignment rules, see “Using the Assignment Rule Definition Screen” on page 115. Note that this option does not allow you to apply the rule to a source.

Using the Assignment Rule Wizard

The Assignment Rule Wizard, available from the Assignments screen, enables you to create an assignment rule AND apply it to a source.

Use the following procedures:

- “Creating Assignment Rules” on page 105
- “Creating Assignment Rules from Existing Assignment Rules” on page 108
- “Creating Same As Source Assignment Rules” on page 109
- “Modifying Assignment Rules” on page 112
- “Deleting Assignment Rules” on page 113
- “Applying an Existing Assignment Rule” on page 114
- “Applying an Existing Same as Source Assignment Rule” on page 114

Creating Assignment Rules

To create assignment rules:

1. In an open model, from Task Areas, select Manage Allocations, then Assignments.

   The Assignments screen is displayed.

2. Select the POV and Layer for the selected model, then click Go.

3. Under Stage, select the stage for the assignment.

   The dimensions and members for the stage are displayed.
4 Under **Source**, select the members of each dimension that create the intersection for the source of the assignment rule. The associated driver for the intersection is identified in the **Driver** column.

When all dimensions of the intersection have been selected, the **Destination** column is populated with this information:

- With the dimensions and members of the destination stages, if there are assignments for this intersection.
- With the names of the destination stages and assignment rules, if they are applied to this intersection.

5 Under **Destinations**, click **Open Assignment Rules Management**.

The Assignment Rules Management dialog box is displayed.

6 In the **Available Rules** column, click **Add**.

The Add Rule dialog box is displayed.
7 Under **Stage**, select the stage for which the rule is to be created.

8 **Optional**: Select **Same As Source** to create an assignment rule to use a single source for one or more destination intersections.

   When the calculation script is generated, the script inserts the selected source into the rule, to create the appropriate allocation.

9 Under **Step 1**, select the first member of the intersection for the assignment rule.

10 Click **Add** to move the selected member to **Selections**.

11 Click **Next**.

12 **Optional**: Filter the list for selected non-Level-0 dimension members.

   When entering a value in a filter for UDA or Attribute parameters, enter the entire string. Wildcard symbols, such as asterisks (*) and question marks (?) are supported in assignment rule Name filters. For example, enter "B*" to filter members having names or aliases beginning with the letter "B". You cannot use "*B" as this means that the filter is beginning with a wildcard, which is not allowed.

   See “Using Filters” on page 38.

   **Note**: For Assignment Rules, the Filter with Name criterion is applied to both the member Name and Alias, regardless of which mode was selected during filter creation (Show Alias or Show Name).

13 Under **Step 2**, select the second member of the intersection for the Destination of the assignment.

14 Click **Add** to move the selected member to **Selections**.

   When all members have been selected, the Destination Selection Summary is displayed.

15 Click **Next**.

   When all members have been selected, the Assignment Rule Summary is displayed.
Verify that the selections are correct.

In Rule Name, enter a name for the assignment rule. The rule name can contain a maximum of 80 characters.

Optional: Enter a Search Tag to facilitate later searches for the rule.

Optional: Enter a description of the assignment rule.

Click Finish.

The Rule Name is added to the list of Available Rules on the Assignment Rules Management dialog box.

Creating Assignment Rules from Existing Assignment Rules

You can edit an existing assignment rule, and use the Save As option to save it as a new assignment rule, as follows:

- Edit an existing rule, and save as a new rule.
- Edit an existing rule, modify its contents, and rename the rule.

To save an existing assignment rule as a new rule:

1. From Task Areas, select Manage Allocations, and then Assignments.
2. Select the source stage and intersection.
3. Select the assignment rule that is to be copied or modified, and then click Edit.
4. Optional: Modify the selections for the assignment rule.
5. Under Rule Name, enter the name of the new rule.
6. Optional: Enter a Search Tag to facilitate later searches for the rule.
7. Optional: Enter a description of the assignment rule.
8. Click Save As to save the rule under the new name.
Click Finish. The new rule is displayed under Available Rules.

**Creating Same As Source Assignment Rules**

When defining a Same as Source assignment rule, you create an assignment rule that enables you to use a wild card for member selection in one, some or all of the destination stage dimensions. When the rule is selected using “rule selection,” the dimensions marked for Same As Source would use the same member on both the destination and source stage dimensions.

**Note:** The Level-0 members that are used in the Same As Source member selection within the rule must be present as Level-0 members in both the source and destination stage dimensions.

The rule that contains the Same as Source setting acts as a wildcard to pull in individual members of the selected dimension as the new destination each time you select the rule.

When the calculation script is generated, the script inserts the selected source into the rule, to create the appropriate allocation.

**Example: Same As Source Assignment Rule**

In a model, there are two dimensions required for the allocation:

- Products (Cola and Lime)
- Regions (US and Can)

An assignment rule, for example, 'Rule 1,' is created to use the dimension 'Products’ as the source for any allocation. Use the following procedures to create and apply the Same as Source assignment rules.

- To run the first allocation, select the associated member “Cola,” then select the Destination “US,” and then select Rule 1. When the calculation script is generated, it inserts the selected source: Product (Cola) X US.
- To run the second allocation, select the associated source member “Lime,” then select the Destination “US,” and then select Rule 1. This time, when the calculation script is generated, it inserts the selected source: Product (Lime) X US.

To create Same as Source assignment rules:

1. **In an open model, from Task Areas, select Manage Allocations, then Assignments.**

   The Assignments screen is displayed.

2. **Select the POV and Layer for the selected model, then click Go.**

3. **Under Stage, select the stage for the assignment.**

   The dimensions and members for the stage are displayed.
4 Under Source, select the members of each dimension that create the intersection for the source of the assignment rule.

The associated driver is identified in the Driver column. The Destination column is populated with the following information:

- With dimensions and members of the destination stages, if there are assignments for this intersection
- With the names of destination stages and assignment rules, if there are any applied to this intersection.

5 Under Destinations, click Rules Management.

The Assignment Rules Management dialog box is displayed.
6 In the **Available Rules** column, click **Add**.

The Add Rule dialog box is displayed.

7 **Under Stage**, select the destination stage for which the rule was created.

8 **Under Step 1**, select **Same As Source** to create an assignment rule to use a single source for one or more destination intersections.

When the calculation script is generated, the script inserts the selected source into the rule, to create the appropriate allocation.

**Note:** After you select “Same as Source,” member selection for that dimension and the Filter Icon are disabled because the members are essentially “pre-selected” in the defined source. No further member selection is necessary or allowed for that dimension.

9 **Under Selections**, from the **Use same member as source dimension** drop-down list, select the dimension that is to be the default source dimension for each allocation.

10 **Click Next**.

11 **Under Step 2**, repeat **step 8** and **step 9** to select each member of the intersection for the Destination of the assignment.

12 **Click Next**.

The Assignment Rule Summary is displayed.
13 Review the selections.

14 In **Rule Name**, enter a name for the Same as Source assignment rule. The assignment rule name can contain a maximum of 80 characters.

15 Click **Finish**.

The Rule Name is added to the list of Available Rules on the Assignment Rules Management dialog box.

**Modifying Assignment Rules**

You can modify the destination stage, selected dimension members, filter set, and rule name, rule description, and search tag in an existing assignment rule.

To modify assignment rules:

1. In an open model, from **Task Areas**, select **Manage Allocations**, then **Assignments**.

   The Assignments screen is displayed.

2. Select the POV and the layer for the selected model, then click **Go**.

3. Under **Stage**, select the stage for the assignment rule to be modified.

   The dimensions and members for the stage are displayed.

4. Under **Source**, select the members that create the intersection for the source of the assignment rule.

   The associated driver is displayed in the appropriate Driver column. The icons in the Destination column are activated.

5. Under **Destinations**, click **Open Assignment Rules Management**.

   The Assignment Rules Management dialog box is displayed.

6. Select the Rule to be modified, and then click **Modify**.

   The Edit Rule dialog box is displayed.
Under Selection for each Step on the Edit Rule dialog box, modify the dimension members selected for the rule intersection, as required, using the arrow keys to add or remove members, and then click Next.

When modifications for all dimensions are complete, the Edit Rule summary is displayed.

On the Edit Rule Summary, review the selections.

Optional: In Rule Name, enter a different name for the assignment rule. The rule name can contain up to a maximum of 80 characters.

Select the appropriate option to save the rule:
- Click Save to save the modified rule under the original rule name.
- Click Save As to create a new rule with a different rule name.

Click Finish.

The modified rule is displayed in the list of Available Rules list on the Assignment Rules Management dialog box.

Deleting Assignment Rules

To delete assignment rules:
1. Ensure that no other users require the assignment rule that is to be deleted.
2. In an open model, from Task Areas, select Manage Allocations, then Assignments.
   The Assignments screen is displayed.
3. Select the POV and layer for the selected model, then click Go.
4. Under Stage, select the stage for the assignment rule to be deleted.
   The dimensions and members for the stage are displayed.
5. Under Source, select the members that create the intersection for the source of the assignment rule.
   The associated driver is displayed in the appropriate Driver column. The icons in the Destination column are activated.
   The Assignment Rules Management dialog box is displayed.
7. Under Available Rules, select the Rule to be deleted, and then click Delete.
   A message asks you to confirm the deletion.

Caution! Deletion of an assignment rule impacts the calculation of model data because the rule and its rule selections are deleted.

Click Yes.
The rule is removed from the Available Rules list.

9 Click **OK**.

**Applying an Existing Assignment Rule**

- To apply assignment rules:
  1. In an open model, from **Task Areas**, select **Manage Allocations**, then **Assignments**.
     The Assignments screen is displayed.
  2. Select the POV and layer for the selected model, then click **Go**.
  3. Under **Stage**, select the stage to which the assignment rule is to be applied.
     The dimensions and members for the stage are displayed.
  4. Under **Source**, select the members that create the intersection for the source to which you want to apply
     the assignment rule.
     The associated driver is displayed in the appropriate Driver column. The icons in the
     Destination column are activated.
  5. Under **Destinations**, click **Rules Management**.
     The Assignment Rules Management dialog box is displayed.
  6. Under **Available Rules**, select the assignment rule to be applied to this intersection.
  7. Click **Add** to move the selected assignment rule to **Applied Rules**, and then click **OK**.
     The assignment rule is applied to the selected assignment.

**Applying an Existing Same as Source Assignment Rule**

- To apply Same as Source assignment rules:
  1. In an open model, from **Task Areas**, select **Manage Allocations**, then **Assignments**.
     The Assignments screen is displayed.
  2. Select the POV and layer for the selected model, then click **Go**.
  3. Under **Stage**, select the stage to which the assignment rule is to be applied.
     The dimensions and members for the stage are displayed.
  4. Under **Source**, select the members of each dimension that create the intersection for the source to
     which you want to apply the assignment rule.
  5. Under **Destinations**, click **Assignment Rules Management**.
     The Assignment Rules Management dialog box is displayed.
6 Under Available Rules, select the assignment rule with the Same as Source option to be applied to this intersection, and then click OK.

7 Click Add to move the selected assignment rule to Applied Rules, and then click OK. The assignment rule is applied to the selected intersection.

When the calculation script is generated, the selected Source and Dimension members are inserted to generate the correct results for the allocation.

**Removing an Existing Assignment Rule Selection**

To remove assignment rule selections:

1 In an open model, from Task Areas, select Manage Allocations, then Assignments.

   The Assignments screen is displayed.

2 Select the POV and layer for the selected model, then click Go.

3 Under Stage, select the stage that contains the assignment rule to be removed.

   The dimensions and members for the stage are displayed.

4 Under Source, select the members that create the intersection for the source of the assignment rule which you want to remove.

   The associated driver is displayed in the appropriate Driver column. The icons in the Destination column are activated.

5 Under Destinations, click Assignment Rules Management.

   The Assignment Rules Management dialog box is displayed.

6 Under Applied Rules, select the assignment rule to be removed from this assignment.

7 Click Remove to move the selected assignment rule to Available Rules, and then click OK.

   The assignment rule is removed from the selected assignment.

**Using the Assignment Rule Definition Screen**

The Assignment Rule Definition screen, available from the Task Areas pane, enables you to create and manage assignment rules, and easily view the complete list of assignment rules in a single location; however, this option does not allow you to apply the rule to a source.

The Assignment Rule Definition screen displays the Name and Description of any assignment rules, and the Destination stage. The associated Search Tag is listed, and the ID of the user who created or modified the assignment rule. All assignment rules are available, regardless of whether they have been created in the Assignment Rule wizard or the Assignment Rule Definition screen.

Use the following procedures:

- “Creating Assignment Rule Definitions” on page 116
Creating Assignment Rule Definitions

To create assignment rule definitions:

1. In an open model, from Task Areas, select Manage Allocations, then Assignment Rule Definitions.

The Assignment Rule Definitions screen is displayed. The screen displays the Name and Description of any assignment rules, and the Destination stage. The associated Search Tag is listed, and the ID of the user who created or modified the assignment rule.

2. Click Add

The Assignment Rules wizard is displayed.
3 For Step 1, under **Browser**, select the first member of the intersection for the assignment rule.

4 Click **Add** to move the selected member to **Selections**, and then click **Next**.

5 Under Step 2, under **Browser**, select the second member of the intersection for the Destination of the assignment.

6 Click **Add** to move the selected member to **Selections**, and then click **Next**. Repeat this step for additional dimensions, if required.

    When all members have been selected for the intersection, the Destination Selection Summary is displayed.

7 **Optional:** Filter the list for selected non-level 0 dimension members.

    When entering a value in a filter for UDA or Attribute parameters, enter the entire string. Wildcard symbols, such as asterisks (*) and question marks (?) are supported in assignment rule Name filters. For example, enter "B*" to filter members having names or aliases beginning with the letter "B". You cannot use "*B" as this means that the filter is beginning with a wildcard, which is not allowed.

    See “Using Filters” on page 38.
Note: For Assignment Rules, the Filter with Name criterion is applied to both the member Name and Alias, regardless of which mode was selected during filter creation (Show Alias or Show Name).

8 Enter the following information for the new rule:

- **Rule Name**—The rule name can contain a maximum of 80 characters.
- **Search Tag**—The search tag may contain a maximum of 80 characters.
- **Rule Description**

9 **Click Finish.**

The Rule Name is added to the list of Available Rules on the Assignment Rules Management dialog box.

10 **Verify that the selections are correct.**

11 In **Rule Name**, enter a name for the assignment rule The rule name can contain a maximum of 80 characters.

12 **Click Finish.**

The Rule Name is added to the list of Available Rules on the Assignment Rules Management dialog box.

### Creating Same As Source Assignment Rule Definitions

When defining a Same as Source assignment rule, you create an assignment rule that enables you to use a wild card for member selection in one, some or all of the destination stage dimensions. When the rule is selected using “rule selection,” the dimensions marked for Same As Source would use the same member on both the destination and source stage dimensions.

Note: The Level-0 members that are used in the Same As Source member selection within the rule must be present as Level-0 members in both the source and destination stage dimensions.

The rule that contains the Same as Source setting acts as a wildcard to pull in individual members of the selected dimension as the new destination each time you select the rule.

When the calculation script is generated, the script inserts the selected source into the rule, to create the appropriate allocation.

To create Same As Source assignment rule definitions:

1 **In an open model, from Task Areas, select Manage Allocations, then Assignment Rule Definitions.**

The Assignment Rule Definitions screen is displayed.

2 **Click Add**

The Assignment Rules wizard is displayed.
3 Under Browser, select the first member for the intersection.

4 Above Browser, click Same As Source.

   The Selections column of the screen is modified to display the Same as Source drop-down list.

5 Under Selections, select the dimension to be used as the source for the for the assignment rule, and then click Next.
6 Click Finish.

The Rule Name is added to the list of Available Rules on the Assignment Rules Management dialog box.

7 Click Add to move the selected member to Selections, and then click Next.

8 Under Step 2, under Browser, select the second member of the intersection for the Destination of the assignment.

9 Click Add to move the selected member to Selections, and then click Next. Repeat this step for additional dimensions, if required.

When all members have been selected for the intersection, the Destination Selection Summary is displayed.

10 Enter the following information for the new rule:
   - Rule Name. The rule name can contain a maximum of 80 characters.
   - Search Tag. The search tag may contain a maximum of 80 characters.
   - Rule Description

11 Click Finish.

The Rule Name is added to the list of Available Rules on the Assignment Rules Management dialog box.

**Modifying Assignment Rule Definitions**

You can modify any assignment rule definition.

The modified assignment rule definition can be saved as the original, or you can rename it to create a new assignment rule definition.

➢ To modify assignment rule definitions:

1 In an open model, from Task Areas, select Manage Allocations, then Assignment Rule Definitions.

   The Assignment Rule Definitions screen is displayed.
2 Select the assignment rule to be modified.

3 **Click Edit Selected Assignment Rule**.

The Assignment Rules wizard is displayed.

4 **Optional:** For Step 1, under **Browser**, use the Add arrow or the Remove arrow to move the appropriate members under the **Selection** column, and then click **Next**.

5 **Optional:** Under Step 2, under **Browser**, use the Add arrow or the Remove arrow to move the appropriate members under the **Selection** column, and then click **Next**.

Repeat this step for additional dimensions, if required. When all members have been selected for the intersection, the Destination Selection Summary is displayed.

6 Review the modifications to the assignment rule.

7 **Optional:** To save the modifications to the existing assignment rule under the same rule name, click **Save**, enter a Search Tag and Rule Description for the existing Rule Name, and then click **Finish**.

The modified Assignment Rule is saved.

8 **Optional:** To save the assignment rule as a new assignment rule, click **Save As**, enter a new Rule Name, Search Tag and Rule Description, and then click **Finish**.

The new assignment rule is saved with the selected dimensions under the new rule name.

---

### Deleting Assignment Rule Definitions

To delete assignment rules:

1 **In an open model, from Task Areas, select Manage Allocations, then Assignment Rule Definitions.**

The Assignment Rule Definitions screen is displayed.

2 **Select the assignment rule to be deleted.**

3 **Click Delete Assignment Rule**.

A Delete Confirmation message is displayed.
4 Click Yes.
The selected assignment rule definition is removed from the Assignment Rule Definitions list.

Using the Data Entry Window

You can use the Profitability and Cost Management Data Entry window to directly add, edit, and verify data.

Standard data entry views that provide several predefined views are available upon deployment of the application. You can also create customized Edit Views that contain a set of measures (members of the Measures dimension), so you can easily view that set of data. This option is useful if you have sets of data that must be updated frequently.

You can create different types of data entry views:

- Standard Data Entry views are available after deployment of the application and provide predefined views. See “Standard Data Entry Views” on page 122.
- User-defined custom Data Entry view definitions are stored in the Profitability and Cost Management schema. The views are defined per application and are shared between all users. This functionality applies to named views only.
- Ad-hoc views are stored in user preferences and are not shared between users. These views are created when the user selects measures, and then click Apply instead of Save.

See these sections to manually manage data:

- “Standard Data Entry Views” on page 122
- “Creating Custom Edit Views” on page 124
- “Editing Stage Data” on page 126
- “Editing Data Manually” on page 126
- “Editing Driver Data” on page 127
- “Deleting Edit Views” on page 127

Standard Data Entry Views

After deployment of the application from Performance Management Architect to Profitability and Cost Management, standard data entry views are created. These views can be used to quickly and easily evaluate data detail for cost balancing, driver and cost statistics, and intrastage assignment details.

Standard data entry views display a selection of associated measures on the Data Entry screen. If required, the standard data entry views can be modified, as required, to customize the results for the organization.

When you select a standard data entry view from Available Views on the Data Entry screen, the screen changes to reflect the associated measures for that view, as shown on the following table:
Table 10  Standard Data Entry Views

<table>
<thead>
<tr>
<th>Data Entry View</th>
<th>Associated Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost Balancing</td>
<td>• UnassignedCost</td>
</tr>
<tr>
<td></td>
<td>• CostInput</td>
</tr>
<tr>
<td></td>
<td>• CostReceived</td>
</tr>
<tr>
<td></td>
<td>• NetCostForAssignment</td>
</tr>
<tr>
<td></td>
<td>• Cost Assigned</td>
</tr>
<tr>
<td></td>
<td>• IdleCost</td>
</tr>
<tr>
<td></td>
<td>• OverDrivenCost</td>
</tr>
<tr>
<td>Driver Statistics</td>
<td>• CostPerDriverUnit</td>
</tr>
<tr>
<td></td>
<td>• TotalDriverValue</td>
</tr>
<tr>
<td></td>
<td>• OverRigeTotalDriverValue</td>
</tr>
<tr>
<td></td>
<td>• IdleDriverValue</td>
</tr>
<tr>
<td>Cost Statistics</td>
<td>• NetCostForAssignment</td>
</tr>
<tr>
<td></td>
<td>• UnitCost</td>
</tr>
<tr>
<td></td>
<td>• Quantity</td>
</tr>
<tr>
<td>Intrastage Costs</td>
<td>• CostInput</td>
</tr>
<tr>
<td></td>
<td>• CostReceivedPriorStage</td>
</tr>
<tr>
<td></td>
<td>• CostReceivedIntraStage</td>
</tr>
<tr>
<td></td>
<td>• NetReciprocalCost</td>
</tr>
<tr>
<td></td>
<td>• NetCostForAssignment</td>
</tr>
<tr>
<td></td>
<td>• CostAssignedIntraStage</td>
</tr>
<tr>
<td></td>
<td>• NetCostAfterIntraStage</td>
</tr>
</tbody>
</table>

This view is available even if the model does not have stages that support intrastage assignments.

To view standard data entry views:

1. In an open model, from Task Areas, select Manage Allocations, and then Data Entry.
2. From the Data Entry screen, select the required POV, and then click Go
3. On the Stage Data tab, under Stage, select the source stage.

The associated measures for the selected data entry view are displayed on the Data Entry screen.
Optional: Customize the selected standard data entry view for the organization by adding or removing associated measures. See “Creating Custom Edit Views” on page 124

Creating Custom Edit Views

Edit views are used to simplify the editing of data that changes frequently, for playing scenarios or to capture last minute information. The saved views can be selected from the Available Views list.

➢ To create edit views:

1 In an open model, from Task Areas, select Manage Allocations, then Data Entry.

The Data Entry screen is displayed.
2 Select the POV for the data to be modified, then click Go.

3 Under Stage, select the source stage.

4 On the Stage Data tab, click Manage Views.

The Manage Views dialog box is displayed.

5 Click Add.
In the Create View dialog box, enter a name for the new view, and then click OK.

Under Measures, select one or more measures that are to be included in this view, and then click Add to move the measures to the Selection list.

Perform one of the following actions:

- To temporarily save the edit view for a one-time use, click Apply.
- To save the edit view for multiple uses, click OK.

The name of the new Edit View is added to the Available Views list.

Editing Data Manually

In some instances, you may need to modify data to correct an entry, or change a value. Use the Data Entry window to access and modify data manually.

To modify data manually:

1. In an open model, from Task Areas, select Manage Allocations, and then Data Entry. The Data Entry screen is displayed.

2. Select the tab that contains the cell to be modified:
   - Stage Data
   - Driver Data

3. Edit data as described in “Editing Stage Data” on page 126.

Editing Stage Data

From the Data Entry Stage Data screen, you can manually add new data, or edit imported data.

To edit data:

1. In an open model, from Task Areas, select Manage Allocations, then Data Entry. The Data Entry screen is displayed.

2. Select the POV and Layer for the data to be modified, and then click Go.

3. On the Stage Data tab, under Source, select a stage.

4. Optional: From the Available Views list, select a saved view. All measures for the selected view are listed; however, parent measures cannot be modified.

5. On the Stage Data tab, select the members that create the intersection value which is to be modified.

6. Double-click the intersection cell, and edit the data.

7. Click Save to save the change.
Editing Driver Data

The Driver Data tab displays the dimensions of the source and destination stages. For a selected source member intersection, the tab displays the assigned destination members and driver measures.

If a driver measure includes the Assignment location in the driver formula definition, data for the driver is stored at the intersection formed by the source and destination members. Because the intersection includes dimensions from multiple stages, you cannot view the intersection from the Stage Data tab.

To edit driver data:

1. In an open model, from Task Areas, select Manage Allocations, then Data Entry.
2. Select a POV, and then click Go.

   The Data Entry screen is displayed.
3. Select the Driver Data tab, and then select a layer.
4. Under Source, select the model stage and the dimension members for the source intersection that is to be modified.

   All driver measures for the selected assignments are listed: source driver measures on the Source pane, and Destination and Assignment driver measures on the Destination pane.
5. Optional: To select the destination intersections to be viewed, under Destination, click Member Selector and select one of the following options:
   - Show Empty
   - Show All
   - Show Regular Assignments
   - Show Assignment Rules
6. Double-click a driver measure field, and enter the new value in the cell.
7. Click Save to save the changes.

Deleting Edit Views

You can delete an edit view.

To delete edit views:

1. Ensure the edit view is not required by other users.
2. In an open model, from Task Areas, select Manage Allocations, then Data Entry.
3. Select a POV, and then click Go.

   The Data Entry screen is displayed.
4 On the **Stage Data** tab, click **Manage Views**. The Manage Views dialog box is displayed.

5 From the **View Name** drop-down, select the edit view to be deleted, and click **Delete**. A confirmation message is displayed.

6 Click **Yes**. The Edit View is deleted, and is no longer available from the Available Views list.

**Tracing Allocations**

Using the Trace Allocations feature, you can visually follow the flow of funds through the model from beginning to end.

From any selected member intersection, you can move through the entire financial model:

- Backward to view the source members that contributed to the value for the intersection, and the amount that each member contributed.
- Forward to view the destination members to which the value for the intersection is allocated, and how much is allocated to each member.

All related assignments are displayed. You can customize the information that you choose to display. You can also export the trace allocation images to another location, to be viewed or printed as required.

By default, calculations are performed using the Reporting database because the data is automatically aggregated.

Refer to these sections for instructions on tracing allocations:

- “Tracing Allocation Detail” on page 128
- “Tracing Allocation Flow” on page 132
- “Reciprocal Allocation” on page 136
- “Exporting Trace Allocation Images ” on page 137

**Tracing Allocation Detail**

Allocation Detail enables you to follow allocations, step-by-step, directly from a source intersection to its ultimate destination, or from a destination intersection to its source. The intersections that contribute to, or receive value from, the starting point show the stage and associated members.
Direct allocation data is used to calculate the percentage for each step along the flow using the following formulas:

- For drilling forward:
  \[
  \% = \frac{\text{ASSG CostReceivedPrior(orIntra)Stage}}{\text{SRC NetCostForAssignment}}
  \]

- For drilling backwards:
  \[
  \% = \frac{\text{ASSG CostReceivedPrior(orIntra)Stage}}{\text{DEST NetCostForAssignment}}
  \]

For each stage, the percentage of each allocation contributing to the next intersection is displayed, from highest to lowest. The percentages displayed for a stage will not equal 100% if the following conditions exist:

- If there are idle costs on an intersection.
- If there is cost input at a destination when drilling upstream (back to the source).

To trace allocation detail:

1. Ensure all allocation scripts have been run.
   See “Calculating Direct Allocation Data” on page 157.

2. In an open model, from Task Areas, select Manage Allocations, then Trace Allocations.
   The Traceability screen is displayed.

3. Select a POV, and then click Go.

4. Select a Layer.

5. Under Starting Point, select Prefs to choose the preferences for the information to be traced:
   - Select the type of trace to be performed:
     - Allocation Detail to follow allocations, step-by-step, directly from a source intersection to its ultimate destination
     - Allocation Flow to display the source and destination intersections that have an indirect relationship, rather than a direct assignment, to the selected intersection.
   - Select a display mode for the map:
     - Display Alias
     - Display Name
Note: If Display Alias is selected, and no alias is set, the Display Name is shown in square brackets ([ ]).

6. For each dimension, click Selector, and select the member to specify the intersection from which you want to begin tracing.

Note: You must select the lowest level member in order to display the allocation.

7. Select Allocation Detail.

8. Click Trace to begin mapping the financial flow.

The selected intersection is displayed on the screen, showing the name of the stage, and the members selected for each dimension in the intersection. The Properties for the starting point of the selected intersection are displayed at the bottom of the screen.

Note: You can drag the entire flow diagram to position it for a more effective view. Depending on the number of dimensions in the model stage, you may need to stretch or scroll the window to see the Trace button on the far right side of the task bar.

9. Optional: On the intersection header, select the Trace Allocation Context Menu, and then select the maximum number of nodes that you want to display when the selected intersection is expanded (3, 5, 10 or 20). You can repeat this selection on any intersection.

10. Click the intersection to highlight the source node.

Note: Expand node is only displayed on the intersection after it has been selected.

11. Under Properties, review the Source Detail that pertains to the selected intersection.

The following information is provided about the source:

- Source lists all dimension members selected for the starting point.
- Net Cost For Assignment
- Idle Cost, if any.
- Cost Assigned
- Total Driver Value
- OverDriven, if any
- StandardCostRate, if any

12. Select the next intersection to view, and click expand to view the incoming or outgoing allocations for the selected intersection. You can navigate either upstream or downstream by expanding the nodes on either side of the intersection.
The intersections that contribute to, or receive value from, the starting point show the stage and associated members. The percentage for each allocation is displayed, from highest to lowest.

The percentages displayed for a stage will not equal 100% if the following conditions exist:

- If there are idle costs on an intersection.
- If there is cost input at a destination when drilling upstream (back to the source).

13 Double-click the stage header to expand and view the intersections that are included in the allocation. The source and destination intersections are highlighted.

14 Click any intersection to view its details in the Properties pane at the bottom of the screen.

The following details are displayed:

- **Under Source Detail:**
  - Source displays the dimension members included in the intersection from which the value has been contributed
  - Net Cost For Assignment
  - Idle Cost, if any
  - Cost Assigned
  - Total Driver Value
  - OverDriven, if any
  - Standard Rate, if any

- **Under Allocation Detail:**
  - Amount of the allocation
- Driver Name
- Driver Value

- Under **Destination Detail:**
  - Destination displays the dimension members included in the intersection to which the value is allocated
  - Cost Received
  - Cost Input
  - Net Cost For Assignment

15 Follow the flow throughout the model, as required:
- Use **expand** to follow the direct allocations throughout the model
- Use **collapse** to close the list of intersections.

### Tracing Allocation Flow

The Allocation flow displays the source and destination intersections that have an indirect relationship, rather than a direct assignment, to the selected intersection. For example, you may have values from Stage 1 allocated to Stage 3, without any intermediate steps. By following the flow of each allocation, you can examine the contributions from the source at each step, to understand the impact of an allocation on its ultimate source or destination.

Direct allocation data is used to calculate the percentage for each step along the flow using the following formulas:
- For drilling forward:
  \[ \% = \frac{\text{ASSG CostReceivedPrior(orIntra)Stage}}{\text{SRC NetCostForAssignment}} \times \text{SRC} \% \]
- For drilling backward:
$\% = \left( \frac{\text{ASSG CostReceivedPrior(orIntra)Stage}}{\text{DEST NetCostForAssignment}} \right) \times \text{DEST} \%$

For each stage, the percentage of each allocation contributing to the next intersection is displayed, from highest to lowest. The percentages displayed for a stage will not equal 100% if there are idle costs on an intersection.

To trace allocation flow:

1. Ensure all allocation scripts have been run. See “Calculating Direct Allocation Data” on page 157.
2. In an open model, from Task Areas, select Manage Allocations, then Trace Allocations.

   The Traceability screen is displayed.

3. Select the POV and Layer, then click Go.

4. Under Starting Point, select Prefs to choose the preferences for the information to be traced:
   - Select Allocation Flow to display the source and destination intersections that have an indirect relationship, rather than a direct assignment, to the selected intersection.
   - Select a display mode for the map:
     - Display Alias
     - Display Name

   Note: If Display Alias is selected, and no alias has been set, the Display Name is shown in square brackets.

5. Under Starting Point, select the Stage to be viewed.

6. For each dimension, click Selector to choose the member for the intersection at which you want to begin tracing. You must select the lowest level member in order to display the allocation.
7. Click Trace to begin mapping the financial flow.

Note: Depending on the number of dimensions in the model stage, you may need to stretch the window to see the Trace button on the far right side of the task bar.

The selected intersection is displayed on the screen, showing the name of the stage, and the members selected for each dimension in the intersection. The Properties for the starting point are displayed at the bottom of the screen.

8. Optional: On the intersection header, select the Trace Allocation Context Menu and then select the maximum number of nodes you want to display when the selected intersection is expanded (3, 5, 10 or 20). You can repeat this selection on any intersection.

9. Click the intersection to highlight the source node.

Note: Expand is only displayed on the intersection after it has been selected.

10. Under Properties, review the Source Detail that pertains to the selected intersection,
   - Source lists all dimension members selected for the starting point.
Net Cost For Assignment
Idle Cost, if any.
Cost Assigned to the starting point.
Total Driver Value
OverDriven, if any
Standard Rate, if any

Highlight the next intersection, and click expand to view the incoming or outgoing allocations for the selected intersection. You can navigate either upstream or downstream by expanding the nodes on either side of the intersection.

The intersections that contribute to, or receive value from, the starting point show the stage and associated members. The percentage for each allocation is displayed, from highest to lowest. If there are idle costs on an intersection, the total percentage for the stage will not equal 100%.

Note: You can drag the entire flow diagram to position it for a more effective view. Depending on the number of dimensions in the model stage, you may have to stretch or scroll the window to see the Trace button on the far right side of the task bar.

Double-click the stage header to expand and view the intersections that are included in the allocation. The source and destination intersections are highlighted.

Double-click any intersection to view its associated details in the Properties pane.

The following details are displayed:

Under Source Detail:
- Source displays the dimension members included in the intersection from which the value has been contributed
- Net Cost For Assignment
- Idle Cost, if any
- Cost Assigned
- Total Driver Value
- OverDriven, if any
- Standard Rate, if any

Under Allocation Detail:
- Amount of the allocation
- Driver Name
- Driver Value

Under Destination Detail:
- Destination displays the dimension members included in the intersection to which the value is allocated
Reciprocal Allocation

The net reciprocal cost for reciprocal allocations is calculated and reported on the Trace Allocations screen. Net Reciprocal Cost is calculated as the difference between ReciprocalCostReceived and ReciprocalCostAssigned. The calculated percentage of the selected intersection is also displayed.

To locate reciprocal allocations in the model, you can view the intersections and values for the reciprocal allocations in Essbase under the following Cost Layer Allocation Measures:

- ReciprocalCostAssigned
- ReciprocalCostReceived

The calculated amounts and percentage values may be displayed as negative values, which represent the amount or calculated percentage of the intersection that is being allocated back to the other portion of the reciprocal allocation.

By default, reciprocal allocations on the Trace Allocations screen are listed at the end of each list of intersections.

Example: Reciprocal Allocations

In the following allocation flow diagram, the intersection of Information Technology, Desktop Maintenance maintains a reciprocal allocation with Human Resources, Compensation and Benefits Admin.
The net reciprocal cost for each intersection is calculated as follows:

- **Information Technology, Desktop Maintenance** — Net reciprocal cost of 216.24, which represents 4.74% of Human Resources, Compensation & Benefits Admin.

- **Human Resources, Compensation and Benefits Admin** — Net reciprocal cost of -216.24, which is -0.20% of Information Technology, Desktop Maintenance.

The negative (-) value in Human Resources, Compensation and Benefits Admin represents the amount that is being allocated back to Information Technology, Desktop Maintenance.

### Exporting Trace Allocation Images

After generating the trace allocation diagrams, you can export the image to another location for printing or viewing.

1. To export trace allocation images:
   - Generate the traceability diagram, as outlined in these sections:
     - “Tracing Allocation Detail” on page 128
     - “Tracing Allocation Flow” on page 132
     - “Reciprocal Allocation” on page 136
   - From the EPM Workspace main menu, select **Allocations**, and then **Export Traceability** (Ctrl+Shift+E).
     A new browser opens, displaying the traceability diagram. The diagram is exported as a .png image.
   - Right-click the image, and select **Save Picture As**.
Save the traceability diagram as a `.png` image to a new location from which the diagram can be viewed or printed.

**Caution!** Do not change the graphic format file extension from `.png`, or the graphic may be corrupted.
About Validation

A model must be validated several times during its lifecycle:

- After the model is built, perform Model Validation to ensure the model structure conforms to modeling rules.
- After data is added, generate Driver Data Reports for selected drivers to ensure that all data required for calculations is present.
- After calculating the model, generate a Stage Balancing Report to balance all in and out entries for the model stage.

The tabs available on the Structure Validation screen are read-only, and highlight any drivers that have not been used, or assignments that are missing an associated inbound or outbound assignment. You can also view a list of intrastage and reciprocal assignments for any stage within the model. Errors encountered during the model structural validation cycle must be corrected before you can continue to build or calculate the model.

See these sections to perform the appropriate validation on the model:

- “Model Structure Validation Rules” on page 140
- “Unassigned Values” on page 140
- “Idle Capability” on page 142
- “Validating Model Structure” on page 143
- “Generating the Stage Balancing Report” on page 146
- “Generating the Driver Data Report” on page 148
Model Structure Validation Rules

The model is verified against a set of model validation rules to ensure the structure is sound before adding data. The structure validation checks to ensure these conditions are met:

- Each assignment of destinations to a source member has a driver
- Inbound assignments are associated with an outbound assignment
- No drivers are unused.
- Reciprocal assignments work correctly.
- Intrastage assignments work correctly.
- Assignment rules are correct.

Any structural error must be resolved before you can calculate the model. Correct any structural errors, and submit the stage for validation again. You may need to correct errors and revalidate several times. The only exception is the “No drivers are unused” warning, which can exist while still enabling the calculations to be successfully performed with unused drivers in the model.

**Tip:** Sometimes correcting one error may cause another problem, so it is useful to revalidate the model stage after each correction.

Unassigned Values

Costs and revenue within a model should be assigned to a specific activity or account; however, some costs or revenue may remain unassigned at any stage of the model. These values are reported as unassigned cost or revenue.

There are two types of unassigned values:

- Costs or revenue that are allocated to a node, and do not continue to flow forward. See “Example 1 — Flow Stops” on page 141.
- Costs or revenue allocated from a node that have some residual value at the node. See “Example 2 — Residual Value” on page 141.

Depending on how a model is created, these unassigned values may be expected and acceptable, or they may represent an error in allocation that needs to be corrected.

**Tip:** If certain costs or revenue are logically stopped before the end of the model flow, Oracle recommends that you create a specific area of the dimension hierarchy to accept the unassigned values. When the model is validated, this modeling method helps distinguish between expected unassigned values and allocation errors require correction.

During validation, unassigned costs and revenue are flagged. All aggregated unassigned values for a stage and intersection are reported in the UnassignedCost or UnassignedRevenue...
members in the Measures dimension. Review unassigned values to determine whether they need to be allocated.

**Example 1 — Flow Stops**

In the example below, the value from stage A ($100) is allocated to B1, B2, and B3.

In the example below, the value from stage A ($100) is allocated to B1, B2, and B3.

The values from B1 and B2 are allocated to C1 and C2 respectively; however, B3 has no further assignments. In this example, the $50 from B3 will be reported under UnassignedCost or UnassignedRevenue in the Measures dimension.

**Example 2 — Residual Value**

In the following example, which uses a percentage driver, the allocation of values to subsequent assignments leaves a residual value at the original intersection.

Stage A contains $100. Based on the percentage drivers, allocations to intersections in Stage B account for 80% of the value of the original amount. These assignments mean that 20%, or $20, of the original amount remains unallocated. The $20 is treated as IdleCost.
Idle Capability

The term, full capacity, indicates that all model resources are being fully used to perform a task or assignment. The term, idle capability or idle capacity, indicates that some model resources are not being fully utilized. To maximize the use of resources, or to monitor inefficiencies, such as machine downtime, you may want to track idle capability.

You set the ability to calculate and report idle capability when you create or modify a driver, by selecting the Allow Idle option, and then entering a total driver quantity as part of the driver data.

The Idle cost or revenue on each node is reported in the IdleCost or IdleRevenue members in the Measures dimension.

These driver measures are related to idle capability for actual basis drivers only:

- **IdleDriverValue** - Measure that is used as the driver value (DV) for calculating IdleCost.
- **TotalDriverValue** - Idle costs are based on a total driver quantity calculated, based on driver data entered by the user.
- **EffectiveTotalDriverValue** - Measure that is used to store the Effective Driver Total for those drivers for which the “Allow Idle” box has been selected on the source.

Idle capability is reported during structural validation of a model. If an unallocated remainder is detected, and the driver has not been set to allow idle capability, an error is generated.

Standard basis drivers are enabled to calculate idle capacity by default. If the total cost or revenue assigned is less than the NetCostForAssignment, then the remainder is stored as idle cost or revenue.

**Example of Idle Cost for Standard Basis Drivers**

Source X – 100 NetCostForAssignment assigned to 3 destinations (A,B,C)

- Destination A – 30 CostReceived
- Destination B – 30 CostReceived
- Destination C – 30 CostReceived

Source X – NetCostForAssignment = 100

Total amount driven from X to all destinations (CostAssigned) = 90

IdleCost = 10

UnassignedCost = 0

You can view Idle Cost on the Stage Balancing Report. See “Generating the Stage Balancing Report” on page 146.
OverDriven Costs and Revenue

Profitability and Cost Management drives cost or revenue from a source to a destination, using a combination of assignments, which govern where to drive the cost, and drivers, which determine the amount to drive.

With Actual basis drivers, the amount driven from the source to all destinations is always the actual amount. With Standard basis drivers, it is possible to drive more than the actual amount to the destinations. Overdriven cost is the amount that exceeds, or is “over” the actual amount that was driven from the source to all destinations.

Example of OverDriven Cost

Source X – 100 NetCostForAssignment assigned to 3 destinations (A,B,C)

- Destination A – 35 CostReceived
- Destination B – 35 CostReceived
- Destination C – 35 CostReceived

Source X – NetCostForAssignment = 100
Total amount driven from X to all destinations (CostAssigned) = 105
OverdrivenCost = 5
UnassignedCost = 0

These measures are related to overdriven costs and revenue:

- Measures on Stage Balancing Report
  - OverDrivenCost
  - OverDrivenRevenue
- Cost Layer Allocation Measures
  - OverDrivenCost
- Revenue Layer Allocation Measures
  - OverDrivenRevenue

You can view OverDriven Cost or Revenue on the Stage Balancing Report. See “Generating the Stage Balancing Report” on page 146.

Validating Model Structure

The model structure must be validated, one stage at a time, to ensure all required modeling rules have been applied. All stages must be validated before deploying the model.

The Structure Validation displays this information for the selected model stage:

- Unused Drivers displays any existing drivers that are not being used.
- Intrastage Assignments shows assignments with a source and destination within the same stage.
- Missing Assignment Destinations displays unassigned costs or revenue.
- Missing Driver Assignments lists assignments for which a valid driver has not been selected.
- Reciprocal Assignments shows any reciprocal assignments within the selected stage.
- Assignment Rules list any errors associated with an assignment rule.
- Rules and Explicitss displays all sources within the model that have both assignment rules and explicit assignments attached to the same source. Because only one type of assignment is allowed on an intersection, one of the assignments must be removed from that source.

Before a model can be successfully calculated, all errors in the model structure must be corrected. The only exception is the “No drivers are unused” warning, which can exist while still enabling the calculations to be successfully performed with unused drivers in the model.

To validate model stages:

1. In an open model, from Task Areas, select Validate, then Model Validation. The Model Validation screen is displayed.

2. Select the POV for the model to be validated and then click Go. 

3. From Layer, select the cost or revenue layer to begin the validation process.

When the validation is complete, the screen is updated to reflect the results.

4. Optional: Select the Unused Drivers tab to view any unassigned drivers in the model, and determine whether these drivers should be part of an assignment.

See “Selecting Standard Profitability Drivers” on page 92 to assign the driver.

5. On the Intrastage Assignments tab, view Assignments for the selected stage.
If any changes are required for the intrastage assignment, see “Working with Standard Profitability Assignments” on page 97.

6 Optional: Select the Missing Assignment Destinations tab to view all intersections that have value coming in, but no outgoing assignment. By definition, the final stage of the model is the only stage that does not require an outgoing assignment.

For each model stage, you must select the stage and the type of assignment:

- Select Show Assignment Rules to view all missing assignment rules destinations.
- Select Show Regular Assignments to view all missing regular assignment destinations.

With the exception of planned and expected unassigned costs or revenue, you must correct any missing assignments before the model can be calculated. See “Working with Standard Profitability Assignments” on page 97.

7 Optional: Select the Missing Driver Assignments tab to view all intersections that are missing driver assignments.

For each model stage, you must select the stage and the type of assignment.

You must correct any missing driver assignments before the model can be calculated. See “Selecting Standard Profitability Drivers” on page 92.

8 Optional: Select the Reciprocal Assignments tab to view any reciprocal assignments for a specific stage:

a. Under the Select Stage drop-down, select the stage of the model for which you want to view reciprocal assignments. Only stages that are marked as potential intrastage assignments are available from the list.

b. Select the regular assignments that you want to view.

The number of reciprocal assignments included in the loop in the model stage is displayed under Reciprocals. The dimension and member combinations for each part of the reciprocal loop are listed in sequence of operation. If any changes are required for the intrastage assignment, see “Working with Standard Profitability Assignments” on page 97.

Note: An exclamation mark (!) is displayed beside any reciprocal assignments that do not have other outbound assignments in the “Closed-loop cycle” column, or that have Standard Basis driver in the “Standard Basis” column.

9 Optional: On the Assignment Rules tab, click Validate to display error messages for the Assignment Rules.

You must correct incorrect assignment rules before the model can be calculated. After fixing the error, click Validate to ensure that the assignment rule is now correct.

10 Optional: Select the Rules and Explicit tabs to view all sources within the model that have both assignment rules and explicit assignments attached. In this case, one of the assignments must be removed from the source.

11 Optional: Select the Queries tab.

If dimensions or dimension members have been renamed or deleted, Smart View queries which reference the dimensions or dimension members become invalid. Smart View query
validation screen will validate all the queries and show the invalid queries with the error message.

12 When all errors on all tabs have been corrected, repeat the structure validation from step 1 until no errors are detected.

13 When the validation is successful, calculate the model. See Chapter 8, “Calculating Standard Profitability Models”.

Generating the Stage Balancing Report

After calculating the model, use the Standard Stage Balancing Report to validate the results by balancing assigned and input values to account for any unassigned costs. Separate reports must be generated for cost and revenue data.

Note: In order to generate the Stage Balancing report, the database must be deployed, data should be loaded, and then the database must be calculated.

The outline structure provides the following information for each stage:

- Inputs - summation of the values associated with the input balancing measure
- Total Output is the sum of all output measure values on the Destination stage. This value is associated with the Received balancing measure
- Amount output to each downstream stage
- Total output to downstream stages
- Total unassigned cost or revenue
- Total idle cost or revenue
- Over Driven costs or revenues

Depending on the contents of the model, some or all of these types of data are available in each model stage:

Table 11  Sources of Data for Stage Balancing Reports

<table>
<thead>
<tr>
<th>Measure or Formula</th>
<th>Essbase Measure Name</th>
<th>Source of Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Input (User-entered cost and revenue)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
  - CostInput  
  - RevenueInput | Essbase |
| Assg Input (Assigned Input) |  
  - CostReceivedPriorStage  
  - RevenueReceivedPriorStage | Essbase |
| Total Input | =Direct Input + Assigned Input | Calculated |
| Cost Assigned | CostAssignedPostStage  
  NetCostForAssignment | Essbase |
To print the report, select File, and then Print from the browser menu.

To generate stage balancing reports:

1. Before generating the report, ensure these applications and services are running:
   - Provider Services
   - Shared Services
   - Essbase

   **Note:** In order to generate the Stage Balancing report, the database must be deployed, data should be loaded, and then the database must be calculated.

2. Optional: If you want to display the Stage Balancing Report using the calculation database, run a default Calc All on the Calculation (BSO) database before generating the report.

3. In an open model, from Task Areas, select Validate, then Stage Balancing.
   The Stage Balancing screen is displayed.

4. Select the POV for the model, and then click Go.

5. From Layer, select the cost or revenue layer for the selected model.

6. From Source database, select the type of report to be generated:
   - **Reporting** (ASO database results) — Recommended
   - **Calculation** (BSO database results) — Before using the Calculation database (BSO) to generate the Stage Balancing Report, all calculations and default calculations must be executed and complete.
7 Click Run.

The report is generated.

8 Review the report, using one or more of these validations to verify the results:

- Total Input – Total Output — Idle = Unassigned Values
- Sum of all allocations to the stage = Assigned Input
- Sum of unassigned values + Idle = Direct Input
- You can also launch some predefined Smart View integrations from the Stage Balancing screen. The launch data points are represented as hyperlinks in the Stage Balancing screen and present values that have been contributed from one stage to another. You can drill down further on input or allocation data. For example, you could drill-down into Unassigned costs after an allocation run, or to examine input data that was used in the same run.

**Generating the Driver Data Report**

Use the Data Driver report to document, confirm, and update the driver data that has been entered into the model. In order to generate the Driver Data report, the database must be deployed, and data loaded, although the data load is optional.

You must run separate reports for cost and revenue data. If corrections are required, you may change the model structure in Profitability and Cost Management, or directly edit the data in Essbase, or Microsoft Excel.

A log file is automatically generated when the Driver Data Report is run to record any errors and warnings. The file, validationReport.txt, is saved in the home directory of the user who is running the Profitability and Cost Management application server.
To generate Driver Data reports:

1. Before generating the report, ensure these applications and services are running:
   - Provider Services
   - Shared Services
   - Essbase

   **Note:** In order to generate the report, the database must be deployed, and data loaded, but not calculated. In order to generate the Driver Data report, the database must be deployed, and the data should be loaded, although the data load is optional.

2. In an open model, from **Task Areas**, select **Validate**, then **Driver Data Report**.

   The Driver Data Report screen is displayed.

3. Select a POV for the selected model, and then click **Go**.

4. From **Layer**, select either the cost or revenue layer.

5. From **Source Stage**, select a source stage for the report.

6. From **Destination Stage**, select a destination stage for the report.

7. From **Driver**, select the driver for which you want to validate data.

   If required, click **Selector** and choose the driver from the Select Driver dialog box.

8. **Optional:** Select **Only missing data** to report only those allocations that have missing or incomplete driver data.

   **Note:** If you do not select this option, all allocations are generated for the report.

9. Select the type of assignments you want to include in the report:
Assignment Rules

Regular Assignments

10 **Click Generate** to generate the selected report.

The Generate button is unavailable while the report is being generated. When the report is complete, a confirmation message is displayed. The path to the report location in which the `validationReport.txt` file is posted, and its approximate file size are identified.

11 **Click OK** to dismiss the message.

12 **Navigate to the validationReport.txt** file, and review the report.

![Image of Notepad with the generated report]

13 **Edit the generated report** to resolve any missing or incomplete data.

You can edit the report directly in its text format, and import the results into Essbase.

Also, you can paste the data into Microsoft Excel, edit it, and return the driver data back to the report file, and then import it to Essbase.

14 **Optional**: To print the report, select **File**, and then **Print** from the text file menu.
After you validate the structure and data of a model, you must deploy the databases and then calculate the model. For Standard Profitability models, Profitability and Cost Management performs two calculations:

- Direct Allocation calculates the results of direct assignments for source and destination intersections.
- Genealogy calculates the allocation detail for source and destination intersections that are indirectly related rather than directly assigned to each other.

The direct allocation data is required for genealogy, so it must be calculated first.

You can run the operations directly from the screen, or schedule a suitable time.

**Caution!** Before calculating a model, ensure that cost, revenue, and driver data have been loaded into Essbase; otherwise, the calculation scripts run using an empty data set.

## Managing Databases

After validating the structure and data of a model, you must deploy both the Reporting and Calculation databases to create the metadata outlines.

**Note:** Whenever metadata is changed, you should redeploy the application. Any Performance Management Architect deployment should be followed by an Essbase deployment to keep metadata synchronized.
Use the following procedures to deploy the databases:

- “Deploying the Calculation Database” on page 152
- “Deploying Reporting Databases” on page 155

## Deploying the Calculation Database

The options on the Calculation Database tab apply only to the calculation database. A Calculation database is created using the Essbase Block Storage option (BSO) to create the metadata outline.

### Caution!

Oracle recommends that, before importing data or artifacts, you create a backup of the data in EPM Workspace and Essbase. Contact the administrator for assistance.

For the first deployment of a database, you should select the Replace Database option to create the database in its entirety. After the first deployment, when you need to redeploy the calculation database, you can select deployment options to retain or restore the existing artifacts and property setting in the new database.

The following artifacts may be retained:

- Essbase data
- System-generated and user-created calculation scripts
- Report scripts
- Substitution variables
- Rules Files
- Security Filters
- Database settings

For the Calculation database only, data may be exported using one of these formats:

- If there is at least one dense dimension with less than 1,000 dimension members, data is exported in a column format and a rule file is generated. The Rules file is generated after the new outline is created.

  This Rules File specifies the format of the data for Essbase. The file is located in the same folder as the Essbase Database Application folder that contains the exported data. The file name is formatted as follows:

  `RMMdxxxx.rul` or `RMMdxxxx.txt`

  where MM is the current month, dd is the current day of the month, and xxx is a generated unique identifier. The file name with the extension `.rul` contains the rule file, and the file name with the extension `.txt` contains the data file.

- If there is no dense dimension with less than 1,000 dimension members, data is exported in a flat file.
Before redeploying, the system analyzes the dimensions and generates a message advising which export option will be used. Any errors in the deployment are reported in `hpcm.log`.

- To deploy calculation databases:
  1. In an open model, from **Task Areas**, select **Calculate**, and then **Manage Database**.

The Calculation Database tab of the Manage Database screen is displayed.

2. **Under Essbase Information**, review the following information:
   - **Cluster** displays the name of the Essbase database server that contains the model.
   - **Calculation Application** displays the name of the application being deployed.
   - **Calculation Database** displays the name of the Essbase database to which the application is being deployed.

3. **Under Deploy Options**, select the **Database Options** for deploying the calculation database:
   - For the first deployment of a database, all selections are grayed out. This option creates the entire database for the first time.
   - To redeploy an existing database, select **Update Database** to retain existing artifacts and property settings in the new database, and change the outline to reflect current metadata.
   - For subsequent deployments, select **Replace Database** to remove the database and applications completely, and recreate them.

4. **Under Deploy Options**, select the **Data Options** to be used for the calculation database deployment:
   - Select **Archive Data Before Deploy** to export existing data to the application database folder. For the Calculation database, only level-0 data is exported. Data is exported in a
column format only if a dense dimension with fewer than 1,000 members exists; otherwise, the data is exported in native format.

- Select Archive Data and Reload After Deploy to automatically import the data back into Essbase, using the previously exported data files. A Rules File is generated if the data was exported in the column format when the new outline is created.

Caution! This option is available only if no dimensions are being added or removed. Dimensions can be added or removed in Performance Management Architect, or by adding, deleting, or changing a stage in Profitability and Cost Management.

- Optional: If Archive Data and Reload After Deploy was chosen, you can select Delete Data Archive After Reload to automatically delete the archived data only after the successful data reload.

5 Optional: Under Last Calculation Cube Deployment, review the date and time of the previous deployment.

6 Optional: Click Deploy Later to schedule a convenient date and time to run the deployment. See “Scheduling Taskflows” on page 172.

Caution! If this option is not selected when the task is created, you will not be able to schedule the task.

7 Optional: Click Deploy Now to deploy the Calculation database immediately.

A confirmation message is displayed, indicating that the job has started and identifying the assigned taskflow ID.

Caution! Depending on the size and complexity of the model, this operation may take a significant amount of time.

8 Monitor the progress of the deployment on the Status Page using the taskflow ID, as described in Chapter 9, “Monitoring Standard Profitability Job Status”.

9 If the Replace Database option was chosen, or the data import failed for some reason, after deployment, load data from the Essbase database to ensure that the calculations are not run on an empty data set.

You can load input level cost, revenue, and driver data in two ways:
- Load data directly into the application through the Data Entry window, under Manage Allocations. See “Editing Driver Data” on page 127.
- Load data into Essbase using Essbase data load techniques. See the Oracle Essbase Database Administrator’s Guide.

10 Calculate the model.

See “Calculating Direct Allocation Data” on page 157.
Deploying Reporting Databases

A Reporting database is created using the Essbase Aggregate Storage option (ASO). All calculations are performed through the database outline; and no calculation scripts are required. This option decreases retrieval times and increases scalability.

After you create the Reporting database, the dimension information in the Profitability and Cost Management model is used to generate the aggregate storage outline.

Any errors in the deployment are reported in `hpcm.log`.

To deploy calculation databases:

1. In an open model, from Task Areas, select Calculate, and then Manage Database.
   The Calculation Database tab of the Manage Database screen is displayed.

2. Select the Reporting Database tab.

3. Under Essbase Information, review the following information:
   - **Essbase Server** displays the name of the Essbase database server that contains the model.
   - **Reporting Application** displays the name of the application being deployed.
   - **Reporting Database** displays the name of the Essbase database to which the application is being deployed.

4. Under Deploy Options, select the Database Options for deploying the calculation database:
   - For the first deployment of a database, all selections are grayed out. This option creates the entire database for the first time.
   - To redeploy an existing database, select **Update Database** to retain existing artifacts and property settings in the new database, and change the outline to reflect current metadata.
For subsequent deployments, select **Replace Database** to remove the database and applications completely, and recreate them.

5 **Under Deploy Options**, select the **Data Options** to be used for the Reporting database deployment:

- Select **Archive Data Before Deploy** to export existing data to the application database folder. Only Level-0 data is exported for the Reporting database. For the Reporting database, data is always exported in the native format.

- Select **Archive Data Before Deploy and Reload After Deploy** to automatically import the data back into Essbase, using the previously exported data files. A Rules File is not generated for Reporting databases.

**Caution!** This option is available only if no dimensions are being added or removed. Dimensions can be added or removed in Performance Management Architect, or by adding, deleting or changing a stage in Profitability and Cost Management.

- Optional: If **Archive Data and Reload After Deploy** is selected, you can select **Delete Data Archive After Reload** to automatically delete the archived data only after the successful data reload.

6 **Optional:** Under Last Reporting Cube Deployed, review the date and time of the previous deployment.

7 **Optional:** Click **Deploy Later** to schedule a date and time to run the deployment. See “Scheduling Taskflows” on page 172.

**Caution!** If this option is not selected when the task is created, you will not be able to schedule the task.

8 **Optional:** Click **Deploy Now** to deploy the Reporting database immediately.

A confirmation message is displayed, indicating that the job has started and identifying the assigned taskflow ID.

**Caution!** Depending on the size and complexity of the model, this operation may take a significant amount of time.

9 Monitor the progress of the deployment using the taskflow ID, as described in Chapter 9, “Monitoring Standard Profitability Job Status”.

### Managing Calculations

After deploying the databases, you can calculate the model. Profitability and Cost Management performs two calculations:

- **Direct Allocation** calculates the results of direct assignments for source and destination intersections.

- **Genealogy** calculates the allocation detail for source and destination intersections that are indirectly related rather than directly assigned to each other.
Because the direct allocation data is required for genealogy, it must be calculated first.

You can run the operations directly from the screen or schedule a suitable time.

**Caution!** Before calculating a model, ensure that cost, revenue, and driver data have been loaded into Essbase; otherwise, the calculation scripts run using an empty data set.

Use the following procedures to manage calculations:

- “Calculation (Calc) Scripts” on page 157
- “Calculating Direct Allocation Data” on page 157
- “Transferring Data” on page 159
- “Genealogy Data” on page 160
- “Calculating Multistage Contribution Paths in Genealogy” on page 160

**Calculation (Calc) Scripts**

Calculation scripts detail all the calculations required for a model, and they must be generated for each model.

If only the cost, revenue, or driver data is changed, the calculation script can be used more than once for the same model. If any other model information is modified, the script must be regenerated to reflect the new calculations before it can be reused.

The calculation scripts are generated in the `$ARBORPATH/app/<application name>/<database name>` directory, on the machine where the configured Essbase server is running. If required, the administrator can view calculation scripts on the Essbase console.

**Calculating Direct Allocation Data**

The Allocation tab of the Manage Calculation screen is used to calculate the results of direct assignments for source and destination intersections. The results for each level contribute to the results and calculations for the next level.

From this option, you can select the stages for which you want to generate and run the calculation scripts. If a selected calculation script is obsolete, a warning message is displayed, and the calculation script should be regenerated.

► To calculate direct allocation data:

1. **In an open model, from Task Areas, select Calculate, then Manage Calculation.**
   
   The Allocation tab of the Manage Calculation screen is displayed.
2 Select the action to be performed for the selected stage:
   - **Clear Calculated** to remove previously calculated data
   - **Clear All** to remove any existing data
   - **Generate** to generate the calculation scripts
   - **Calculate** to calculate the data

3 **Optional:** Review the date and time of the last deployment of the calculation and reporting databases.

4 **Optional:** Select **Transfer data after calculation** to automatically transfer both the Cost and Revenue data to the Reporting database after the calculations are complete. The calculated data must be transferred to the ASO Reporting database in order to view the Stage Balancing report, or to generate validation reports.

5 Perform one of the following tasks:
   - Click **Run Later** to schedule a date and time to deploy the Calculation scripts, run the calculations or clear data. See “Scheduling Taskflows” on page 172

   **Note:** If this option is not selected when the task is created, you will not be able to schedule the task.

   - Click **Run Now** to deploy the Calculations scripts, run the calculations or clear data immediately. A confirmation message indicates that the job has started, and identifies the assigned taskflow ID.

   **Caution!** Depending on the size and complexity of the model, this operation may take a significant amount of time.
6 Monitor the progress of the deployment using the taskflow ID, as described in Chapter 9, “Monitoring Standard Profitability Job Status”.

7 After the Calculation database is calculated, transfer data to the Reporting database, as described in “Transferring Data” on page 159.

**Transferring Data**

After the Reporting database is deployed, transfer calculated allocation data to the Reporting database for one or more POVs. All Level 0 data — allocation and genealogy — is included in the transfer.

**Note:** The Calculation database must be calculated before the data can be transferred to the Reporting database.

- To transfer data to the Reporting Database:
  1. From Task Areas, select Calculate, then Manage Calculation.
     
     The Manage Calculation screen is displayed.
  2. Select a POV and Layer for the data transfer.
  3. Select the **Transfer Data** tab to copy the calculated data to the reporting database.

![Manage Calculation Screen](image)

4 Perform one of the following tasks:
   - Click **Transfer Later** to schedule a date and time to run the transfer. See “Scheduling Taskflows” on page 172.
   - Click **Transfer Now** to run the transfer immediately.
Caution! Depending on the size and complexity of the model, this operation may take a significant amount of time.

5 When the data transfer is complete, use Reporting and Analysis tools, such as Web Analysis and Financial Reporting, or Microsoft Excel, to create reports and view results. See “About Running Reports for Standard Profitability Models” on page 175.

Genealogy Data

Genealogy data calculates the allocation detail for source and destination intersections that are indirectly related, rather than directly assigned to each other. Therefore, the results of one level may not contribute to the next level, but must contribute to some downstream intersection. Genealogy can be calculated for both the Cost and Revenue layers.

For example, in the following diagram, the results for Personnel and Manufacturing in Stage One of the model contribute to Bike Trailer costs in Stage Three.

Calculating Multistage Contribution Paths in Genealogy

When calculating genealogy, you can generate data to analyze contributions through multiple stage combinations. This feature enables you to examine how values from one stage contribute to results in a later stage, and provides visibility on the intermediate stages through which those values passed.
Genealogy data is calculated for multiple paths. Depending on the layer selection when you run the calculation, either cost or revenue is calculated in a single run. You cannot run both layers in one genealogy calculation.

After the genealogy calculation is performed, the data for all stage selections is saved, so that any time you return to the screen, you see the last combination of stage selections. When a new genealogy calculation is performed, all previously calculated genealogy data is erased and is replaced by the new results.

To trace contributions through multiple stages:

1. Optional: From Task Areas, select Manage Model, and then Stages to view the valid stage names and numbers.
2. From Task Areas, select Calculate, and then Manage Calculation.
3. Select the Genealogy tab.
4. Click Add to display the Add Contribution Path dialog box.
5. Enter the stage numbers for the required contribution path in the text box, separated by hyphens, and then click OK.
When selecting the stages for inclusion in the Contribution report, these restrictions are applied:

- At least two stages must be entered.
- Valid stage numbers must be entered in ascending order, separated by a hyphen. For example, “1-3-5” or “2-4.”
- Each stage number must be entered only once in a contribution path.
- There must be at least one stage between the first and last stages selected for genealogy calculations. For example, “2-3” is an invalid selection.

The contribution path is listed under Selections on the Genealogy tab.

**Note:** The date of the Last Genealogy Calculation is displayed. Data from that calculation is saved and is available until the next genealogy calculation.

6 **Select an option to run the calculations:**

- To schedule the task to run at a more convenient time, click Run Later. See “Scheduling Taskflows” on page 172.
- To perform the operation immediately, click Run Now.

To optimize calculations and to enable more than one path to be calculated at the same time, all calculations are run at once.

7 **Click Yes.**

An information message is displayed, advising that the job has been started, and providing the Taskflow ID.

8 **Make a note of the Taskflow ID, and then click OK.**

9 From Task Areas, select Job Status, and then Search Task to monitor the progress of the task.

10 After the taskflow is completed, verify the results in the Essbase database.

11 Create a Contribution Report in the reporting tool of the choice to view the calculation results.
Job Library

Subtopics

- Job Library Job Types
- Viewing the Job Library

The Job Library lists all currently submitted or scheduled jobs for all models and all users for Standard Profitability applications.

Click any column in the Job Library to sort the jobs by Start Date and Time, Application Name, Job Type, Comment, User, Task Flow ID, or Status Message. Click again to reverse the sort.

Job Library Job Types

There are six job types that may be processed, and the Job Details information on the Job Library changes, depending on the Job Type:

- Allocation Calc-Standard
  - Job Details: Processing Options, custom scripts and model and data POVs that were selected when the calculation was set.
  - Job Finished: Date and time that the job is finished
  - ODL Task ID

  See "Managing Calculations" on page 156.

- Copy POV
- Job Details: Source and Target POVs that were selected when the calculation was set, and the Copy Configuration
- Job Finished: Date and time that the job is finished
- ODL Task ID

See “Copying Standard Profitability POVs” on page 72.

- **Cube Deployment**
  - Job Details: Name of the Essbase application, database options, and data options
  - Job Finished: Date and time that the job is finished
  - ODL Task ID

- **Genealogy Calculation**
  - Job Details: Selected POV
  - Stages: Stages of the genealogy; for example: 1-3-5, 1-5
  - Job Finished: Date and time that the job is finished
  - ODL Task ID

- **Import Staging Tables**
  - Job Details: Import configuration
  - JDBC Connection
  - Staging Table Selections for the import
  - Job Finished: Date and time that the job is finished
  - ODL Task ID


- **Transfer Data**
  - Job Details: Selected POV
  - Job Finished: Date and time that the job is finished
  - ODL Task ID

### Viewing the Job Library

1. To view the Job Library:

   1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application for which jobs have been submitted.

   2. In an open model, from **Task Areas**, select **Jobs Status**, and then **Job Library**.

   3. Under **Job Listing**, view the information for each job:
- **Start Date/Time** displays the date and time on which the job was submitted or is scheduled to be run.

- **Application** displays the name of the application for which the task is being run.

- **Job Type** displays the type of task that is being performed. See “Job Library Job Types” on page 163.

- **Comment** shows a user-entered note or details about that specific job, such as Initial Run, Bulk Edit or Add Drivers. The Comment is entered when the task is submitted.

- **User** identifies the User ID of the individual who submitted the task for processing.

- **Task Flow ID** is the system-generated task ID for the specific task, displayed in the format `<application name>:<task name><generated taskflow number>.

  For example, the generated taskflow number may be displayed as Demo04_RunCalcs_D20111103T183447_fbe, where Demo04 is the application name, RunCalcs is the task, and D20111103T183447_fbe is the generated taskflow instance ID. See “Managing Detailed Profitability Taskflows” on page 313.

- **Status** displays a message about the current state of the taskflow, such as Running, Success or Failure.

- **Errors**

- **Warnings**

4 **Optional:** Under Job Details, review the job options that were used for the execution of the highlighted job. The format of the details changes depending on the job type highlighted. The Processing Options, Custom Scripts, and POV options are displayed as applicable.

  For additional information, see “Job Library Job Types” on page 311.

5 **Optional:** Use the Find text box at the bottom of each column to locate a job by entering text in the Find field attached to the column in which it resides. See “Using the Find Feature” on page 40.

6 **Under Job Finished,** view the date and time that the highlighted task was completed.

7 **Under ODL Task ID,** view the ID for the highlighted job to assist in locating error or warning messages in hpcm.log.

  In the hpcm.log file, use Find and the ODL Task ID to locate the start of the logging detail text for the selected job. After locating the start of the log entries, you can search down to find an “ERROR” in the file.

8 **Optional:** If required, click Stop Job to end the highlighted task in Running state.

**Caution!** While the task flow stops quickly after the button is pressed, activities that affect results may require additional time to ensure that the state of the data is consistent.

For detailed instructions on using EPM Workspace taskflows, see the *Oracle Hyperion Enterprise Performance Management Workspace User’s Guide.*
Managing Taskflows

Taskflows automate business processes, in whole or part. Tasks are passed from one taskflow participant to another, according to a set of procedural rules. In Profitability and Cost Management, taskflows are created in these circumstances:

- Staging tables are imported
- POV data is copied
- Calculation database is deployed
- Reporting database is deployed
- Calculation and genealogy scripts are generated and executed
- Data is transferred from the calculation database to the reporting database

Note: Taskflows are not available when validating the model contents or structure.

A taskflow ID is automatically generated for each task. Every time you run a task, a new task ID is generated. A taskflow can include one or more steps. Each taskflow step represents a single action in Profitability and Cost Management:

- A one-step taskflow performs one action, such as the generation of the Essbase database.
- Multistep taskflows perform multiple actions, such as the script processing to generate or execute a calculation script.

In Figure 4, you can see an example of a multistep taskflow with six steps:

- Three steps for creating scripts (shown with a “C” prefix), and
- Three steps for executing scripts (shown with an “E” prefix).

Note: The taskflow step numbers indicate the task sequence, not the stage sequence.
When you initiate a taskflow, a taskflow step is created and a taskflow ID is assigned (for example, 'wf-1201275329264'). The ID enables you to monitor the progress of the taskflow. A new Taskflow ID is created each time you initiate a taskflow instance. If a taskflow is interrupted or restarted, it always begins again at step 1.

Each taskflow step is executed in sequence, beginning with the first step. When the results for one step are completed, the next step is initiated. Status is only complete when all steps in the taskflow have been performed.

You can use the Job Status option to view the taskflow status and details, or to schedule the running of the taskflow on a one-time or recurring basis.

In order to access the Job Process monitoring option, the following conditions must be satisfied:

- Profitability and Cost Management must be configured to use external authentication and Shared Services functionality. See the Oracle Enterprise Performance Management System Installation and Configuration Guide.
- Taskflow users must be assigned one of the following Shared Services roles to perform taskflow operations:
  - Manage Taskflows—Permits users to create and edit taskflows.
  - Run Taskflows—Permits users to only run and view taskflows. Users with this role cannot create or edit taskflows.

**Note:** Both Shared Services roles are global user roles. Users assigned these roles can either modify or run taskflows for any application and product. See the Oracle Enterprise Performance Management System User Security Administration Guide.

- A taskflow must be created by calculating or generating calculation scripts and models before you can view details in the Job Status options. See Chapter 8, “Calculating Standard Profitability Models”.


Caution! Although you can add or remove steps and links, and create new taskflows from the Taskflow screens, Oracle recommends that you do not modify Profitability and Cost Management taskflows. For additional information on using EPM Workspace taskflows for other products, see the Oracle Hyperion Enterprise Performance Management Workspace User’s Guide.

Use these procedures to monitor and schedule taskflows:

- “Viewing Taskflow Information” on page 168
- “Viewing Taskflow Status” on page 169
- “Viewing Task Details” on page 171
- “Scheduling Taskflows” on page 172

**Viewing Taskflow Information**

The Taskflow Listing Summary shows the existing taskflows for the selected application, and provides basic details for each one.

To view taskflow information:

1. **In an open model, from Task Areas, select Jobs Status, then Manage Task Flow.**

   The Taskflow Listing Summary screen is displayed.

   The Summary displays this information for each taskflow that exists for the selected application:

   - **Application** displays the application name.
   - **Taskflow** displays the generated taskflow number.
     
     For example, the generated taskflow number may be displayed as HPM_ImportStaging_382728be43623bc2, where HPM is the product name, Import Staging is the task, and 382728be43623bc2 is the generated application instance ID.
   - **Created By** displays the ID of the user who created the taskflow.
   - **Description** provides a brief explanation of the task.
2 Optional: Click the radio button beside a taskflow, and click Schedule Taskflow to schedule the running of the task for a more convenient time or date.

3 Use the Taskflow Listing Summary screen to perform various actions, such as deleting a taskflow or scheduling the run of a taskflow. For detailed instructions on using EPM Workspace taskflows, see the Oracle Hyperion Enterprise Performance Management Workspace User's Guide.

Viewing Taskflow Status

In the Taskflow Status Summary screen, you can view and update the status of existing taskflows. You can also filter the taskflow list to display taskflows with a specified status or date range. A participant ID is created for each generated step in the taskflow. You can drill-down on an individual taskflow to view details of the associated participant summary.

To view taskflow status:

1 In an open model, from Task Areas, select Jobs Status, then Search Process.

The Taskflow Status Summary screen is displayed.
2 Select one or more search criteria to locate the taskflow you want to view:

   a. Under **Status**, select a status of the taskflow you want to view:
      - Active
      - Done
      - Stopped
      - All

   b. Under **Application**, select an Application ID.

   c. Under **Taskflow**, select a Taskflow ID.

   d. For **Initiated Between**, click **calendar** 📅, and select a start and end date for the search range.

      **Note**: Depending on the requirements, you may leave all search fields blank to display all taskflows, or make the search as specific as possible to narrow the results.

3 **Click Search.**

The search results are displayed at the bottom of the screen:

   - ID (This is the participant ID, which is automatically generated for the taskflow.)
   - Application ID
   - Taskflow ID
   - Initiator of the taskflow
   - Time that the taskflow began running
   - Current Status of the taskflow
- Description of the taskflow

4 Optional: Click Refresh to update status information.

5 Optional: To end the currently running step of a multi-step taskflow, click the checkbox beside the appropriate taskflow, and click Stop.

The taskflow stops when the application returns the results of the selected step. The results for previous steps are not discarded; however, if the taskflow is re-run, it begins at the first step.

6 Optional: To view details of a taskflow and its status, double-click the taskflow name.

The Taskflow Participant Summary is displayed, showing details of the task and its status.

7 Click Cancel to return to the Taskflow Status Summary.

Viewing Task Details

You can view the details for an existing taskflow using the Task Details option.

A new task ID is generated each time you run a task.

➤ To view task details:

1 In an open model, from Task Areas, select Jobs Status, then Search Task.

The My Tasks screen is displayed.

2 Select one or more search criteria to locate the taskflow you want to view:
   a. Under Status, select a status, such as New, Active, Done, or All.
   b. Under Application, select an Application ID.
c. Under Taskflow, select the generated Taskflow ID.

**Note:** Depending on the requirements, you may leave all search fields blank to display all taskflows, or make the search as specific as possible to narrow the results.

3 Click **Search**.

The results of the search are displayed.

4 **Optional:** Use the forward and back arrows to scroll through the results. The current page in the sequence and the total number of pages are displayed.

5 **Optional:** Click **Refresh** to update status information.

6 Select a taskflow, and then click **View Status**.

The Taskflow Participant Summary is displayed, showing details of the job and current status for the selected step in the taskflow.

7 Click **Cancel** to return to the Job Status screen.

## Scheduling Taskflows

You can schedule the running of a taskflow on a one-time or recurring basis.

**Note:** If you want to schedule the taskflow, you must have selected the “Run Later” option when you created the task.

➢ To schedule taskflows:

1 In an open model, from Task Areas, select **Job Status**, then **Manage Task Flow**.

The Taskflow Listing Summary screen is displayed. The Summary displays this information for each existing taskflow:

- Application Name in the format `<product name>:<application ID>`. For example, HPM: 382728be43623bc2 where HPM is the product name and 382728be43623bc2 is the generated application instance ID.
- Generated Taskflow Number
- ID of the user who created the taskflow
- Description of the purpose of the taskflow

**Note:** A new task ID is generated each time you run a task.
2 Select the taskflow for which you selected the “Run Later” option when creating the task.

3 Click Schedule Taskflow.

4 Under Starting Event, select ScheduledEvent.
The Server Date is displayed.

5 Under **Start Date**, click calendar to select the date on which the taskflow is scheduled.

6 Under **Start Time**, use the drop-down lists to select the time at which the taskflow is scheduled to begin.
   You must select the hour and minutes, and whether the time is set for AM or PM.

7 **Optional:** To schedule jobs to run on a recurring basis:
   a. Select **Recurrence**.
   b. Under **Recurrence Pattern**, select a frequency, such as Monthly, Weekly, and so on.
   c. Select a recurrence pattern, and enter the required variables, as indicated in the following examples:
      ● Day \( x \) of every \( x \) Month(s)
      ● The \( x \) day of Every \( x \) Month(s)

8 **Optional:** To schedule the taskflow to run until it is manually cancelled or deleted, select **No End Date**.

9 **Optional:** To schedule the taskflow to run a specified number of times, select **End After \( x \) Occurrences**. In the text box, enter the number of times the job is to be run.
   
   **Note:** This option is available only if a Recurrence schedule of Daily or Weekly is selected.

10 **Optional:** To run the taskflow until a specified date, select **End Date**, and select the date and time of the final run:
    a. Under **End Date**, click calendar to select a date.
    
    **Note:** Calendar is displayed when the End Date option is selected.
   b. Under **End Time**, select the time of the last run. You must select the hour, minute and whether the time is set for AM or PM.

11 **Click Save** to save the scheduled job.
   The taskflow runs as scheduled.
Running Standard Profitability Reports

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About Running Reports for Standard Profitability Models

There are internal reports for validating the model; for example, the stage balancing screen and data entry views. You can also run system reports following calculations. In addition to these, you can use the Manage Queries screen to build and manage Smart View queries to be run against the Calculation or Reporting Cubes created by Profitability and Cost Management. Running the queries from the query management screen launches Smart View with the query results. The details are discussed in the following sections.

You can also use other Oracle reporting tools or third-party reporting tools to report against the Essbase cubes to view calculation results:

- Web Analysis
- Financial Reporting
- Smart View can also be independently used to report against the Essbase cubes or launched in the context of a query from the Manage Queries screen

Using these reporting tools, you can generate the reports to view exactly the information you require. The procedures shown in this section suggest steps you need to take to build the reports, but you must use the supporting documentation for the selected reporting tool for detailed instructions on creating and running the reports.

See these sections:

- “Essbase Outlines and Reporting” on page 176
- “Reporting on Stage Data” on page 177
Essbase Outlines and Reporting

The Essbase outline created for the Profitability and Cost Management model contains separate dimensions to store the data for each stage. Although stages do not exist in the Essbase outline, they are used to organize dimensions and members within the model. When creating the stage in Profitability and Cost Management, a prefix is defined to identify the stage to which a dimension belongs, and this prefix is displayed in the outline.

1. AllocationType identifies DirectAllocation or GenealogyAllocation data
2. Measures dimension identifies measures used in the model.
3. POV dimensions - at least one must be available.
4. Stage prefix identifies the stage to which the dimension belongs.
5. The _intra suffix identifies dimensions which are used in intrastage assignments.
6. Business dimensions from the model.

Using the dimensions in the Essbase outline, you build the report with the information and level of detail that you require. You can select the dimensions that you want to include in the report, although these dimensions are usually required:

- AllocationType dimension to specify whether the report includes DirectAllocation or GenealogyData.
- POV dimensions
- Measures dimensions
- Business dimensions
- Attribute dimensions
For stages that allow intrastage allocations, Essbase attaches a suffix “_intra” to the dimension to identify it as part of an intrastage allocation. For example, if the stage dimensions are OPS_Products and OPS_Activities, the destination data for intrastage allocations is stored in the OPS_Departments_intra and OPS_Activities_intra dimensions.

Caution! In any Essbase outline, ensure all dimensions have a unique name; otherwise, the creation of the outline will fail. For example, an attribute dimension member name cannot match a regular dimension name.

Reporting on Stage Data

You can generate reports to provide details about an individual model stage.

Example of Stage Data Report Selections

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Period</td>
<td>January</td>
<td>GL_Accounts</td>
<td>NoMember</td>
</tr>
<tr>
<td>2</td>
<td>Year</td>
<td>2000</td>
<td>GL_Departments</td>
<td>NoMember</td>
</tr>
<tr>
<td>3</td>
<td>Scenario</td>
<td>Actual</td>
<td>OPS_Departments_intra</td>
<td>NoMember</td>
</tr>
<tr>
<td>4</td>
<td>AllocationType</td>
<td>DirectAllocation</td>
<td>OPS_Activities_intra</td>
<td>NoMember</td>
</tr>
<tr>
<td>5</td>
<td>PHOOS_Products</td>
<td>NoMember</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>CUST_Customers</td>
<td>NoMember</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>MNT_Customers</td>
<td>NoMember</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>MNT_Products</td>
<td>NoMember</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>MNT_Regions</td>
<td>NoMember</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The sample report above shows the layout of dimensions used to create the stage data report:
1. AllocationType set to DirectAllocation
2. All dimensions in other stages are set to NoMember.
3. Stage dimensions

To report on Stage Data:
1. Generate and calculate the Essbase cube for the model, as outlined in Chapter 8, “Calculating Standard Profitability Models”.
2. From the reporting application, connect to the Essbase cube.
3. Drag and drop the dimensions into the configuration you require. For example, place source stage intersections in the rows, and destination stage intersections in the columns, or vice versa.
4. Select members from each dimension in the source stage to define the source intersections on which you want to report.
5. Select members from each dimension in the destination stage to define the destination intersections on which you want to report.
From the AllocationType dimension, select **DirectAllocation**.

Select a member from each POV dimension.

From the Measures dimension, select the measures on which you want to report.

For all other dimensions, select **NoMember**.

Using instructions for the reporting application, run the report.

### Reporting on Direct Allocations

A direct allocation is an allocation for which the source and destination intersections are directly linked by an assignment.

**Example of Direct Allocation Report Selections**

The sample report above shows the layout of dimensions used to create the direct allocation data report:

1. AllocationType set to DirectAllocation
2. All dimensions in other stages are set to NoMember.
3. Source stage intersections
4. Destination stage intersections

To report on Direct Allocations:

1. Generate and calculate the Essbase cube for the model, as outlined in Chapter 8, “Calculating Standard Profitability Models”.
2. From the reporting application, connect to the Essbase cube.
3. In the Source Stage, select members from each dimension on which you want to report.
4. In the Destination Stage, select members from each dimension on which you want to report.

   **Note:** If there is an intrastage allocation, use the dimensions with the suffix _intra to specify the destination intersections.

5. From the AllocationType dimension, select **DirectAllocation**.
6 Select a member from each POV dimension.
7 From the Measures dimension, select the measures on which you want to report.
8 For all other dimensions, select \textbf{NoMember}.
9 Using instructions for the reporting application, run the report.

\section*{Reporting on Allocation Genealogy}

The Allocation Genealogy report calculates the allocation detail for source and destination intersections that do not have an assignment, but which have an indirect relationship.

\textbf{Example of Allocation Genealogy Report Selections}

The sample report above shows the layout of dimensions used to create the allocation genealogy report:

1. AllocationType set to IndirectAllocation
2. All dimensions in other stages set to NoMember
3. Start point intersections
4. End point intersections

\begin{itemize}
\item To report on Allocation genealogy:
\begin{enumerate}
\item Generate and calculate the Essbase cube for the model, as outlined in Chapter 8, \textit{“Calculating Standard Profitability Models”}.
\item From the reporting application, connect to the Essbase cube.
\item In the Source Stage, select members from each dimension in the stage that is the starting point.
\item In the Destination Stage, select members from each dimension in the stage that is the ending point.
\end{enumerate}
\end{itemize}

\textbf{Note:} If there is an intrastage allocation, use the dimensions with the suffix \texttt{\_intra} to specify the destination intersections.

5 From the AllocationType dimension, select \textbf{GenealogyAllocation}.
6 From the Measures dimension, select the measures on which you want to report.
7 Select a member from each POV dimension.
8 For all other dimensions, including dimensions for intermediate stages between the start and end point stages, select NoMember.
9 Using instructions for the reporting application, run the report.

Running Standard Profitability System Reports

Following calculation of a Standard Profitability model, you can run the following system reports:

- **Genealogy Statistics** — Statistics including Start Time, End Time, Elapsed Time, and Number of Actual Cells, by genealogy subpath, for genealogy calculations where source and destination intersections have an indirect relationship
- **Dimension Statistics** — Number of dimension members, number of level 0 members, and number of hierarchy levels for each dimension in the current application.
- **Execution Statistics** — Runtime statistics collected for the selected Allocation Calc - Standard job following the end of the job

To generate a Standard Profitability system report:

1 In an open Standard Profitability model, in the Reporting task area, select System Reports.
2 In the System Reports screen, select one of the following for each setting:
   - **Output Type** — PDF (Adobe PostScript), Microsoft EXCEL, Microsoft WORD, XML, HTML
3 Enter the Job Id from the Job Library task area for Genealogy Statistics and Execution Statistics reports.

   **Note:** Dimension Statistics reports do not require Job Id or other parameter information.

4 Click Run.
5 Indicate whether to open or save the report.

See these sections to review report examples:

- Figure 5 on page 181
- Figure 6 on page 182
- Figure 7 on page 182

Standard Profitability Genealogy Statistics Report Example

Genealogy Statistics reports show runtime statistics for genealogy calculations, where source and destination intersections have an indirect relationship. Statistics include Start Time, End Time,
Elapsed Time, and Cells Updated, listed by genealogy subpath (similar to Figure 5 on page 181).

**Figure 5**  Example of a Standard Profitability Genealogy Statistics Report

![Profitability Genealogy Statistics Report](image)

**Standard Profitability Dimension Statistics Report Example**

Dimension Statistics reports show the number of dimension members, number of level 0 members, and number of hierarchy levels for each dimension in the current application. Potential values are possible mathematical combinations that might not all be used (similar to Figure 6 on page 182).
Standard Profitability Execution Statistics Report Example

Execution Statistics reports show runtime statistics collected for the selected Allocation Calc - Standard job type following the end of the job (similar to Figure 7 on page 182).

Figure 7  Example of a Standard Profitability Execution Statistics Report
Reporting Using Smart View

Smart View provides a Microsoft Office interface for Essbase and other data sources. From Excel, Word or PowerPoint, you connect to Essbase and access Smart View functionality through the Hyperion menu that is displayed on the Office product toolbars when Smart View is installed. You can generate reports that can be displayed as a grid, chart or scrollable table.

This procedure is designed to provide an overview of the report creation process, but you must refer to the Oracle Smart View for Office User’s Guide for detailed procedures on setting up and using Smart View to view the results.

To report using Smart View for Office:

1. Generate and calculate the Essbase cube for the model, as outlined in Chapter 8, “Calculating Standard Profitability Models”
2. Open Microsoft Excel.
3. In Smart View, select Hyperion, Connection Manager and connect to the Essbase database. See the Oracle Smart View for Office User’s Guide.
4. Create the report as outlined in the Oracle Smart View for Office User’s Guide.
Managing Smart View Queries in Standard Profitability

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Smart View integrations are available for Standard Profitability models only to provide help with data management, run diagnostics for allocation data, and enable analysis of both allocation and genealogy data. In addition, the Smart View integration provides context-sensitive investigation tools that can be launched from Stage Balancing.

Smart View queries provide users with quick access to views of Profitability and Cost Management data. The queries can be defined against either the Calculation or Reporting database, and after Smart View is launched, the grid can be used for analysis. Data entry may also be performed against the Calculation database.

The Manage Queries screen enables you to select a query type, and then refine the query using a grid and a Smart View POV. The queries can be saved and reused, or cloned by other Profitability and Cost Management users. The queries can also be exported and reimported using Lifecycle Management.

The default queries offer different views, depending on the query type selected. Each of the queries enable additional selections for the selected type. For example, the Driver Measures query type prompts the user to specify the driver location (Source, Assignment, Destination) and the stage combinations in order to complete the dimension defaults that are presented on the dimension layout and member selection screen.

You can also launch some predefined Smart View integrations from the Stage Balancing screen. The launch data points are represented as hyperlinks in the Stage Balancing screen and present values that have been contributed from one stage to another. You can drill down further on input or allocation data. For example, you could drill-down into Unassigned costs after an allocation run, or to examine input data that was used in the same run.

If any dimensions or dimension members are renamed or deleted, the Smart View queries that reference those dimensions become invalid. The Smart View query validation screen validates all queries, and displays an error message for any invalid queries.
Only users provisioned as Admin or Power users may create, edit, copy, or delete queries. Admin, Power and Interactive users may all launch queries from the application.

Creating Custom Queries

➤ To create queries:

1   Before creating the query, ensure the following products are installed, configured and running:
   ● Provider Services
   ● Shared Services
   ● Essbase
   ● Microsoft Excel is installed with Smart View on the client machine

2   From the Task Area, select Reporting, and then Manage Queries.

   The Manage Queries screen is displayed, showing all existing queries for all applications for which the user is provisioned as an Admin or Power user.

3   Click Add to open the Query wizard.
4 On Step 1: Query Options, enter the following information for the new query:

- **Name** for the query
- **Optional**: Description of the query
- Select the **Application** to be used for the query from the drop-down list
- Select the **Database** to be used for the query from the drop-down list:
  - Calculation (BSO)
  - Reporting (ASO)
- **Optional**: Enter a descriptive **Search Tag** to be used to sort queries in the main Smart View Query screen.

5 Under **Type**, select the type of query to be created:

- **Driver Measures**
- **Stage Measures**
- **Contribution**
- **Custom**

Depending on the Type that is selected, the additional query options change to reflect the choice. See Table 12, “Query Type Options”.

6 Select the **Query Options** based on the selected Type:
Table 12  Query Type Options

<table>
<thead>
<tr>
<th>Query Type Selected</th>
<th>Type</th>
<th>Query Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Measures</td>
<td>Assignment</td>
<td>Select the Source and Destination stages.</td>
</tr>
<tr>
<td>Driver Measures</td>
<td>Source</td>
<td>Select the Source stage.</td>
</tr>
<tr>
<td>Driver Measures</td>
<td>Destination</td>
<td>Select the Destination stage.</td>
</tr>
<tr>
<td>Driver Measures</td>
<td>Global</td>
<td>N/A</td>
</tr>
<tr>
<td>Stage Measures</td>
<td></td>
<td>Select the Stage to be used for the query.</td>
</tr>
<tr>
<td>Contribution</td>
<td>Direct Allocation</td>
<td>Select the Source and Destination Stages.</td>
</tr>
<tr>
<td>Contribution</td>
<td>Genealogy</td>
<td>Select the Contribution Path (for example, 1-3-5).</td>
</tr>
<tr>
<td>Custom</td>
<td></td>
<td>Select as required. No default is expected.</td>
</tr>
</tbody>
</table>

7 Optional: Under Smart View Options, select Suppress #Missing to set the data suppression option for the first query in Smart View, if required.

Note: If you select Suppress #Missing, the Smart View option is only set for the first query run, not all queries. To set the option for subsequent drills into the data, set the option manually in Smart View.

8 Optional: Under Smart View Options, select Use Dimension Aliases to display any assigned aliases for all dimensions in the query.

9 Click Next.

Step 2 - Dimension Layout is displayed.
10 Under Dimensions, for each Dimension, select the Position for the placement of the dimension under
the Dimension Position column on the screen using the drop-down list:

- POV
- Rows
- Columns

By default, all dimensions in the application outline are displayed, and selections are set to
defaults that are appropriate for the type of query you are creating.

For example, if you select stage measures for a specific stage, the dimensions for that stage
display in the Rows section, and the top member of the first hierarchy is pre-selected for
each of the stage dimensions. The other stage dimensions are placed in the Smart View POV
section, and the “NoMember” member from each stage is selected.

11 Optional: Under Dimension Position, in the Smart View POV section, use the Up and Down arrows to
change the position of a highlighted dimension in the query.

12 Optional: Under Dimension Position, in the Rows section, use the Up and Down arrows to change the
position of a highlighted dimension in the query.

13 Optional: Under Dimension Position, in the Columns section, use the Up and Down arrows to change
the position of a highlighted dimension in the query.

14 Click Next.

Step 3 - Member Selections is displayed. All dimensions from the Smart View POV, Rows
and Columns are displayed in the order defined on the Dimension Layout screen. Use the
arrows to scroll up or down through the list.

15 Under Dimension Member Selections, use the Add arrow to move the dimension members to be
included in the query to the Selected Dimension Members column.
The list displays all dimension members, including alternate hierarchies and the NoMember member. Because there are no restrictions on level, alternate hierarchy, shared or base member, any member may be selected.

Use the Ctrl key to select multiple dimensions, or the Shift key to select the first and last members in a range.

16 Click Finish.

The new query is added to the Manage Queries screen.

Note: Before running the query, the database must be deployed. Although the database does not need to be calculated before running the query, results will be missing if it is not.

Editing Custom Queries

To edit queries:

1 From the Task Area, select Reporting, and then Manage Queries.

The Manage Queries screen is displayed, showing all existing queries for all applications for which the user is provisioned as an Admin, Power.

2 Click the Edit Query button to open the query wizard.

3 On Step 1: Query Options, modify any of the following fields to modify the query:

   - Name for the query
   - Optional: Description of the query
   - Select another Database to be used for the query from the drop-down list:
Calculation (BSO)

Reporting (ASO)

Optional: Enter a descriptive Search Tag to be used to sort queries in the main Smart View Query screen.

**Note:** You cannot modify the Query Type or Query Options. To change the Type, create a new query.

4 **Optional:** Under Smart View Options, select Suppress #Missing to set the data suppression option for the first query in Smart View, if required.

**Note:** If you select Suppress #Missing, the Smart View option is set only for the first query run, not all queries. To set the option for subsequent drills into the data, set the option manually in Smart View.

5 **Optional:** Under Smart View Options, select Use Dimension Aliases to display any assigned aliases for all dimensions in the query, if required.

6 Click Next.

Step 2 - Dimension Layout screen is displayed.

7 Under Dimensions, for each Dimension, select the Position for the placement of the dimension under the Dimension Position column on the screen using the drop-down list:

- Smart View POV
- Rows
- Columns
By default, all dimensions in the application outline are displayed, and selections are set to defaults that are appropriate for the type of query you are creating.

For example, if you select stage measures for a specific stage, the dimensions for that stage display in the Rows section, and the top member of the first hierarchy is pre-selected for each of the stage dimensions. The other stage dimensions are placed in the Smart View POV section, and the “NoMember” member from each stage is selected.

8 Optional: Under Dimension Position, in the Smart View POV section, use the Up and Down arrows to fine tune the position of a highlighted dimension in the query.

9 Optional: Under Dimension Position, in the Rows section, use the Up and Down arrows to fine tune the position of a highlighted dimension in the query.

10 Optional: Under Dimension Position, in the Columns section, use the Up and Down arrows to fine tune the position of a highlighted dimension in the query.

11 Click Next.

Step 3 - Member Selections is displayed. All dimensions from the Smart View POV, Rows and Columns are displayed in the order defined on the Dimension Layout screen. Use the arrows to scroll up or down through the list.

12 Under Dimension Member Selections, use the Add arrow to move the dimension members to be included in the query to the Selected Dimension Members column.

The list displays all dimension members, including alternate hierarchies and the NoMember member. Because there are no restrictions on level, alternate hierarchy, shared or base member, any member may be selected.

Use the Ctrl key to select multiple dimensions, or the Shift key to select the first and last members in a range.

13 Click Finish.
The modified query is saved and available on the Manage Queries screen.

**Duplicating Smart View Queries**

1. **From the Task Area, select Reporting, and then Manage Queries.**
   
   The Manage Queries screen is displayed, showing all existing queries for all applications for which the user is provisioned as an Admin or Power user.

2. **Click the Duplicate Query button.**
   
   The Create Duplicate Smart View Query dialog box is displayed.

3. **Enter a name for the new query, and then click OK.**
   
   The new query is saved and added to the list on the Manage Queries screen.

**Deleting Custom Smart View Queries**

1. **Ensure no other users require this query.**

2. **From the Task Area, select Reporting, and then Manage Queries.**

   The Manage Queries screen is displayed, showing all existing queries for all applications for which the user is provisioned as an Admin or Power user.

3. **From the Queries List, select the query to be deleted, and click the Delete button.**

   A confirmation message is displayed to confirm that you do want to delete the selected query.

4. **Click Yes.**

   The selected query is removed from the Manage Queries screen.

**Running Queries from the Stage Balancing Screen**

You can launch some predefined query integrations from the Stage Balancing screen. The launch data points are represented as hyperlinks in the stage balancing screen. The hyperlinks in the columns represent values that have been contributed from one stage to another.
Click the hyperlinks to immediately access an analysis capability to analyze the calculations and
determine whether areas may need to be repaired, and to explore details of any discrepancies or
missing information.

Data displayed in the query always opens the Reporting database.

To access queries through the Stage Balancing screen:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the
application for which queries have been created.

2. Deploy the database before running the query.
   It is not necessary to calculate the database before running the query; however, you should be aware that some results will be missing.

3. In an open model, from Task Areas, select Validate, and then Stage Balancing.
   The Stage Balancing screen is displayed.

4. Select a POV and Layer, and then click the Launch button
   The Stage Balancing report for the selected POV is displayed, with highlighted active links.
   By default, the following hyperlinks are available:
   ● Direct Input
   ● Idle
   ● Overdriven
   ● Unassigned Columns

   Additional columns may also contain hyperlinks. The hyperlinks in the columns represent values that have been contributed from one stage to another. If there is no contribution from one stage to another, the intersection is empty.
Click any hyperlink to view the results for that intersection in Essbase for the currently selected POV.

The results display the total for the default hyperlink (for example, CostReceivedPriorStage) for all intersections of the selected members. Because the results are from the Reporting databases, all values are automatically aggregated.
6 **Optional:** To modify the current POV, on the **POV_Linked_View** pane, click the down arrow beside any dimension listed for the current POV, and click the ellipsis (...) to open a Member Selector. Select any members that you want to change, and then click **Refresh** to activate the POV change.

7 Review the results of the query.

8 **Optional:** To view a specific intersection, use the Zoom commands on the Essbase tab to drill down or back up to a specific intersection.
Part III

Working with Detailed Profitability Applications

In Working with Detailed Profitability Applications:

- About Detailed Profitability and Cost Management Models and Scenarios
- Dimensions in Detailed Profitability and Cost Management Applications
- Managing Detailed Profitability Models
- Managing Detailed Profitability Allocations
- Calculating Detailed Profitability Models
- Validating Detailed Profitability Models
- Creating Detailed Profitability Reports
- Monitoring Detailed Profitability Job Status
A model is a representation of part or all of an organization. Profitability and Cost Management models enable you to accurately trace the processes and activities that contribute to costs and revenue within the organization.

A model is comprised of the following elements:

- **Stages**, which organize the Source and Destination allocations for revenue or expenses in the organization.

- **Dimensions**, which are data categories that are used to organize business data for retrieval and preservation of values. Within Detailed Profitability and Cost Management, the following types of dimensions are used:
  - *System dimensions*, such as the MeasuresDetailed allocation dimension.
  - *Measures dimensions* contain the members required to build, validate, and calculate a model, such as measures for revenue, and driver definitions.
  - *Business dimensions*, which describe the objects within each stage in the model, such as products, customers, regions, and so on. The dimensions and members are the foundation of the model.
  - *POV dimensions* identify a specific point of view or version of the model, such as year, scenario, period, and version. Version dimensions enable you to maintain multiple versions of a model. These versions can be used to create alternate, or what-if, scenarios of the model, or different perspectives.
  - *Alias dimension* is used to assign alternate names, descriptions, languages, or other items that help to define dimensions.
  - *Attribute dimensions* enable analysis based on the attributes or qualities of dimension members. Attributes describe characteristics of data, such as the size or color of products.

- **Drivers**, that determine how revenue or expense source values are calculated and allocated. Selected drivers are applied to the entire dimension, a portion of the hierarchy, a single member, or even a single intersection.

- **Assignment rules** that define source or destination member selections.
Assignments that map source data to the destination

Multi-source Calculation Rules that define allocations from multiple sources to multiple destinations.

Single-source Calculation Rules to execute individual assignments that act as exceptions to the Multi-source rules.

Calculation Rules are a super set of calculation artifacts, encapsulating sources, destinations, and drivers, that allow to use sources, destinations and drivers to create broad allocations, reserving individual assignments to create exceptions to these calculation rules.

Financial data, which is imported from user-defined relational databases.

The MeasuresDetailed, Business, Measure, and POV dimensions are created in Performance Management Architect, and deployed to the Profitability and Cost Management relational database. Stages, drivers, driver selections, assignments, and calculation rules are created in Profitability and Cost Management.

Some Performance Management Architect dimension types are available for use in Profitability and Cost Management models:

- Account
- Entity
- Version
- Time
- Country
- Currency

These Performance Management Architect dimension types correspond to Essbase dimension types and are used for creating dimensions that will be used in Profitability and Cost Management as Business dimensions or POV dimensions.

See the Oracle Hyperion Enterprise Performance Management Architect Administration Guide for information on using these dimension types.

Steps to Create Detailed Profitability Models

The creation of a Detailed Profitability and Cost Management model requires the following steps:

1. Have the Database Administrator create a model schema to hold the relational tables (Physical tables and views) and Lookup tables that hold supporting details before creating the model in Detailed Profitability and Cost Management.

3. Select the Model Data Schema that you are using for the Detailed Profitability application. See “Selecting the Detailed Model Data Schema” on page 217.

4. Using Model Data Registration, select the Source and Destination Measures dimensions and register the tables. Map the columns from the existing database tables to the application. You also join to associated lookup tables that provide additional supporting detail for the main tables. See “Registering Detailed Profitability Model Data” on page 219.

5. Create the source and destination model stages for the model. Select the registered table and assign the dimensions that apply to the stage. See “Managing Detailed Profitability Stages” on page 235.

6. Run model data registration model validations. See Chapter 17, “Validating Detailed Profitability Models”.

7. Create the Points of View (POVs) for the model via selecting members for each POV dimension, such as Year, Period, and Scenario. See “Working with Detailed Profitability Points of View” on page 240.

8. Create driver definitions to specify how to calculate data. See “Defining Detailed Profitability Drivers” on page 253.

9. The model is centered around Calculation Rules, a top-down approach. See “Working With Calculation Rules” on page 212.


11. **Optional:** To create assignment rule selections as exceptions to the multi source calculation rules:

    - Assign drivers to selected driver dimension members or intersections. See “Selecting Detailed Profitability Drivers” on page 265.
    - Create assignment rules and assignments to specify where you want the calculated values to be allocated.

    See these sections:
    - “Creating Assignment Rules” on page 276
    - “Working with Assignments in Detailed Profitability” on page 279
    - “Working with Detailed Profitability Assignment Rules” on page 276

12. Oracle recommends that you use the multi source calculation rules to create multiple assignments and driver selections. See “Adding Calculation Rules” on page 213.

    Optionally, you can use the Bulk Editor. See “Working with the Bulk Editor” on page 269.

13. **Optional:** Create single source assignment calculation rules to capture sets of assignment rule selections created as exceptions for execution, and to control when they execute. See “Working With Calculation Rules” on page 212.

14. Validate the model to ensure the model structure conforms to validation rules, such as completed assignments and no unused drivers. See Chapter 17, “Validating Detailed Profitability Models”.


15. Run calculations for the model to generate results. See Chapter 16, “Calculating Detailed Profitability Models”.


17. Run the Stage Balancing reports. Make any edits or corrections to the model or data, and then rerun the calculations, as required. See “Detailed Profitability Stage Balancing Report” on page 303.


**Detailed Profitability and Cost Management Workspace**

Accessed from EPM Workspace, the Profitability and Cost Management workspace contains two main areas:

- Use the Task Areas pane to navigate among the processes required to build, validate, and calculate the model and to report results.

- Use the Contents pane to view task information, enter or modify data, and perform tasks associated with the creation and maintenance of a model and its data.

The Profitability and Cost Management workspace includes these items:

1. The Performance Management Architect main menu at the top of the window displays the common EPM Workspace menu options (Navigate, File, View, and Tools), and the
Profitability and Cost Management main menu options, including Model, Allocations, Validate, Calculate, Job Status, and Help.

2. Application Name tab shows the name of the currently active application.

3. The Task Areas are used to select the tasks required to build, modify, validate model structure, and calculate models. You can also generate reports.

   **Note:** When you change a Task Area, the Point of View selection that exists in the current task is retained. This feature enables you to move from screen to screen without being required to reselect the POV. The POV selection state remains the same until it is changed by the user and the POV "refresh" icon is clicked.

4. The Information Bar offers shortcut instructions for the currently selected task.

5. The title bar displays the name of the window currently displayed in the contents pane.

6. The contents pane displays the screen for the currently selected task, such as Stages or Driver Definitions.
About Detailed Profitability Dimensions

Detailed Profitability enables you to use an existing relational database as the starting point for Detailed Profitability applications. You create a Detailed Profitability and Cost Management application in Performance Management Architect, and then deploy the Performance Management Architect application for use in Detailed Profitability models.

Caution! Oracle recommends that the Performance Management Architect and Detailed Profitability and Cost Management environment be created and maintained by experienced Database Administrators or System Administrators who have a good working knowledge of Performance Management Architect, Detailed Profitability and Cost Management, and the client’s data model.

The EPMA dimensions are created and maintained in Performance Management Architect, and must exist before they can be used in Detailed Profitability models. Through Performance Management Architect, the Profitability and Cost Management Administrator can also select existing dimensions and members from other products, or create new dimensions and members specifically for the model. The common data can be shared and updated between multiple products and applications, such as Planning. The dimensions and their members are available in the Detailed Profitability and Cost Management application after deployment.

The dimensions and members created in Performance Management Architect represent the structural elements of the business model. For general information about EPMA dimensions in Profitability and Cost Management, see “Common Profitability and Cost Management Dimensions” on page 26.

Caution! Oracle recommends that you do not add or delete dimensions after the modeling process has begun; however, if new dimensions or members are added or deleted, you must redeploy the application. Take special care when deleting dimensions or members in a Detailed Profitability application as the action may have altered the Model Data Registration and invalidated the model.
The following types of dimensions can be used to create Detailed Profitability applications:

- At least one Business dimension (required) (“Detailed Profitability Business Dimensions” on page 207)
- At least one EPMA POV dimension (required) (“Profitability and Cost Management POV Dimensions” on page 30)
- Attribute dimensions (optional) (“Profitability and Cost Management Attribute Dimensions” on page 31)
- Alias dimension (optional) (“Profitability and Cost Management Alias Dimensions” on page 31)
- MeasuresDetailed dimension (required) (“MeasuresDetailed Dimension” on page 208)
- Non-EPMA dimensions (“Detailed Profitability Non-EPMA Dimensions” on page 209)

Within Detailed Profitability, you must register the user-defined measures dimensions for each stage table. These user-defined measure dimensions are Performance Management Architect business dimensions. Only two measures dimensions are registered for each application:

- One Source measure for the registered Source stage table and its joined lookup tables
- One Destination measure for the registered Destination stage table and its joined lookup tables

You may use the same measure for both stages, or select two different measures. See “Registering Detailed Profitability Model Data” on page 219.

**Caution!** If the dimension members are not registered in Model Data Registration, the model validation fails.

For detailed information on creating, maintaining and working with Performance Management Architect dimensions, see the *Oracle Hyperion Enterprise Performance Management Architect Administrator’s Guide.*

For naming conventions for dimensions and members, see the *Oracle Hyperion Profitability and Cost Management Administrator’s Guide.*

See “Detailed Profitability Dimension Types” on page 207 for further information about specific dimension types.
**Detailed Profitability Dimension Types**

**Subtopics**

- Detailed Profitability Business Dimensions
- MeasuresDetailed Dimension
- Detailed Profitability Non-EPMA Dimensions

A dimension type is a dimension property that enables the use of predefined functionality in the application. The specific characteristics of the dimension type manage the behavior and functions of the dimension. Because Profitability and Cost Management, Performance Management Architect, and other EPM Workspace products may share certain dimension types, you can leverage the functionality of dimensions for different products, such as Oracle Hyperion Planning.

**Note:** When defining dimensional outlines, there are restricted characters that may not be used for naming. Oracle strongly suggests that you review the Essbase naming conventions described in the *Oracle Essbase Database Administrator’s Guide* to view the latest restrictions.

“Common Dimension Types” on page 29 describes dimension types used by all types of Profitability and Cost Management applications.

See the following sections for information about specific Detailed Profitability dimension types:

- “Detailed Profitability Business Dimensions” on page 207
- “MeasuresDetailed Dimension” on page 208
- “Detailed Profitability Non-EPMA Dimensions” on page 209

For detailed instructions on creating and maintaining the dimensions and members, see the *Oracle Hyperion Enterprise Performance Management Architect Administrator’s Guide*.

**Detailed Profitability Business Dimensions**

The Business dimensions in the model contain members that store information that is specifically related to the requirements of the business or organization, such as product types, sales regions, manufacturing processes, general ledger accounts, payroll, departments, activities, locations, customers, and products and so on. They may apply to one or more stages or models.

At least one Business dimension type must be defined when creating the Detailed Profitability application by the user.

One or two of the Business dimensions are used as Measures dimensions when defining the Source and Destination stages for the application. These dimensions are identified as the Source or Destination Measures dimensions during Model Data Registration. For Business dimension metadata requirements, see “Profitability and Cost Management Business Dimensions” on page 30.
MeasuresDetailed Dimension

The MeasuresDetailed dimension is a reserved dimension that contains the Allocation members required to support stage balancing and other verification activities, such as contributions, reconciliation, and so on. The MeasuresDetailed dimension does not contain Driver measures.

The MeasuresDetailed dimension is selected during the creation of the Detailed Profitability application in Performance Management Architect. It is a single selection, but contains the following measures:

<table>
<thead>
<tr>
<th>Dimension Member</th>
<th>Formula or Calculated Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unassigned</td>
<td>The result of Input + Received - Assigned - Idle + OverDriven</td>
</tr>
<tr>
<td>Assigned:</td>
<td></td>
</tr>
<tr>
<td>AssignedPostStage</td>
<td>The sum of all amounts assigned to the Destination stage</td>
</tr>
<tr>
<td>AssignedIntraStage</td>
<td>Not used for Detailed Profitability</td>
</tr>
<tr>
<td>OverDriven</td>
<td>Sum of all calculated OverDriven values</td>
</tr>
<tr>
<td>IdleCost</td>
<td>Input that is not assigned to the destination is the IdleCost value. Calculated results for IdleCost are assigned depending on the driver type:</td>
</tr>
<tr>
<td></td>
<td>For ratio-based drivers, if Allow Idle is selected, IdleCost is generated using the formula $\frac{\text{IdleDriverValue}}{\text{OverrideTotalDriverValue}}$.</td>
</tr>
<tr>
<td></td>
<td>For rate-based drivers, IdleCost is generated if the sum of allocates values is less than the source object's input value.</td>
</tr>
<tr>
<td>Received:</td>
<td></td>
</tr>
<tr>
<td>ReceivedPriorStage</td>
<td>Calculated value received from the Source stage</td>
</tr>
<tr>
<td>ReceivedIntraStage</td>
<td>Not used for Detailed Profitability</td>
</tr>
<tr>
<td>Input</td>
<td>External data that has been loaded to Input. Do not modify this amount.</td>
</tr>
</tbody>
</table>

You can view the MeasuresDetailed dimension in the Performance Management Architect Dimension Library, under System Balancing, and then AllocationMeasures.

**Caution!** Do not edit members in this dimension, because modifications may result in the loss of data or the corruption of the model.

To view MeasuresDetailed dimension members:

1. From EPM Workspace, select **Navigate**, then **Administer**, then **Dimension Library**.
2. In the application column, expand **System Balancing**, then **AllocationMeasures**, then **Unassigned** to view the MeasuresDetailed dimensions (Figure 8 on page 209):
3 Select each of the dimensions under Unassigned, and view the associated properties under the Properties column.

**Detailed Profitability Non-EPMA Dimensions**

The non-EPMA dimensions are constantly changing objects, such as IDs, dates, audit information, and so on, that are required for allocations. These dimensions are not managed by Performance Management Architect but exist in the selected Model Data Schema. These dimensions must also be mapped as a “Non-EPMA Dimension” during Model Data Registration so they are identified by the system.

You can access these columns within data filters in destination assignment rules.
About Managing Models

The Managing Models options are used to build the top-level structure of a model, and to control model preferences and connections:

- From the Model Summary, you can view system information and set model-level preferences.
- Under Model Data Registration, you map the existing tables to the application.
- From Stages, you assign the Business dimensions that apply to the Source and Destination stages of the model.
- Points of View (POVs) are used to create various versions of a model; for example, to hold budget versus actual figures, or to play scenarios to measure the impact of various changes on the bottom line.
- Import Staging Tables enable you to run import configurations to load model information, such as driver definitions, driver selections, assignments, and so on, to Detailed Profitability and Cost Management.

See these sections to manage the models:

- “Working With Calculation Rules” on page 212
- “Working with the Detailed Profitability Model Summary” on page 215
- “Registering Detailed Profitability Model Data” on page 219
- “Managing Detailed Profitability Stages” on page 235
- “Working with Detailed Profitability Points of View” on page 240
Working With Calculation Rules

Calculation Rules are a super set of calculation artifacts, encapsulating sources, destinations, and drivers. Calculation Rules allows you to use sources, destinations and drivers to create broad allocations, reserving individual assignments to create exceptions to these calculation rules.

The Calculation Rules information panel displays the basic information about the rules and is the control point for viewing information about the rule in the Calculation Rule Definition pane. It is also the control point for the definition and execution order of Calculation Rules.

The Calculation Rules screen consists of 3 areas:

- **POV Bar**—Displays the currently selected POV. Calculation Rules are unique to each POV. For more information on POVs, see “Working with Detailed Profitability Points of View” on page 240.

- **Calculation Rules Section**—Displays basic information about Calculation Rules. Its default sort (and primary usage) is by Calculation Rule Sequence number. You review the order of Calculation Rules in this pane but you can also sort and filter on the other columns to isolate rules for review purposes.

- **Rule Definition Section**—Displays the definition of the calculation rule highlighted on the Calculation Rules Pane.
Adding Calculation Rules

The Calculation Rule Definition Pane displays all the components that define the rule.

1. To add a rule:

   1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
   2. In an open model, from Task Areas, select Manage Allocations, and then Calculation Rules.
   3. In the Rule Definition section, click the New Calculation Rule and then enter the following fields:
      - In Name, enter a calculation rule name.
      - In Rule Type, select one of the following values:
        - Multi Source Assignment—Defines allocations from multiple sources to multiple destinations; must have 1-5 source assignment rules, 1-5 destination assignment rules and 1 driver.
        - Calculated Measures—Defines basic mathematical calculations to modify the destination measure values; must have up to 1-5 destination assignment rules and 1-5 drivers.
        - Single Source Assignment—Executes individual assignments that act as exceptions to the Multi-source rule; must have a First and Last Driver Sequence Priority or select all drivers checked.
      - In Sequence, enter a numeric value from 0-9999.
      - In Optional: Rule SQL Execution Mode,
      - Optional: In Description, enter a brief description of the rule.
      - Optional: Enter a Search Tag to facilitate later searches for the rule.
   4. The Model Default SQL Execution Mode is displayed. Use the default or override it in Rule SQL Execution Mode. See step 6 on page 219.
   5. Enter one of the following in the Driver section:
      - For Multi Source Assignment and Calculated Measures calculation rules:
        - Click Add driver and select the existent driver or click New driver to create new driver.
      - For Single Source Assignment calculation rule:
        - In First Driver Sequence Priority and Last Driver Sequence Priority enter an integer driver sequence priority value to provide a range of drivers
        - Check Select all drivers in order to cover all drivers
   6. For Multi Source Assignment, in the Source section:
      - For existent source assignment rule(s): Click Add source assignment rule and move existent source assignment rule(s) from the Available List to the Selected List.
      - For new source assignment rule(s): Click New source assignment rule and then select it.
   7. For Multi Source Assignment and Calculated Measures calculation rules, in the Destination section:
● For existent destination assignment rule(s): Click Add destination assignment rule and move existent destination assignment rule(s) from the Available List to the Selected List.

● For new destination assignment rule(s): Click New destination assignment rule and then select it.

**Note:** For Calculated Measures calculation rules destination assignment rules with Same as Source options should be filtered from the Available destination assignment rules.

8 Click Save. The rule definition displays in the Calculation Rules section.

### Modifying Calculation Rules

▶ To modify a calculation rule:

1 In Calculation Rules, select a rule.

2 In Rule Definition, modify the following fields:

   ● Name
   ● Rule Type
   ● Sequence
   ● Description
   ● Search Tag

3 In Driver:

   ● For Multi Source Assignment and Calculated Measures calculation rules:
     ○ Change the selected/add driver: Click Add driver to select an existent driver or click New driver to create a new driver and then select it
     ○ Modify selected driver: Click Edit driver
     ○ Remove a selected driver: Click Remove selected driver
   
   ● For Single Source Assignment calculation rule:
     ○ Modify First Driver Sequence Priority and Last Driver Sequence Priority driver sequence priority values
     ○ Change Select all drivers option state

4 In Source for Multi Source Assignment calculation rule:

   ● Change the selected/add source assignment rule: Click Add source assignment rule to select an existing source assignment rule or click New source assignment rule to create new source assignment rule and then select it
   
   ● Modify selected source assignment rule: Click Edit source assignment rule
   
   ● Remove selected source assignment rule: Click Remove selected source assignment rule

5 In Destination for Multi Source Assignment and Calculated Measures calculation rules:

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● Change the selected/add destination assignment rule: Click **Add destination assignment rule** to select an existing destination assignment rule or click **New destination assignment rule** to create a new destination assignment rule and then select it.

● Modify selected destination assignment rule: Click **Edit destination assignment rule**

● Remove selected destination assignment rule: Click **Remove selected destination assignment rule**

6 Click **Save calculation rule**.

### Deleting Calculation Rules

➢ To delete a calculation rule:

1 In **Calculation Rules** section, select a rule.

2 In the **Rule Definition** section, click **Delete calculation rule**.

3 Click Yes to affirm the deletion.

### Copying Calculation Rules

➢ To copy a calculation rule:

1 In **Calculation Rules** section, select a rule.

2 In the **Rule Definition** section, click **Duplicate calculation rule**.

   The Create Duplicate Calculation Rule dialog opens.

3 Enter a new calculation rule name.

4 Click OK.

### Working with the Detailed Profitability Model Summary

The Detailed Profitability Model Summary displays details of the system information for the selected application, and enables you to modify model level preferences.

See:

- “Detailed Model System Information Tab” on page 216
- “Selecting the Detailed Model Data Schema” on page 217
Detailed Model System Information Tab

The Detailed System Information tab provides detailed information for the selected model, including the relational database, Essbase connections, authorized users and associated system components.

Most of the system information is read-only.

To access the System Information tab:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the Detailed application that you want to view.

2. From Task Areas, select Manage Model, and then Model Summary. The System Information tab is displayed.

Table 13 System Information Tab

<table>
<thead>
<tr>
<th>Tab Area</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profitability RDB Information</td>
<td>Name of the relational database (RDB) server and the database in which the model data resides. The Schema version being used with the selected application is also displayed.</td>
</tr>
<tr>
<td>Essbase Information</td>
<td>Essbase Application and Database names for the three optional reporting cubes: Source Stage, Contribution, and Destination Stage. See “Managing Detailed Profitability Databases” on page 285. Enter or modify the names of the Essbase applications and databases for the optional reporting cubes.</td>
</tr>
<tr>
<td>Tab Area</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| User Information     | User ID for the user who is authorized to access the Profitability and Cost Management database, and all associated security roles for that user.  
**Note:** Ensure that this user has been granted access to the databases and the application. See the *Oracle Hyperion Profitability and Cost Management Administrator's Guide*. |
| System Components Information | Details for each component in the installation, as follows:  
- **System** displays the name of the EPM component.  
- **Cluster** displays the name of the server or cluster that is hosting that component.  
- **HTTP Port** displays the port being used by the component.  
- **HTTPS Port** displays the secure port being used by the component, if available.  
- **Version/Build** displays the version and build number for the listed component. |

You can sort the list by clicking the column header. The System and Host are sorted alphabetically, and the ports and version/build are sorted numerically.

**Selecting the Detailed Model Data Schema**

Use the Model Level Preferences tab to select the Model Data Schema that is to be associated with the application. You can customize the application to use the display preferences. The settings on the Model Level Preference tab apply to the entire model.

The tab also displays the type of Profitability and Cost Management application as Detailed.

To set model level preferences:

1. From EPM Workspace, select *Navigate*, then *Applications*, then *Profitability*, and then select the application that you want to view.
2. From Task Areas, select *Manage Model*, then *Model Summary*, and then select the *Model Level Preference* tab.
3 Under **Model Preferences** on the **Model Level Preference** tab, select the **Model Data Schema** to be used for this Detailed Profitability and Cost Management application.

4 Under **Essbase Connection Information**, enter Essbase connection information for the model. The required information is described in **Table 14**.

**Table 14  Essbase Connection Information**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cluster</td>
<td>Select the logical name of the Essbase server that provides the connection to the Essbase databases. This name may point to a clustered or non-clustered Essbase server.</td>
</tr>
</tbody>
</table>
| Connection Type | Select the type of connection:  
  - Embedded  
  - APS  
  See the *Oracle Hyperion Provider Services Administration Guide*. |
| APS URL   | Activated only if APS is selected as the Connection Type  
Select the URL for the APS that represents the Logical Web Application (LWA) of the server on which Provider Services is running.  
The available APS servers are registered in Shared Services registry during configuration.  
By default, the APS URL is `http://localhost:13080/aps/JAPI`. |

5 Under **Application Information**, **Application Type** and **Application Source** are displayed.  
**Application Type** is Detailed Allocation and **Application Source** is either EPMA or Native.
The application type and application source are selected when you create the application in Performance Management Architect or Alternate Application Manager, and cannot be changed.

6 For Oracle RDBMS, only: Under Calculation Control, select the Default SQL Execution Mode and enter the Default Number of Threads. The required information to set the calculation controls is described in Table 15. You can override these fields when you define the calculation rule definition. See step 4 on page 213.

Table 15 Calculation Control Information

<table>
<thead>
<tr>
<th>Default SQL Execution Mode</th>
<th>Description</th>
<th>Default Number of Threads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parallel Auto</td>
<td>Enables parallel SQL DML operations; Oracle determines the degree of parallelism. Caution! Oracle recommends that you use this setting only under the direction of a qualified Oracle database administrator.</td>
<td>This field is disabled in the User Interface.</td>
</tr>
<tr>
<td>Parallel User-specified</td>
<td>Enables parallel SQL DML operations; the degree of parallelism is specified in the Default Number of Threads field. Caution! Oracle recommends that you discuss this option prior to its use with a qualified Oracle database administrator.</td>
<td>The field, enabled in the User Interface, specifies the maximum degree of parallelism that Oracle uses for parallel DML operations. The optimal number of threads depends on the resources (processors, memory, storage, and IO throughput) available to the Oracle RDBMS.</td>
</tr>
<tr>
<td>Single-Threaded (default)</td>
<td>Parallel SQL DML operations are not enabled; Oracle executes SQL DML statements in single-threaded mode.</td>
<td>This field is disabled in the User Interface.</td>
</tr>
</tbody>
</table>

7 Click Save.

Registering Detailed Profitability Model Data

Detailed Profitability and Cost Management enables you to use the existing database tables as data sources in the application, rather than having to enter data to create a brand new application. To effectively use the existing tables, you must map them to the Detailed Profitability and Cost Management application through the Model Data Registration process. You can register a database table or view for use within the application, or edit or delete an existing registration.
Oracle recommends that Model Data Registration be completed by an experienced Database Administrator or System Administrator who is familiar with database concepts, and who has a working knowledge of Performance Management Architect and the client’s model data.

A Detailed Profitability model contains only two stages. The first step required in registering tables is to select a measure dimension for the Source and Destination stages. Only regular or generic Business dimensions can be used as the Source Measures Dimension or the Destination Measures Dimension for the application. You may use the same measures dimension for both the source and destination stages, or you may use a different measures dimension for each stage, depending on the structure of the business data.

- All registered source stage tables and their joined lookup tables use the Source measures dimension.
- All registered destination stage tables and their joined lookup tables use the Destination measures dimension.

You can also register views that have been created in the model data schema:

- Source Stage Tables and Lookup Tables for any view can be registered
- Destination Stage Tables can only register simple updatable views with no joins.

Although the tables referenced by the view may reside in any schema, you must issue the necessary database grants from each table that you want to register to the Profitability and Cost Management product schema. See the Oracle Hyperion Profitability and Cost Management Administrator’s Guide.

Using Model Data Registration, you identify the tables that will be assigned to the source and destination stages, and you map columns on those tables to the measures and dimensions that you defined for the application in Performance Management Architect. As you register each column, you assign it to one of these types:

- EPMA POV Dimension - managed through Performance Management Architect
- EPMA Dimension - managed through Performance Management Architect. These are the Business dimensions described in the previous section.
- Non-EPMA Dimension – dimensions that are not managed in Performance Management Architect, but that exist in the selected Model Data Schema.
- Measures - members of the selected Source and Destination Measures Dimensions
- Audit Columns:
  - Audit: Last Modified By
  - Audit: Last Modified Date

Performance Management Architect dimensions and POV dimensions can be mapped directly. The non-EPMA dimensions are dimensions such as IDs, dates, audit information, very large
dimensions, and so on, that are required for allocations, but are not managed by Performance Management Architect. They must also be mapped so they are identified by the system. You can access these columns within data filters in destination assignment rules.

Lookup tables can be joined to the source or destination stage tables to make a logical "stage business object" that is expanded to include measure and dimension columns or values that are not available directly on the main stage table. The Profitability and Cost Management Administrator should set up these join definitions in Model Data Registration.

See the following sections:

- “Registering Model Data” on page 221
- “Mapping Columns” on page 228
- “Joining Lookup Tables” on page 231
- “Reviewing Model Data Registration Summary” on page 234

**Registering Model Data**

The first step required in registering tables is to select measure dimensions for the Source and Destination stages. You may select the same measure for each stage, or select different measures for each stage.

**Caution!** After measures have been selected for both the Source and Destination, they cannot be changed as long as Model Data Registrations or Drivers exist. To select new values for the Source Stage Measure or the Destination Stage Measure, you must delete all registrations and drivers for the selected application.

If Measures contain different types of data (for example, numerical headcount versus monetary values), the Stage Balancing report may provide incorrect results because the different value types cannot be properly distinguished.

To obtain correct results and ensure the accuracy of the results on the Stage Balance view, locate the statistical measures as follows:

- For Vertical and Horizontal Source Tables, put all statistical measures on a joined lookup table.
- To locate Statistical measures directly on the source table (either Vertical or Horizontal), create a new dimension called “Source Measure Types”, and assign the “input” member to all non-statistical measure members.

See the following sections to create and manage:

- “Creating a New Model Data Registration” on page 222
- “Modifying an Existing Model Data Registration” on page 227
- “Copying an Existing Model Data Registration” on page 227
- “Deleting an Existing Model Data Registration” on page 228
Creating a New Model Data Registration

You must specify the external table that you want to use as the data source for the Detailed Profitability application, apply a new table name, and select the table type that you want to use.

External tables may be horizontally or vertically oriented. For Source Stage tables, you can specify the type or orientation you want for the table that you are registering. Destination and Lookup tables cannot be changed, and are presented horizontally only.

➢ To create a new Model Data Registration table:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2. From Task Areas, select Manage Model, and then Model Data Registration. The Model Data Registration screen is displayed.

3. On the Registrations tab, under Select Measures, select a measures dimension from the drop-down lists for the Source Measures Dimension and the Destination Measures Dimension.

You may select the same measures dimension for each stage, or select different measures dimensions for each stage.

- All registered source stage tables and their joined lookup tables use the Source measures dimension.
- All registered destination stage tables and their joined lookup tables use the Destination measures dimension.

Only Business dimensions can be used as the Source or Destination Measures dimension. You cannot use an Alias, Attribute or non-EPMA dimension.
Caution! After measures have been selected for both the Source and Destination stages, the measures cannot be changed as long as the Model Data Registrations or drivers exist.

4 On the Registration tab, click Add new table

Step 1: Select Table wizard is displayed.

5 From External Table, select the name of the existing table or view that you want to use as the data source. This list displays all external tables to which the user has Read or Write access.

Note: Register tables and columns that only use uppercase characters, numbers, and “_” or “$” in their names. Any tables or columns having invalid names will not appear for selection.

6 In Table Name, enter a user-friendly name for the registered table.

7 Optional: Enter a brief description of the purpose or contents of the table.

8 From Table Type, select the table type and orientation for the table to be registered:
   - Source Stage Table - Horizontally Oriented: Measures are stored in separate columns on the table, with one column for each distinct measure.
   - Source Stage Table - Vertically Oriented: Measures values are stored in separate rows in the table, with the measure value in one column, and the measure identification in the measures dimension column.
   - Destination Stage Table
   - Source Lookup Table
   - Destination Lookup Table
The available Lookup table types depend on the Measures selected on the Registration tab. If two separate measure dimensions are registered, then two Table Type choices are available (Source Lookup Table and Destination Lookup Table).

If the same measures dimensions are selected, then only one Table Type choice is available (Lookup Table).

9 Click Next.

Step 2: Select Columns screen is displayed.

10 Under Available Columns, select the columns from the table that you are registering to use in the final table, and then click the Add arrows to move the selections to Selected Columns.

You can select multiple columns at one time from the list:

- To select a range of columns, press Shift and select the first and last columns in the range.
- To select multiple random columns, press Ctrl and select individual columns from the list.

Note: Register tables and columns that only use uppercase characters, numbers, and “_” or “$” in their names. Any tables or columns having invalid names will not appear for selection.

11 Click Next.

Step 3: Map Columns screen is displayed, listing details of the selected table.
12 **Under Select Column Types**, map the **Selected Columns** to the available column types:

- EPMA POV Dimension
- EPMA Dimension
- Non-EPMA Dimension
- Measure
- Audit: Last Modified By
- Audit: Last Modified Date

13 **Click Next.**

Step 4: Rename Non-EPMA Columns screen is displayed, showing any Non-EPMA and Audit dimensions, such as IDs, dates, audit, and so on. If you do not have any Non-EPMA or Audit dimensions, the list is blank.
14 Optional: Enter the new user-friendly name to be associated with the previously selected Non-EPMA and Audit dimensions under Column Name. These names make the dimensions easier to use.

15 Click Next.

Step 5: Map and Rename EPMA Columns screen is displayed.

16 Under Dimension/POV, map all columns set as an EPMA POV or EPMA dimension in step 12 to existing Performance Management Architect dimensions. The selected Dimension/POV is automatically displayed under Column Name. You can change this value, if required.

17 Click Next.

Step 6: Map and Rename Measure Columns screen is displayed.

18 Under Measure, for Measure type columns, select the actual Measure member for each row. The selected Measure is automatically displayed under Column Name. You can change this value, if required.
19 Click Finish.

The table is registered, and displayed on the list of registered tables on the Registration tab.

**Modifying an Existing Model Data Registration**

To modify an existing Model Data Registration table:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. From Task Areas, select Manage Model, and then Model Data Registration.
3. On the Registration tab, select the table that you want to modify, and then click Edit Table.
4. Optional: On the Select Table screen, modify information about the table, including the Table Name and Description, and then click Next.

**Note:** The External Table selection and Table Type cannot be modified.

5. Optional: On the Select Columns screen, modify the column selection, using the Add arrows and Remove arrows to move the selections to Selected Columns.

You can select multiple columns at one time from the list:

- To select a range of columns, press Shift and select the first and last columns in the range.
- To select multiple random columns, press Ctrl and select individual columns from the list.

6. Click Next.

7. Optional: On the Map Columns screen, modify the mapping of the newly selected columns to the available column types, and then click Next.

   Step 4: Rename Non-EPMA Columns screen is displayed, showing any non-EPMA dimensions. If you do not have any non-EPMA dimensions, none are displayed.

8. Optional: Modify any newly selected non-EPMA columns, and then click Next.

9. Optional: On the Map and Rename EPMA Columns screen, for columns managed by Performance Management Architect, modify any Dimensions or POVs under Dimension/POV or the Column Name, and then click Next.

10. Optional: On the Map and Rename Measure Columns screen, under Measure, for Measure type columns, modify the actual Measure member for any row, and then click Finish.

Modifications to the table are registered.

**Copying an Existing Model Data Registration**

To copy an existing Model Data Registration table to create a new model data registration:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2 From Task Areas, select **Manage Model**, and then **Model Data Registration**.

3 On the **Registration** tab, select the table that you want to copy, and then click **Duplicate Table**.

4 On the Create a Duplicate Table dialog box, enter a name for the new table, and then click **OK**.

### Deleting an Existing Model Data Registration

To delete an existing Model Data Registration table:

1 From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application that you want to view.

2 From Task Areas, select **Manage Model**, and then **Model Data Registration**.

3 On the **Registration** tab, select the table that you want to delete, and then click **Delete Table**.

4 After the confirmation dialog “You are about to delete selected Table. Do you want to proceed?” is displayed, confirm the deletion.

The Model Data Registration information for the selected table is deleted.

### Mapping Columns

The Column Mapping tab is used to map the registered table columns to their respective dimensions in the selected table.

See the following sections:
To view column mappings:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2. From Task Areas, select Manage Model, and then Model Data Registration.

3. Select the Column Mapping tab.

4. Under Select Table, select the stage table for which you want to view the column mapping.

The associated System Table and Table Type are displayed.

5. Review the column mappings:
   - **Column Display Name** displays the assigned display name for the column
   - **System Table Column** displays the name of the column for the selected System Table
   - **Column Type** displays the type to which the column has been mapped:
     - EPMA POV Dimension
     - EPMA Dimension
     - Non-EPMA Dimension
     - Measure
EPMA Mapping displays the EPMA dimensions or EPMA dimension members to which the column has been mapped.

Modifying Column Mappings

To modify column mappings:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. From Task Areas, select Manage Model, and then Model Data Registration.
3. Select the Column Mapping tab.
4. For Select Table, select the stage table for which you want to modify the column mapping.
5. Click Edit Column Mapping.
   The Rename non-EPMA columns dialog box is displayed.
6. Under Column Name, modify the column names for each non-EPMA dimension to be changed, and then click Next. If the application does not contain non-EPMA dimensions, this screen will be blank.
   The Map and Rename EPMA Columns dialog box is displayed.
7. Under Column Name, modify each EPMA column name that you want to change.
   Under Dimension/POV you can modify the selected dimension, if required, and then click Next.
   The Map and Rename Measure Columns dialog box is displayed.
8. Under Measure, select the actual member to be used for each column, and then click Finish.
   All column modifications are applied.

Deleting Column Mappings

To delete column mappings:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. From Task Areas, select Manage Model, and then Model Data Registration.
3. Select the Column Mapping tab.
4. Under Select Table, select the stage table for which you want to delete the column mapping.
   The associated System Table and Table Type are displayed.
5. Under Column Display Name, select the name of the column that contains the mapping that you want to delete, and then click Delete Column Mapping.
The mapping for the selected column is deleted.

Joining Lookup Tables

Subtopics

- Joining Tables to a Lookup Table
- Editing Lookup Table Joins
- Removing Lookup Table Joins

There may be instances when a Stage Table designated as a Source table does not provide enough supporting detail within the table. Lookup tables are existing client tables that can be joined to a Source or Destination table to extend the contents of that stage table, providing additional information or data.

A table can be joined to a stage table if it uses the same list of measures, same measure dimension, as the stage table. For example, a table can be a Source Lookup Table if one or more columns are mapped to a member value from the Source Measure Dimension.

Each lookup table adds to the calculation and processing times for the selected stage table. The more lookup tables that are involved in the calculation, the greater the processing time. Not all lookup tables need to be involved in a calculation. For example, you may have 10 tables joined to the stage table, but if a driver is using only three of these tables, the processing impact involves those three tables only.

Joining Tables to a Lookup Table

To join tables to a lookup table:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. From Task Areas, select Manage Model, and then Model Data Registration.
3. Select the Table Joins tab.
4. From Stage Table, select the stage table to which you want to join the lookup table.

A list of tables that are currently joined to the stage table are displayed.
5 Click Create a Table Join.

6 On the Select Lookup Table wizard, under Available Lookup Tables, from the Lookup Table drop-down list, select the lookup table that you want to join to the selected stage table, and then click Next.
On the Join Lookup Table to Stage Table wizard, under Join Details, click Add a new condition to add another table join to the stage table.

From the Stage Table and Columns, select a stage table column, and then select a lookup table column under Lookup Table and Columns.

Optional: Under Join Details, select some join condition and click Remove the condition to remove the selected condition.

Click Finish.

Editing Lookup Table Joins

To edit table joins:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. From Task Areas, select Manage Model, and then Model Data Registration.
3. Select the Table Joins tab.
4. From Stage Table, select the stage table to which you want to join the lookup table.

A list of tables that are currently joined to the stage table are displayed.

5. Click Edit a Table Join .
6. On the Select Lookup Table wizard, review the selected lookup table, and then click Next.

Optional: On the Join Lookup Table to Stage Table wizard, under Join Details, modify the selections for the Stage Table and Columns or the associated Lookup Table and Columns, as required.

8. Click Finish.
Removing Lookup Table Joins

To remove joined tables:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. From Task Areas, select Manage Model, and then Model Data Registration.
3. Select the Table Joins tab.
4. From Stage Table, select the stage table from which you want to remove the lookup table association.
   
   A list of tables that are currently joined to the stage table are displayed.
5. Under Joined Lookup Tables, select the joined criteria that you want to remove from the stage table.
6. Click Delete a Table Join to delete the selected joined criteria from the stage table.
   
   The joined criteria is removed from the list.

Reviewing Model Data Registration Summary

Use the Summary Tab of the Model Data Registration screen to view the details for a complete Source or Destination Stage Table, including the associated lookup tables and mapping.

To view Stage Table Summary:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. From Task Areas, select Manage Model, and then Model Data Registration.
3. Select the Summary tab.
4 Under Stage Table, select the Stage table for which you want to view details from the list of registered Stage tables.

The screen is populated with details for the selected table.

5 Review details for the selected table on the Summary tab:
   - **Column Display Name** displays the assigned name for the column
   - **Source and Joined Table Display Name** displays the name of the table assigned to the source and its associated joined tables
   - **Column Usage** displays the type to which the column has been mapped:
     - EPMA POV Dimension
     - EPMA Dimension
     - Non-EPMA Dimension
     - Measure
     - Audit: Last Modified By
     - Audit: Last Modified Date
   - **EPMA Mapping** displays the EPMA dimensions or members to which the column has been mapped.

Managing Detailed Profitability Stages

In Detailed Profitability and Cost Management, there are only two stages in the model:

- The Source Stage must be Performance Management Architect-managed dimensions, may contain up to five managed dimensions, and may be sourced from a vertically or horizontally-oriented Source Stage Table from the Model Data Registration. One of the five source stage dimensions must be the Source Measures Dimension that you identified at the beginning of Table Registration.

- The Destination Stage may contain up to 25 Profitability and Cost Management-managed and regular business dimensions, but must be a horizontally-oriented Destination Stage Table from Model Data Registration.

**Note:** Non-EPMA managed dimensions cannot be defined as stage dimensions. They can be used by the destination stage, but only in destination stage assignment rule data filters.

When you create a new application in Performance Management Architect and deploy it to Profitability and Cost Management, you use the Stages screen to create the Source stage (Stage 1) and the Destination stage (Stage 2). In Detailed Profitability applications, the source and destination stages have different characteristics, requirements and validations. Unlike Standard Profitability applications, these stages cannot serve as both source and destinations.

After the two stages are set up, you cannot add a new stage after model data registration, unless one stage is deleted. See “Deleting Detailed Profitability Model Stages” on page 240.
See the following procedures:

- “Adding Detailed Profitability Model Stages” on page 236
- “Modifying Detailed Profitability Model Stages” on page 238
- “Deleting Detailed Profitability Model Stages” on page 240

**Adding Detailed Profitability Model Stages**

Only two stages may exist in a Detailed Profitability model. This option is not available if both stages already exist.

To add model stages:

1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application that you want to view.
2. From **Task Areas**, select **Manage Model**, and then **Stages**.

The Stages window provides the following information about the selected stage:

- **Stage** displays the stage order. The stage order determines whether the stage is the source or the destination.
- **Prefix** is the stage prefix that was entered during stage creation. It could indicate whether the stage is the Source (SRC) or Destination (DST) by its value.

**Note:** The prefixes do not impact the identification or source or destination stages. Stage 1 is always the source stage, and Stage 2 is always the destination stage.
- **Name** shows the assigned name of the stage, and usually identifies the business function or process of the stage, such as Customer Activity Cost or Customer Sales Data.
- **Table Name** is the assigned display name for the registered table.
- **Measures Dimension** displays the Measures dimension selected for the Stage during Model Data Registration.
- **Dimensions** shows the dimensions included in the stage.
- **Driver** dimension selected for the stage is indicated by a check mark.

3. **If two stages do not already exist, click Add Stage.**

The Stage dialog box is displayed.

4. **Enter the following details for the stage:**
   - Enter the assigned **Name** for the stage. The name usually identifies the business function or process of the stage, such as Customer Activity Cost or Customer Sales Data.
   - Select the **Prefix** to help to indicate, for example, whether the stage is the Source (SRC) or Destination (DST).
   - **Optional:** Enter a brief description of the purpose or contents of the stage.
   - Select the **Table Name** that was assigned during Model Data Registration.
   - Under **Measures Dimension**, verify the Measures dimension associated with the selected stage during Model Data Registration.

5. **Under Stage Dimensions, click Add to add a dimension for the stage.**

   **Note:** When adding dimensions for the selected stage, you must also add the Source Measures Dimension that you defined in Model Data Registration as one of the dimensions for the Source Stage. Do NOT include the Destination Measures Dimension in the definition of the Destination stage.
Repeat step 5 to add each dimension for the selected stage. You can add up to 5 dimensions for a Source Stage and up to 25 dimensions for a Destination Stage.

Optional: Under Order, select a dimension to enable the Up and Down arrows to move the dimension up or down into the correct sequence. Move all dimensions using the arrows.

Under Driver, select the dimension which is the driver for the selected stage. The designated driver is indicated with a check mark.

Click OK.

Modifying Detailed Profitability Model Stages

Model stages can be easily modified.

To modify model stages:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2. From Task Areas, select Manage Model, and then Stages.

The Stages window provides the following information about the selected stage:

- **Stage** displays the order of the two stages.
- **Prefix** indicates whether the stage is the Source (SRC) or Destination (DST).
- **Name** shows the name of the stage and usually identifies the business function or process of the stage, such as General Ledger or Operating Activities.
- **Table Name** is the assigned display name for the MDR table.
- **Measures Dimension** displays the Measures dimension selected for the Stage during Model Data Registration.
- **Dimensions** shows the dimensions included in the stage.
- **Driver** dimension for the stage is indicated by a checkmark.

3. **Select the stage to be modified, and click Edit Stage.**

   The Stage dialog box is displayed.

4. **Modify any or all of these items:**
   - Name
   - Description
   - Prefix
   - Table Name

5. **Optional:** To add dimensions, under **Stage Dimensions**, click **Add** to add a new row, and select the dimension to be added to the stage. Repeat to add additional dimensions.

   **Note:** When adding dimensions for the selected stage, you must also add the defined Source Measures Dimension as one of the dimensions for the Source Stage. Do NOT include the Destination Measures Dimension in the definition of the Destination stage.

6. **Optional:** Under **Stage Dimensions**, select a Dimension, and click **Delete** to remove that dimension from the stage. Repeat to remove additional dimensions.

7. **Optional:** Under **Order**, select a dimension to enable the Up and Down arrows to move the dimension up or down into the correct sequence. Move all dimensions using the arrows.

8. **Under Driver**, select the dimension which is the driver for the selected stage. The designated driver is indicated with a check mark.
Deleting Detailed Profitability Model Stages

In Detailed Profitability, the source stage and the destination stage contain different characteristics, requirements and validations, such as the number of dimensions allowed, so they cannot be used interchangeably.

If both stages exist, you cannot delete Stage 1 first because Stage 2 would then become Stage 1, changing it from a destination stage to a source stage which could potentially violate restrictions imposed on source stages.

Caution! Any driver selections, driver selection exceptions, calculation rules, and assignment rule selections pertaining to the selected stages are also deleted.

After deleting the required stages, you can add new stages as outlined in “Adding Detailed Profitability Model Stages” on page 236.

To delete model stages:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. In an open model, from Task Areas, select Manage Model, then Stages.
3. On the Stages screen, select Stage 2 (Destination Stage) to be deleted.
4. Click Delete stage.
   A message requests that you confirm the deletion.
5. Optional: On the Stages screen, select Stage 1 (Source Stage) to be deleted.
6. Click Delete stage.
   A message requests that you confirm the deletion.

Working with Detailed Profitability Points of View

The Point of View (POV) for a model provides a specific view of the model information for a selected time period, such as a year, period, and scenario.

The names and structure of POV dimensions for the organization can be completely customized. The first step for almost every activity in Profitability and Cost Management is the selection of a POV.

At least one POV dimension is required for a model. The user defines the POV dimensions, and the names of those dimensions. Calculations are performed using the specific data, driver selections and assignments of that POV for different months or situations.
A typical POV includes the Year, Period, and Scenario. You must have at least one POV dimension, and you can have up to four. Members for POV dimensions are user-defined, and can provide a rich array of POV combinations for modeling and what-if analysis.

A model can only be edited if the POV is set to “Draft” status. You can modify the POV to reflect new drivers, criteria, or members, enabling you to create alternative scenarios. By comparing these scenarios, you can evaluate how changes affect the processes or bottom line.

You can also create POV versions that enable you to maintain separate versions of the same POV to monitor the impact of changes to the model, or track different versions of the same model.

See these sections for detailed information about POVs:

- “Detailed Profitability POV Dimensions” on page 241
- “Detailed Profitability POV Status” on page 241
- “Detailed Profitability Version Dimension” on page 241
- “Managing Detailed Profitability POVs” on page 242

**Detailed Profitability POV Dimensions**

A Point of View (POV) dimension is used to present a specific version or perspective of the model. Each model requires at least one dimension to be designated as a POV dimension. The POV dimensions can be whatever is required for the particular model. The following list represents some common sample POV dimensions:

- **Period** — Because a model can be based on any unit of time (quarters, months, annual, years, and so on), you can analyze strategies and changes over time, and monitor inventory or depreciation.
- **Year** — Identifies the calendar year in which the data has been gathered
- **Scenario** — Identifies a version of the model for a specific time period and set of conditions

**Detailed Profitability POV Status**

A status must be set for the POV to show the current availability of the model for editing or viewing.

The POV status must be set to one of the following states:

- **Draft** — Build or edit the model, and generate dynamic reports.
- **Published** — View the model, and generate dynamic reports. You cannot edit the model.
- **Archived** — View the model and generate dynamic reports. You cannot edit the model.

**Detailed Profitability Version Dimension**

Using a specific POV, you can create a POV version that enables you to maintain separate versions of the same POV to monitor the impact of changes to the model, or track different versions of the same model.
Use the Version dimension for the following tasks:

- Create multiple iterations of a model, with slightly different versions
- Model possible outcomes based on assumptions, or “what-if” scenarios to determine best or worst case scenarios
- Facilitate target setting

By modifying different elements within the Version dimension, you can examine results of the changes, without modifying the original model.

**Managing Detailed Profitability POVs**

A POV displays a particular version of a model for a selected snapshot, such as year, period, scenario, and status.

When a new POV is added, the status is automatically set to “Draft” so the POV can be edited. At least one POV dimension is required for a model; however, you can create multiple POV combinations for a single model. A selected POV can be saved as an EPM Workspace user preference. You can also copy a POV, to begin a model for a new reporting period, or a different scenario. See “Copying POVs” on page 245.

The POV dimension defined for the application determines the potential POVs available for a model, but all POVs are not automatically available for assignment or data input. You cannot assign drivers or load data for a POV until it has been added to the model.

The following model elements must be specified for each POV combination:

- Driver selections
- Assignments and Calculation Rules

Use the following procedures to work with POVs:

- “Adding POVs” on page 242
- “Modifying the POV Status” on page 244
- “Copying POVs” on page 245
- “Deleting POVs and All Artifacts” on page 246
- “Deleting Selected Objects from POVs” on page 247

**Adding POVs**

You add a POV to view the information and calculations for a model for a selected snapshot of the model, such as a year, period, scenario and status.

The values of the parameters available for a model are set in the Performance Management Architect application.
**Note:** You cannot access a POV from other task windows until the POV has been added in POV Management.

To add POVs:

1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application that you want to view.
2. In an open model, from **Task Areas**, select **Manage Model**, then **POV Manager**.

The Status tab of the POV Manager screen is displayed. All existing POVs are listed.

3. Click **Add New POV**.

The Add Point of View dialog box is displayed.

4. Select the parameters in the model to identify the new POV (such as Year, Period or Scenario).
Because this is a new POV, the Status is read-only, and set automatically to Draft to enable you to build and edit the model.

5  **Click OK.**

The POV is added to the list.

**Modifying the POV Status**

The POV Status displays the availability of the model for editing or viewing. A model is available for editing only when the POV Status is set to Draft. When the model is finalized, change the POV status to ensure it cannot be modified.

**Note:** Only the POV status can be changed. To modify any other parameters, you must create a new POV.

The POV status can be set to one of these values:

- Draft — build or edit the model, and generate dynamic reports.
- Published — view the model or generate dynamic reports.
- Archived — view the model or generate dynamic reports.

You can change the status back to Draft at any time, in order to edit the model.

**Note:** If you modify the POV, only the status is changed; however you are no longer be able to calculate the model if the status has been set to “Published” or “Archived.”

To change the POV status:

1  **From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.**

2  **In an open model, from Task Areas, select Manage Model, then POV Manager.**

   The Status tab of the POV Manager screen is displayed. All existing POVs are listed.

3  **Select the POV that is to be modified, then click Edit POV .**

4  **Under Status, select the new status:**

   - Draft
   - Published
   - Archived

   Only the POV status can be changed. To modify any other parameters, you must create a new POV.

5  **Click OK.**
Copying POVs

You can copy a POV to provide a starting point for a new model or scenario, or to play what-if scenarios with an existing model.

For example, you can begin a period by copying driver selections and assignments from the previous period, or you can create seed data for a forecast scenario by copying data from an actual scenario.

To copy the POV, you must have a Source POV, which contains the information to be copied, and a Target POV, which is destination to which the data will be copied. You can copy information only to POVs with the status of “Draft” that are listed on the Status tab of the Manage POVs screen.

To copy POVs:

1. **Optional**: If required, create a POV on the Status tab of POV Management to provide the target POV for the copy operation. See “Adding POVs” on page 242.

2. In an open model, from Task Areas, select **Manage Model**, then **POV Manager**. The Status tab of the POV Manager window is displayed. All existing POVs are listed.

3. From POV Manager, select the **Copy** tab.

4. Under **Source POV**, select the POV that is to be copied.

   **Note**: The Status for the Source is automatically set to the status assigned to this POV, and cannot be modified on this screen.

5. Under **Target POV**, select the POV that is to be the destination for the copied POV.

   **Caution!** The Target POV must exist as a valid POV with the Status of “Draft” on the Status tab of the POV Manager screen, or the copy operation will not start.
6 Under **Copy Configuration**, select the elements of the POV that are to be copied:

Under **Model**, select **Driver Selections, Assignments, Calculation Rules**, or all. These options enable you to control the information that is required for the new POV.

7 **Perform one of the following tasks:**

- Click **Run Later** to schedule a date and time to copy the POV. See “Scheduling Taskflows” on page 172

  **Note:** If this option is not selected when the task is created, you will not be able to schedule the task.

- Click **Run Now** to copy the POV immediately.

  A confirmation message indicates that the job has started and identifies the assigned taskflow ID. Select **Jobs Status**, and then **Search Task** to monitor the status. See “Job Library” on page 311.

  **Caution!** Depending on the size and complexity of the model, this operation may take a significant amount of time.

8 When the copy is complete, review the copied information under the target POV.

**Deleting POVs and All Artifacts**

You can delete an entire POV from the Status tab on the POV Manager screen. When a POV is deleted, all objects within that POV are deleted, including the associated assignments and driver selections.

If you only want to delete selected objects from a POV, without deleting the entire POV, see “Deleting Selected Objects from POVs” on page 247.

**Caution!** Oracle recommends that, before deleting a POV, you create a backup directory of the databases in EPM Workspace. Contact the administrator for assistance, if required.

➢ To delete POVs and their associated assignments and driver selections:

1 **Ensure that no other users require the POV and its contents.**

2 From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application that you want to view.

3 **In an open model, from Task Areas, select Manage Model, then POV Manager.**

   The POV Manager screen is displayed.

4 **Select the Status tab.**
5 Under Available POVs, select the POV you want to delete.

6 Click Delete POV.

A confirmation message is displayed.

Caution! When a POV is deleted, all objects within that POV are deleted.

7 Click Yes to confirm the deletion.

The POV is removed from the list and is no longer available for selection.

Deleting Selected Objects from POVs

Using the Delete tab of the POV Manager screen, you can delete selected objects from a POV, without deleting the entire POV.

To delete an entire POV, including its associated assignments and driver selections, see “Deleting POVs and All Artifacts” on page 246.

Caution! Oracle recommends that, before deleting a POV, you create a backup directory of the databases in EPM Workspace. Contact the administrator for assistance, if required.

➢ To delete selected objects from a POV:

1 Ensure that no other users require the POV and its contents.
2 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

3 In an open model, from Task Areas, select Manage Model, then POV Manager.

The POV Manager screen is displayed.

4 Select the Delete tab.

5 Under POV, select the POV that contains the artifacts that you want to delete.

6 Under Stages, select the stage that contains the artifacts to be deleted.

7 Under Delete Configuration, select the elements of the configuration that are to be deleted:
   - **Driver Selections** (Rules or Exceptions or both)
   - **Assignments** (Assignment Rules Selections or Calculation Rules or both).

8 Click Delete.

A confirmation message is displayed.

9 Click OK to confirm the deletion.

The selected records are removed. See hpcm.log to view a record of the operation, including the selections and the number of records expunged.

---

## Importing Detailed Profitability Staging Tables

You can enter data and model information directly into Profitability and Cost Management; however, the data entry may be very time-consuming. To facilitate the population of the application, you can import model definitions, such as POVs, drivers, driver selections, assignment rule selections, and calculation rules, directly into Profitability and Cost Management using a set of import staging tables and import configurations.
Note: Dimensions, costs and driver data cannot be imported from staging tables.

Model data is imported from several sources:

- Model structure and metadata (measures and dimensions) are imported from Performance Management Architect through EPM Workspace.
- Model definition data is imported from staging tables.
- Model data and applications can be imported using Lifecycle Management. See the Oracle Hyperion Enterprise Performance Management System Lifecycle Management Guide.
- Model data is imported using Oracle Enterprise Performance Management System

Caution! Oracle recommends that, before importing data or artifacts, you create a backup directory of the databases in EPM Workspace. Contact the administrator for assistance.

In order to import staging tables, you must create an import configuration to specify which tables are to be imported. The configuration, which can be saved, can be used multiple times to import the same set of data. When importing the complete model, there are table dependencies that apply; however, these dependencies are not applicable if you are only importing sections of the model.

For detailed instructions on creating staging tables and import configurations, see the Oracle Hyperion Profitability and Cost Management Administrator’s Guide.
About Detailed Profitability Allocations

In Detailed Profitability and Cost Management, allocations control how values are distributed throughout the model to specified accounts or elements. A driver is used to determine how the funds for each allocation are calculated. The calculated results are assigned from the source to the destination, as the funds flow through the model.

See these sections for information about managing allocations:

- “Defining Drivers and Formulas for Detailed Profitability ” on page 251
- “Defining Detailed Profitability Drivers” on page 253
- “Working with Detailed Profitability Drivers” on page 264
- “Working with the Bulk Editor” on page 269
- “Working with Detailed Profitability Assignment Rules” on page 276
- “Working with Assignments in Detailed Profitability ” on page 279
- “Working With Calculation Rules” on page 212

Defining Drivers and Formulas for Detailed Profitability

Drivers are used to control allocations between objects in a Detailed Profitability and Cost Management model. Drivers work with Assignments, source data, and driver data to build a complete set of instructions and data to control system calculations.

While assignments direct the data from a source to a destination, the drivers that are associated with these assignments are used to calculate the value of the allocations. The drivers provide the formulas for allocating source values to destinations. Driver measures and formulas promote
model flexibility by enabling you to use variables to represent model elements, and mathematical operands to calculate driver values. Drivers are not directly associated with stages.

**Note:** If a driver used in the allocation is modified or deleted, you must recalculate the model.

For each driver required in the model, perform these tasks:

- Determine which types of drivers you require for the application. Driver Operation Type defines the type of the driver as rate-base, ratio-based, or as calculated measure. See “Defining Detailed Profitability Drivers” on page 253.
- Generate driver formulas based on SQL-syntax. See “Driver Formulas” on page 252.
- If you want to run drivers in a specific sequence, see “Driver Priority Sequence” on page 253.
- Define the new driver and the associated formula. See “Defining Detailed Profitability Drivers” on page 253.
- Associate the driver with the selected measure. See “Working with Detailed Profitability Drivers” on page 264.

**Driver Formulas**

A driver formula can include any combination of variables, functions, and numeric values that are used to calculate the results that will be posted to the Destination. Formulas must be mathematically and syntactically correct according to SQL syntax; furthermore, the measures used must have been registered properly in Model Data Registration as they are validated based on those criteria.

Each driver type contains a driver formula that is created on the Driver Definition dialog box, using the keyboard and the Insert button. The formula created to calculate the driver value may be simple, or it may be a complex formula that includes conditional statements.

On the Define Driver dialog box, use the keyboard and Insert button to build the SQL formula to calculate the values.

The insert button supports adding either source measures or destination measures to the driver formula. The driver formula may be as simple as `destination.headcount`, or it may be a complex combination of source and destination measures, mathematical, and other functions supported by SQL.

You can use functions (operands) between elements to control the formula calculation, including simple operands such as the following examples:

- Add (+)
- Subtract (-)
- Multiply (*)
- Divide (/)
As an example, the Calculation formula for a Calculated Measure operation type may be written as follows:

```
(Destination."MATERIALS_EXPENSE"+Destination."SALES_EXPENSE"+Destination."SERVICE_EXPENSE"
+Destination."GENERAL_ADMIN_EXPENSE"+Destination."SHIPPING_EXPENSE")
```

Refer to MS SQL documentation for specific commands and instructions.

**Driver Priority Sequence**

In some business models, a driver may use one or more calculated measures in the formula. Dependencies may require the allocations to be calculated in a controlled sequence. Priority sequence drivers enable you to define which allocations should be calculated first.

For example, by setting the driver priority, you ensure that Source A using Driver A is calculated before Source A using Driver B.

When defining the driver, enter the Sequence Priority on the Define Drivers dialog box. The source associated with drivers that have a lower priority are resolved before a source associated with a driver that has a higher priority. The default value is set to 100, but this value can be changed. The highest priority is 1. The sequence priority must be entered as a positive integer. Sources associated with drivers that have the same sequence priority are processed in no defined order.

If you change the sequence priority for a driver, you are potentially changing the calculation order, so you should recalculate the model.

**Defining Detailed Profitability Drivers**

For detailed instructions on working with drivers, see these procedures:

- “Working with Ratio-Based Drivers” on page 253
- “Working with Rate-Based Drivers” on page 257
- “Working with Calculated Measure Drivers” on page 261

**Working with Ratio-Based Drivers**

The ratio-based drivers enable you to perform allocations from the source to the destination stage using the following formula:

```
Driver Value/Sum of Driver Values ratio
```

The result of the driver formula is calculated for each source/destination combination, and allocated the source value to the destination as a ratio.
See the following procedures:

- “Defining Ratio-Based Drivers” on page 254
- “Modifying Ratio-Based Drivers” on page 256
- “Deleting Ratio-Based Drivers” on page 257

**Defining Ratio-Based Drivers**

1. To define ratio-based drivers:
   1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application for which you want to create the driver.
   2. From **Task Areas**, select **Manage Allocations**, and then **Driver Definitions**.

2. In **Driver Definitions**, click **Add New Driver**.

   ![Driver Definitions](image-url)

3. In **Driver Definitions**, click **Add New Driver**.
4 Under **Operation Type**, select **Ratio-Based Allocation**.

5 In **Name**, enter a unique name for the new driver.

**Caution!** Do NOT use special or restricted characters in the driver name, such as /, +, or @ signs, because doing so may cause import operations to fail. See the *Oracle Essbase Database Administrator’s Guide* to view the latest restrictions.

6 **Optional:** In **Description**, enter a brief description of the purpose of the driver.

7 In **Sequence Priority**, enter the calculation priority as a positive integer. By default, 100 is displayed. The highest priority is 1. For more information, see “Driver Priority Sequence” on page 253.

8 Under **Assign to Destination Measure**, click the Browse button to select the Destination measure to which the driver will write the allocated values, and then click **OK**.

9 Under **Define Driver Value**, enter the driver formula equation to determine the value of the Driver Value when the driver is executed.

You can build the formula using both the keyboard and the Insert button. The formula requires a source and destination combination. The driver formula may be as simple as =destination.headcount, or may be a complex combination of source and destination measures, mathematical and other functions supported by SQL.

To use the Insert Selector:

a. Click **Insert** to display the Insert selector for the available measures for the driver.

b. From the drop-down list, select the stage within the model to which the measures apply: **Source** or **Destination**.

   The list of Available Measures changes to reflect the choice. For example, if you selected Source, only source measures are displayed.
c. From the dimension members list, select the measure for the formula.

Use the Context Menu to filter or modify the display of members.

**Note:** Filter and sort are available only when Grid View is selected.

d. Click **OK**.

10 After entering the formula, click **Validate**.

The SQL driver formula is validated, and a success message is displayed. Address any errors before proceeding.

11 **Optional:** Under **Options**, select **Allow Idle** to enable this driver to accept idle values.

If this option is selected, and the system detects an Override on the source, that value is used as the ratio denominator.

12 **Optional:** If **Allow Idle** is selected, under **Override Total Driver Value Measure**, click **Browse** to select the measure that will be used as the ratio denominator if an Override is detected on the source.

13 Click **OK** to save the new driver.

14 Associate the driver with one or more dimension members. See “Working with Detailed Profitability Drivers” on page 264.

**Modifying Ratio-Based Drivers**

➢ To modify ratio-based drivers:

1 From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application for which you want to modify the driver.

2 From **Task Areas**, select **Manage Allocations**, and then **Driver Definitions**.

3 Click **Edit Driver**.

4 In **Define Driver**, modify any of the following parameters for the selected driver:
   - Name
   - Description
   - Operation Type
   - Sequence Priority
   - Assign to Destination Measure

   **Caution!** Do NOT use special or restricted characters in the driver name, such as /, +, or @ signs, because doing so may cause import operations to fail. See the Oracle Essbase Database Administrator’s Guide to view the latest restrictions.

5 **Optional:** Under **Define Driver Value**, modify the driver formula equation, and then click **Validate**.
The SQL driver formula is validated, and a success message is displayed. Address any errors before proceeding.

6 Optional: Under Options, modify the Allow Idle selection, and the Override Total Driver Value Measure.

7 Click OK to save the modified driver.

If you want the modified driver to be applied to the calculated results, you must recalculate the model.

Deleting Ratio-Based Drivers

Caution! If a driver is deleted, all driver selections and multi source assignment calculation rules that used the deleted driver are also removed.

To delete ratio-based drivers:

1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that contains the driver to be deleted.

2 From Task Areas, select Manage Allocations, and then Driver Definitions.

3 Select the driver that you want to delete.

4 Click Delete driver.

5 In the confirmation message, click Yes to delete the driver.

Working with Rate-Based Drivers

The rate-based driver type calculates both a unit rate and a volume driver from the source to the destination, and allocates the results to the destination in the measure designated in the driver definition, using the following formula:

Driver Unit Rate (Currency) * Volume Parameter

The results are used for balancing and determining unassigned values. If the sum of the allocated values is greater than the input value of the source, the difference is captured in a measure for the overdriven amount.

See the following procedures:

- “Defining Rate-Based Drivers” on page 258
- “Modifying Rate-Based Drivers” on page 260
- “Deleting Rate-Based Drivers” on page 261
Defining Rate-Based Drivers

To define rate-based drivers:

1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application for which you want to create the driver.

2. From **Task Areas**, select **Manage Allocations**, and then **Driver Definitions**. The Driver Definitions window is displayed.

3. In **Driver Definitions**, click **Add New Driver**. The Define Driver dialog box is displayed.
4 For **Operation Type**, select **Rate-Based Allocation**.

5 For **Name**, enter a unique name for the new driver.

**Caution!** Do NOT use special or restricted characters in the driver name, such as /,+, or @ signs, because doing so may cause import operations to fail. See the *Oracle Essbase Database Administrator’s Guide* to view the latest restrictions.

6 **Optional:** In **Description**, enter a brief description of the purpose of the driver.

7 In **Sequence Priority**, enter the calculation priority as a positive integer. By default, 100 is displayed. The highest priority is 1. For more information, see “Driver Priority Sequence” on page 253.

8 Under **Assign to Destination Member**, click the **Browse** button to select the Destination measure to which the driver will write the allocated values, and then click **OK**.

   **Note:** If Lookup measures is selected for Assign to Destination Measure, then appropriate validation error will appear on Drivers tab in Model Validation.

9 Under **Define Rate**, enter the **rate to be applied in the formula** \((\text{Rate} \times \text{Volume})\).

   You can enter the actual rate, or you can create a formula using both the keyboard and the Insert button.

   To use the Insert Selector:
   
   a. Click **Insert** to display the Insert selector for the available measures for the driver.
   
   b. From the drop-down list, select the stage within the model to which the measures apply: **Source** or **Destination**.

   The list of Available Measures changes to reflect the choice made from the location list. For example, if Source is selected, only source measures are displayed.
c. From the dimension members list, select the measure for the formula.

Use the Context Menu to filter or modify the display of members.

**Note:** Filter and sort are available only when Grid View is selected.

d. Click **OK**.

10 Enter the formula, and then click **Validate**.

The SQL driver formula is validated, and a success message is displayed. Address errors before proceeding.

11 **Under Define Volume, enter the volume to be applied in the formula** \((Rate \times Volume)\).

You may enter a specific volume, or you can create a formula using both the keyboard and the Insert button.

To use the Insert Selector:

a. Click **Insert** to display the Insert selector for the available measures for the driver.

b. From the list, select the stage within the model to which the measures apply: **Source** or **Destination**.

The list of Available Measures changes to reflect the choice made from the location drop-down list. For example, if Source is selected, only source measures are displayed.

c. From the dimension members list, select the measure for the formula.

Use the Context Menu to filter or modify the display of members.

**Note:** Filter and sort are available only when Grid View is selected.

d. Click **OK**.

12 Enter the formula, and then click **Validate**.

The SQL driver formula is validated, and a success message is displayed. Address any errors before proceeding.

13 Click **OK** to save the new driver.

14 Associate the driver with one or more dimension members. See “Working with Detailed Profitability Drivers” on page 264.

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**Modifying Rate-Based Drivers**

To modify rate-based drivers:

1 From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application for which you want to modify the driver.

2 From **Task Areas**, select **Manage Allocations**, and then **Driver Definitions**.

3 Click **Edit Driver**.
4 Modify any of the following parameters for the selected driver:
   - Name
   - Description
   - Operation Type
   - Sequence Priority
   - Assign to Destination Member

**Caution!** Do NOT use special or restricted characters in the driver name, such as /, +, or @ signs, because doing so may cause import operations to fail. See the Oracle Essbase Database Administrator’s Guide to view the latest restrictions.

5 **Optional:** Under Define Rate, modify the rate for the formula, and then click Validate.
   The SQL driver formula is validated, and a success message is displayed. Address any errors before proceeding.

6 **Optional:** Under Define Volume, modify the volume for the formula, and then click Validate.
   The SQL driver formula is validated, and a successful message is displayed. Any errors must be addressed before proceeding.

7 **Click OK** to save the modified driver.
   If you want the modified driver to be applied to the calculated results, you must recalculate the model.

### Deleting Rate-Based Drivers

**Caution!** If a driver is deleted, all driver selections that used the deleted driver are also removed.

1 To delete rate-based drivers:
   1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that contains the driver to be deleted.
   2 From Task Areas, select Manage Allocations, and then Driver Definitions.
   3 In Driver Definitions, select the driver that you want to delete.
   4 **Click Delete**.
   5 In the confirmation message, click Yes to delete the driver.

### Working with Calculated Measure Drivers

The calculated measure drivers are custom mathematical calculations that can be applied to calculate values that do not require a source/destination context. The calculated results can be used as a driver value.
Calculated measure drivers deal with the Destination stage only, so you must designate a destination. Based on the driver definition, the values specified in the custom driver formula are posted to the destination in the measure specified within the driver definition.

For example, you can create a custom formula to calculate some of the following sample tasks:

- Compute the time value of money where all of the parameters exist on the destination object, such as an invoice amount, average days to pay, interest rate, and so on.
- Compute the extended cost for an invoice line where the unit cost and volume exist on the destination.
- Compute the standard cost of goods where the unit cost and volume exist on the destination.

See the following procedures:

- “Defining Calculated Measure Drivers” on page 262
- “Modifying Calculated Measure Drivers” on page 263
- “Deleting Calculated Measure Drivers” on page 263

**Defining Calculated Measure Drivers**

To define calculated measure drivers:

1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application for which you want to create the driver.

2. From **Task Areas**, select **Manage Allocations**, and then **Driver Definitions**.

3. In **Driver Definitions**, click the Add New Driver button.

4. In **Name**, enter a unique name for the new driver.

5. Optional: In **Description**, enter a brief description of the purpose of the driver.

6. Under **Write Result to Destination Measure**, click the Browse button to select the Destination measure to which the driver will write the allocated values, and then click **OK**.

7. In **Define Driver**, under **Operation Type**, select **Calculated Measure**.

8. In **Sequence Priority**, enter the calculation priority as a positive integer. By default, 100 is displayed. The highest priority is 1.

9. Under **Calculation Formula**, enter the custom driver formula equation.

You can build the formula using both the keyboard and the Insert button.

To use the Insert Selector:

a. Click **Insert** to display the Insert selector for the available measures for the driver.

b. From the list, select **Destination** to display available Destination measures.
c. From the dimension list, select the measure for the formula.

d. Click **OK**.

10 **After entering the formula, click Validate.**

The SQL driver formula is validated, and a success message is displayed. Address any errors before proceeding.

11 **Click OK to save the new driver.**

### Modifying Calculated Measure Drivers

To modify calculated measure drivers:

1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application for which you want to modify the driver.

2. From **Task Areas**, select **Manage Allocations**, and then **Driver Definitions**.

3. In **Driver Definitions**, click the **Edit Driver** button.

   The Define Driver dialog box for the selected driver is displayed.

4. **On Define Driver**, modify any of the following parameters for the selected driver:
   - Name
   - Description
   - Operation Type
   - Sequence Priority
   - Write Result to Destination Measure

   **Caution!** Do NOT use special or restricted characters in the driver name, such as /,+, or @ signs, because doing so may cause import operations to fail. See the *Oracle Essbase Database Administrator’s Guide* to view the latest restrictions.

5. **Optional:** Under **Calculation Formula**, modify the custom formula, and then click **Validate**.

   The SQL driver formula is validated, and a success message is displayed. Address any errors before proceeding.

6. **Click OK to save the modified driver.**

   If you want the modified driver to be applied to the calculated results, you must recalculate the model.

### Deleting Calculated Measure Drivers

**Caution!** If a driver is deleted, all stage calculated measures that used the deleted driver are also removed.
To delete calculated measure drivers:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that contains the driver to be deleted.

2. From Task Areas, select Manage Allocations, and then Driver Definitions.

3. In Driver Definitions, select the driver that you want to delete.

4. Click the Delete button.

5. Click Yes to confirm deletion of the driver.

Working with Detailed Profitability Drivers

After a driver is created, it must be associated with the dimension members to which it applies. A maximum of five dimensions are available for the Source stage.

Drivers must be associated with an intersection that contains a value in order for the value to be allocated. If a driver has not been assigned to an intersection that contains assignments or assignment rules, a “Missing Driver Assignments” error is created during model validation.

- “Selecting Detailed Profitability Drivers” on page 265
- “Creating Detailed Profitability Driver Selections for a Single Intersection” on page 266
- “Deleting Detailed Profitability Driver Selections” on page 268
- “Deleting Detailed Profitability Driver Selections for One Intersection” on page 268
- “Adding a Single Driver to Multiple Source Stage Rules” on page 269
- “Deleting Detailed Driver Selections for One Intersection” on page 268

Creating Duplicate Drivers

Using the Create Duplicate Driver option, you can copy an existing driver definition, and assign the driver a new name. The copy can be modified as required, as outlined for the driver type.

This option enables you to rapidly create many similar drivers without having to reopen the Driver Definition dialog box.

To create new drivers from existing driver definitions:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application for which you want to create the driver.

2. From Task Areas, select Manage Allocations, and then Driver Definitions.

3. Select the driver that you want to use as the template for the new driver definition.

   You can select any driver type.

4. Click Create Duplicate Driver.
5 Enter the name of the new driver, and then click OK.

The new driver is added to the list of Driver Definitions, and the type and information for the driver are the same as the original driver.

**Caution!** Do NOT use special or restricted characters in the driver name, such as /, +, or @ signs, because doing so may cause import operations to fail. See the *Oracle Essbase Database Administrator’s Guide* to view the latest restrictions.

6 Modify the driver as required.

### Selecting Detailed Profitability Drivers

To associate drivers:

1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2 In an open model, from Task Areas, select Manage Allocations, then Driver Selections.

3 Select a POV, and then click Load the POV status.

4 On the Driver Rules tab, under Source, view the selected Source stage.
The driver dimension of the selected stage is displayed in the first column, and all dimension members within that driver dimension are listed below.

5 Under the dimension, select the dimension member to which you want to apply the default driver. The parent level may be at the top of the stage, or a parent for a portion of the hierarchy.

6 Under Driver, double-click the cell to display Selector, or click Add to select a driver for the dimension member from the Common Member Selector, and then click OK. See “Using the Common Member Selector” on page 35.

When the driver is applied to a parent, the same driver is automatically inherited by all descendants.

7 Optional: To select a driver other than the inherited driver for one member, perform the following steps:
   a. Expand the parent dimension member.
   b. Select the member that requires a different driver.
   c. Under Driver, double-click the cell to display Selector or click Add to select an alternative driver for selected dimension member from the Common Member Selector, and then click OK. See “Using the Common Member Selector” on page 35.

The driver selection is automatically saved.

8 Optional: To set a driver for a single intersection, see “Creating Detailed Profitability Driver Selections for a Single Intersection” on page 266.

Creating Detailed Profitability Driver Selections for a Single Intersection

To select a driver for a single intersection:

1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2 In an open model, from Task Areas, select Manage Allocations, and then Driver Selections.
3 Select the POV, then click Go.

4 Select the Exceptions tab.

Under Source, the source stage is displayed.

5 Optional: On the Exceptions tab, click Grid Options to filter the list of available driver exceptions:
   a. Select Show Alias or Show Name, as required.
   b. Click Filter to display the Filter dialog box.
   c. Enter the filter criteria for one or more dimensions.
      Enter the exact name or alias of the required members, or use a trailing asterisk (*) as a wild card to select a range of members, or a trailing question mark (?) to select a single character. For example, to find all members of a dimension that begins with the letter “M”, enter “M*”. Entering the asterisk before the letter does not work, for example “*M.”
   d. Click OK.
      Only the items that meet the filter criteria are displayed on the Exceptions tab.

6 Click Add new driver exception.
7 For each dimension listed on the Exception dialog box, click the Selector and select the members for the specific intersection to which you need to apply the exception driver.

See “Using the Common Member Selector” on page 35.

8 Under Drivers, select the exception driver for the intersection.

9 Click OK.

Deleting Detailed Profitability Driver Selections

If a driver selection is deleted, and no new driver is selected, an error is reported during validation to indicate that an assignment does not have a driver selection.

To delete driver selections:

1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2 In an open model, from Task Areas, select Manage Allocations, then Driver Selections.

3 Select a POV, and then click Go.

On the Driver Rules tab, under Source, the source stage is selected.

4 Select the row containing the driver selection to be deleted.

5 Click Delete driver rule.

6 Click Yes to confirm the deletion of the driver.

Deleting Detailed Profitability Driver Selections for One Intersection

Select the intersection that is to be deleted. The entire intersection is removed from the Exception tab.

If a driver selection is deleted, and no new driver is selected, an error is reported during validation to indicate that an assignment does not have a driver selection.
To delete driver selections for one intersection:

1. In an open model, from Task Areas, select Manage Allocations, then Driver Selections.

2. Select a POV, and then click Go.

3. Select the Exceptions tab.

   Under Source, the source stage is selected.

4. Select the intersection to be deleted.

5. Click Delete driver exception.

6. Click Yes to confirm the deletion.

Working with the Bulk Editor

The Bulk Editor on the Driver Selections, Exceptions or Assignment screen enables you to create multiple driver selections and assignments quickly and efficiently, without having to create each driver selection and assignment individually.

You can perform bulk edits on both Drivers and Assignments. The Bulk Edit is intended for a one-time use only, and it is not saved. You cannot rerun a generated Bulk Edit. You must create a new Bulk Edit for each operation.

Caution! If a bulk edit does not perform the update that you expected, you may have to clear and rebuild the stage.

To view the results of the bulk update, you must generate a report for the database.

See the following procedures:

- “Adding a Single Driver to Multiple Source Stage Rules” on page 269
- “Removing Drivers from Multiple Source Stage Rules” on page 272
- “Adding Assignment Rule to Multiple Source Stage Rules” on page 273
- “Removing Assignment Rules from Multiple Source Stage Rules” on page 275

Adding a Single Driver to Multiple Source Stage Rules

Use the Bulk Editor to add a single driver to multiple Source Stage Rules.

To add driver selections through Bulk Edit:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2. In an open model, from Task Areas, select Manage Allocations, and then Driver Selections.

3. Select the Exceptions tab.
4 Click **Open Bulk Editor**.

5 **Optional:** On **Select Edit Type**, under **Comment**, enter a descriptive name for the Bulk Edit. This name is displayed for the selected bulk edit task on the Job Library screen.

6 Under **Edit Type**, select **Add Drivers**, and then click **Next**.
7 On **Select Sources**, from **Available Source Rules**, select the Source Stage Assignment Rules to which you want to apply the selected driver, and then use the arrow keys to move them to the **Selected Source Rules** column.

8 **Optional**: Click **Information** to view the description of the selected stage rule.

9 Click **Next**.
10 On Define Edit, under Available Drivers, select the name of the driver to be associated with the bulk edit. Only one driver can be selected.

11 Use the arrow keys to move the selected driver to Selected Driver, and then click Next.

The Bulk Edit Summary screen is displayed:

- Under For These Sources, the selected sources to which the selected driver will be applied are displayed.

- Under Add This Driver, the driver that will be applied to the selected sources is displayed.

12 Click Finish.

The sources defined by the selected source rules are updated with the selected driver.

13 Optional: To view the results of the bulk update, generate a report for the database.

### Removing Drivers from Multiple Source Stage Rules

Use the Bulk Editor to remove a single driver from multiple Source Stage Rules.

To remove a driver from multiple Source Stage Rules:

1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2 In an open model, from Task Areas, select Manage Allocations, and then Driver Selections.

3 Select the Exceptions tab.

4 Click Open Bulk Editor.
5 Optional: In Select Edit Type, under Comment, enter a descriptive name for the Bulk Edit. This name is displayed for the selected bulk edit task on the Job Library screen.

6 Under Edit Type, select Remove Drivers, and then click Next.

7 On Select Sources, under Available Source Rules, select the Stage Rules which you want to apply to the bulk edit, and then use the arrow keys to move them to the Selected Source Rules column.
   - Optional: Click Select Entire Stage to select all the node intersections on the stage.
   - Optional: Click Information to view the description of the selected stage rule.

8 Click Next.

9 On Define Edit, under Available Drivers, select the drivers to be removed.
   You can click Remove All Drivers to select all available drivers for removal.

10 Use the arrow keys to move the selected drivers to Selected Drivers, and then click Next.
   The Bulk Edit Summary screen is displayed:
   - Under For These Sources, the selected sources from which the selected drivers will be removed are displayed.
   - Under Remove these Drivers, the drivers to be removed are displayed.

11 Click Finish.

---

Caution! Exercise extreme caution when performing a Bulk Edit Delete. No Delete confirmation is displayed when you click “Finish” so there is no opportunity to cancel the Bulk Edit Delete. The selected drivers from sources defined by the source stage rules are removed immediately.

12 Optional: To view the results of the bulk update, generate a report for the database.

Adding Assignment Rule to Multiple Source Stage Rules

Use the Bulk Editor to add Destination Stage Rules to Multiple Source Stage Rules.

➢ To add Destination stage rules to Multiple Source stage rules:

1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2 In an open model, from Task Areas, select Manage Allocations, and then Driver Selections.

3 Select the Exceptions tab.
4 Click **Open Bulk Editor**.

5 **Optional:** On **Select Edit Type**, under **Comment**, enter a descriptive name for the Bulk Edit. This name is displayed for the selected bulk edit task on the Job Library screen.

6 Under **Edit Type**, select **Add Assignment Rules**, and then click **Next**.

7 On the **Select Sources** tab, under **Available Source Rules**, select the Source Stage Assignment Rules to be added, and then use the arrow keys to move them to the **Selected Source Rules** column.

   Click **Information** to view the description for the selected assignment rule.

8 **Click Next**.

   Step 3: Define Edit is displayed.

9 On the **Define Edit** tab, under **Available Destination Rules**, select the Destination Stage Assignment Rules to be added, and then use the arrow keys to move them to the **Selected Destination Rules** column.

10 **Click Next**.

   The Bulk Edit Summary screen is displayed:
   
   - Under **For These Sources**, the selected Source Assignment Rules are displayed.
   - Under **Add these Destination Rules**, the selected Destination Assignment Rules are displayed.

11 **Click Finish**.

   The selected source stages are updated.
Optional: To view the results of the bulk update, generate a report for the database.

Removing Assignment Rules from Multiple Source Stage Rules

Use the Bulk Editor to remove assignment rules from multiple Source Stage Rules.

To remove assignment rules from multiple Source Stage Rules:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. In an open model, from Task Areas, select Manage Allocations, then Driver Selections.
3. Select the Exceptions tab.
4. Click Open Bulk Editor.
5. Optional: On Select Edit Type, under Comment, enter a descriptive name for the Bulk Edit. This name is displayed for the selected bulk edit task on the Job Library screen.
6. Under Edit Type, select Remove Assignment Rules, and then click Next.

Step 2: Select Sources is displayed.

7. On Select Sources, under Available Source Rules, select the Stage Rules that you want to remove, and then use the arrow keys to move them to the Selected Source Rules column.
   • Optional: Click Select Entire Stage to select all node intersections on the stage.
   • Optional: Click Information to view the description of the selected stage rule.
8. Click Next.
9. On the Define Edit tab, under Available Destination Rules, select the destination assignment rules to be removed.
   You can click Remove All Rules to select all available destination assignment rules for removal.
10. Use the arrow keys to move the selected destination assignment rules to Selected Destination Rules, and then click Next.

The Bulk Edit Summary screen is displayed:

• Under For These Sources, the selected sources from which the selected destination assignment rules will be removed are displayed.
• Under Remove these Destination Rules, the destination assignment rules to be removed are displayed.
11. Click Finish to remove the selected assignment rules.
Caution! Exercise extreme caution when performing a Bulk Edit Delete. No Delete confirmation is displayed when you click “Finish” so there is no opportunity to cancel the Bulk Edit Delete. The selected assignment rules from sources devined by the source stage rules are removed immediately.

Optional: To view the results of the bulk update, generate a report for the database.

Working with Detailed Profitability Assignment Rules

Assignment rules define the sources and their destinations for the allocations or calculations that are posted. Frequently, models include multiple assignments that use the same parameters. To simplify the creation of multiple assignments that are similar in nature, you can create and reuse assignment rules that specify the assignment parameters.

An assignment rule is a collection of member sets and optional filter sets. A filter is a collection of criteria that are applied to a dimension. The assignment rules are created based on one or more of the following criteria:

- Membership in a specific branch of the dimension hierarchy
- Member name
- Member alias

The Assignment Rule dialog, available from the Assignment Rule Definitions screen, enables you to create an assignment rule.

You can create assignment rules, using the following options:

- Define a specific set of member sets and optional filter sets for a single destination stage.
- Define a Same As Source assignment rule that replaces the destination stage dimension members with the selected source dimension member during the calculation. The basic concept for defining Same As Source assignment rules in Detailed Profitability is the same as in Standard Profitability. See the example in the beginning of “Working with Standard Profitability Assignment Rules” on page 104.

See the following procedures:

- “Creating Assignment Rules” on page 276
- “Duplicating Detailed Profitability Assignment Rules” on page 277
- “Modifying Assignment Rules” on page 278
- “Deleting Assignment Rules” on page 279

Creating Assignment Rules

To create assignment rules:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2 In an open model, from Task Areas, select Manage Allocations, and then Assignment Rule Definitions.

The Assignment Rule Definition screen is displayed, showing the Name, Description, Stage, Search Tag and the creator’s ID for each existing assignment rule.

3 Click Add new assignment rule.

4 On the Assignment Rule dialog box, in Name, enter the name for the new assignment rule.

5 Under Stage, select the stage for the assignment rule.

The associated dimensions are displayed under Dimension Selections.

6 Optional: Under Description, enter a brief description of the purpose or contents of the new assignment rule.

7 Optional: Enter a Search Tag to facilitate later searches for the rule.

8 Under Dimension Selections, review the dimensions for the selected stage.

9 Under the Member Defined column, click the cell for the dimension for which you want to define members.

The members for the selected dimension are displayed under Dimension Member Selection.

Use the Context Menu button to change the view, filter, or sort the list of dimension members.

10 Under Dimension Member Selection, select the members to be included in the new assignment rule, and click the Add arrow icon to move them under the Selected Dimension Members column.

Click Filter to filter the non-0-level members selected, if required. See “Using Filters” on page 38. Non-EPMA dimensions can be viewed on the Data Filters tab (for destination assignment rules).

11 Click OK.

The Assignment Rule is added to the list of Assignment Rule Definitions.

Duplicating Detailed Profitability Assignment Rules

To easily create similar assignment rules, you can duplicate an existing assignment rule, and edit it to create a new assignment rule.

To duplicate assignment rules:

1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2 In an open model, from Task Areas, select Manage Allocations, then Assignment Rule Definitions.

The Assignment Rule Definition screen is displayed, showing the name, Description, Stage, Search Tag and the creator’s ID for each existing assignment rule.

3 Select the assignment rule that you want to use as the template for the new assignment rule.
4 Click Create Duplicate Rule. The Create Duplicate Assignment Rule dialog box is displayed.

5 On the Create Duplicate Assignment Rule dialog box, enter a name for the new assignment rule, and then click OK. The duplicated assignment rule is added to the list of Assignment Rule Definitions on the Assignment Rule Definitions screen.

6 Modify the new assignment rule as required. See “Modifying Assignment Rules” on page 278.

Modifying Assignment Rules

To modify assignment rules:

1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2 In an open model, from Task Areas, select Manage Allocations, and then Assignment Rule Definitions.

3 On the Assignment Rule Definition screen, select the assignment rule that you want to modify.

4 Click Edit assignment rule.

5 On the Assignment Rule dialog box, modify any of the following elements:
   - Name
   - Description
   - Search Tag
   - Dimension Member Selection
   - Data Filter (for destination assignment rules)
   - Custom SQL Filter (for destination assignment rules)

6 Click OK. The modified Assignment Rule is saved and displayed in the list of the Assignment Rule Definitions screen.
Deleting Assignment Rules

To delete assignment rules:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2. In an open model, from Task Areas, select Manage Allocations, and then Assignment Rule Definitions.

3. On the Assignment Rule Definitions screen, select the assignment rule that is to be deleted.

4. Click Delete assignment rule.

**Caution!** Deletion of an assignment rule affects the calculation of model data because the rule and its rule selections are deleted.

5. In the Confirmation dialog box, click Yes to confirm deletion of the assignment rule.

The selected assignment rule is deleted and removed from the list of Assignment Rule Definitions on the Assignment Rule Definition screen.

Working with Assignments in Detailed Profitability

Assignments define the flow of data from the source to the destination. Each assignment is the combination of the selected source stage and the driver that performs the calculation of the source value into a result that is assigned to the destination of the assignment.

In Detailed Profitability, destinations for the assignments are defined by mapping the source intersection to one or more of the assignment rules. Explicitly defined destinations are not supported in Detailed Profitability. You can also create an assignment rule that can be used multiple times. See “Working with Detailed Profitability Assignment Rules” on page 276.

For detailed instructions on working with assignments, see these sections:

- “Creating Assignments” on page 279
- “Deleting Assignments” on page 283

Creating Assignments

Oracle recommends that you create all assignments for a process or allocation in sequence to ensure that all elements are captured. After you create all assignments, the model structure is validated to verify that no appropriate driver selections are missing.

To create assignments:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

2. In an open model, from Task Areas, select Manage Allocations, then Assignments.
3. On the Assignments screen, select a POV for the selected model, and then click Load the POV status.

4. Under Source, select a member from each dimension to create the intersection for the source of the assignment. The Source stage is pre-selected.

   The first two dimensions for the source stage are displayed directly above the displayed dimensions, while the last three dimensions for the source stage are displayed with full member lists.

   **Note:** To find a member in the hierarchy, type the member name in the text box at the bottom of the column, and then click Search.

5. **Optional:** To rearrange the dimensions that are displayed on the Assignments screen, click Reorder Dimensions.

   Use the arrow keys to move the dimensions up or down into the required sequence, and then click OK. To revert to the original sequence, click Use Default Order.

6. **Optional:** Under Destination, select Member Selector to filter the list of available destinations:

   a. Select Filter to display the Filter dialog box.
   
   b. Enter the filter criteria in Name or Stage, and then click OK.

   Enter the exact name of the required item, or use a trailing asterisk (*) as a wild card to select a range of items, or a trailing question mark (?) to select a single character. For example, to find all destination assignment rules with names that begin with the letter “M”, enter “M*” in the Name field. Entering the asterisk before the letter does not work, for example “*M.”

7. Under Destination, click Open Assignment Rules Management.
To add multiple assignment rules, see “Working with the Bulk Editor” on page 269.

8 On the Assignment Rule Management screen, click Add new assignment rule. See “Creating Assignment Rules” on page 276

9 On the Assignment Rule screen, enter details for the new assignment rule:
   - In Name, enter the name for the new assignment rule.
From **Stage**, select the stage.

Optional: In **Description**, enter a brief description of the purpose of the new assignment rule.

Optional: Enter a **Search Tag** to help you locate the assignment rule at a later time.

10 Under **Dimensions and Dimensions Selection**, use the arrow keys to move the dimension members to the **Selected Dimension Members** column.

11 Optional: To filter the Destination stage on the Data Filters tab:

a. From **Stage**, select the Destination stage.

The Data Filters tab is displayed.

b. Click the **Data Filters** tab.

c. On the **Data Filters** tab, under **Columns**, select the dimension to be used for the assignment rule.

The Filter Statement is displayed in the right pane. For example, SELECT from Customer Zone Weight.

d. Optional: To create a standard type of filter, double-click each field to enter the parameters for the filter:

- Under **Operation**, select the type of operation to be used, such as <, >, Equal, Not Equal.
- Under **Value**, double-click the field to enter the appropriate value.
- Under **Condition**, double-click the field to select OR or AND from the drop-down list to append additional filter statements.
e. **Optional:** To create a custom filter, click **Use Custom Filter.** A Filter Statement and blank edit pane are displayed, so you can enter a mathematically and syntactically correct SQL formula.

![Custom Filter Example](image)

12 Click **OK.**

13 On the **Assignment Rules Management** dialog box, select stage sets using the arrow keys, and then click **OK.**

The Destination column is populated with the selected stage sets.

### Deleting Assignments

You can delete assignments as required; however, be aware that any changes will affect the financial flow and the calculation results for the model.

To delete assignments:

1. From EPM Workspace, select **Navigate,** then **Applications,** then **Profitability,** and then select the application that you want to view.

2. In an open model, from **Task Areas,** select **Manage Allocations,** and then **Assignments.**

3. Select the POV of the model that contains the assignment to be changed, and then click **Load the POV status.**

4. Under **Destination,** select the assignment rule to be unassigned.

5. Click **Unassign assignment rule.**

6. In the Confirmation message, click **Yes** to confirm the deletion.
Calculating Detailed Profitability Models

Managing Detailed Profitability Databases

Managing Detailed Profitability Calculations

In This Chapter

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After you validate the structure and data of a model, you can manage the database and calculate the model.

Caution! Oracle recommends that the calculation of models be performed by an Admin or Power User who has a working knowledge of Performance Management Architect, Detailed Profitability and Cost Management, and the client’s model data and databases. For more detailed information on Pre- and Post-Calculation Custom Scripts, see the “Calculating Detailed Profitability” section in Oracle Hyperion Profitability and Cost Management Administrator’s Guide.

Managing Detailed Profitability Databases

See the following sections:

● “Deploying Detailed Profitability Reporting Views” on page 285
● “Deploying Detailed Profitability Source Stage Database” on page 288
● “Deploying Detailed Profitability Contribution Database” on page 289
● “Deploying Detailed Profitability Destination Stage Database” on page 291

Deploying Detailed Profitability Reporting Views

After validating the structure and data of a model, you must deploy the dimension objects to create system-generated Reporting Views and synchronize the views. The views are created on the Detailed Profitability Product schema with access grants to the Model Data Schema that was selected on the Model Level Preferences tab.

All deployed Performance Management Architect dimensions are listed, including EPMA, POV, and attribute dimensions. To see which dimensions should be included, you can view the list for the application in the Application Library. Attribute dimensions are only displayed if they are in the application.
There are two categories of system-generated reporting views:

- Reporting Hierarchy Table – Displays one row for each ancestor level in the hierarchy (parent, grandparent, and so on).
- Reporting Attribute View – Displays one row per dimension member, including all levels of the hierarchy (the dimension member and any defined dimension attributes) This joins the dimension member with other attribute values.

The view and table names are generated in the following format:

\[<\text{Product Name}>_<\text{Application Name}>_<\text{User-Defined Dimension Short Name}>_<\text{View/Table Type}_V>(\text{for views only})\]

For example:

- HPMD_DEMO_ACCOUNTS_HIER (Hierarchy Table)
- HPMD_DEMO_ACCOUNTS_ATTR_V (Attribute View)

The deployed views and tables are available under the Model Data Schema as synonyms, and these views and tables are useful for creating the custom reports.

**Note:** Because the data is persisted, you must re-generate these reporting tables after maintaining dimensions in Performance Management Architect and re-deploying dimension changes to Oracle Fusion Performance Management, in order to refresh the persisted data in these tables.

To create the Reporting View, you must first deploy the application in Performance Management Architect. After the deployment, change the Short Names, if required.

- To create or recreate the application dimension views:
  1. Ensure that the selected application has been deployed in Performance Management Architect. See Oracle Essbase Database Administrator’s Guide for instructions.
  2. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application for which you want to create reporting views.
  3. In an open model, from Task Areas, select Calculate, and then Manage Database.
4 On Manage Database, on the Reporting Tables and Views tab, review the Model Data Schema.

If the Model Data Schema is not the one that you want to use, you cannot change it on this screen. You must go back to the Model Level Preferences tab to select the correct one. See “Selecting the Detailed Model Data Schema” on page 217.

5 Optional: Under Last Application Deployment and Last Reporting View Deployment, review the displayed dates.

The Last Reporting View Deployment date should be later than the Last Application Deployment. If not, redeploy the Reporting Views to synchronize the applications.

6 On the Reporting Dimensions pane, select the dimensions to be included in the deployment:

- Check Select All to include all listed dimensions.
- Check individual dimensions to include only those dimensions.

7 Optional: Under the dimension Short Name, for any selected dimension, double-click the cell to open it for editing and enter a short name of up to 10 characters. This short name is used to create the Reporting View names.

By default, the first 10 characters of the dimension name are used when the table is generated. This short name is used in the Reporting View names. By default, the characters are all in uppercase.

Note: Do NOT use special or restricted characters in the Short Name, such as /, +, or @ signs. See the Oracle Essbase Database Administrator's Guide to view the latest naming restrictions.

8 Click Deploy.
The deployed views are based on the Profitability and Cost Management application tables. These views are created on the Profitability and Cost Management Product schema, and grants are made to access the Reporting Views in the Model Data Schema. See the Oracle Hyperion Profitability and Cost Management Administrator’s Guide.

Deploying Detailed Profitability Source Stage Database

To deploy source stage database:

1. In an open model, from Task Areas, select Calculate, and then Manage Database.
   Select the Source Stage Database tab.

2. Under Essbase Information, review the following information:
   - **Cluster** displays the name of the Essbase database cluster that contains the model.
   - **Application** displays the name of the Essbase application to which the application is being deployed.
   - **Database** displays the name of the Essbase database to which the application is being deployed.

3. Under Deploy Options, select the Database Options for deploying the source stage database:
   - For the first deployment of a database, all selections are grayed out. This option creates the entire database for the first time.
To redeploy an existing database, select **Update Database** to retain existing artifacts and property settings in the new database, and change the outline to reflect current metadata.

For subsequent deployments, select **Replace Database** to remove the database and applications completely, and recreate them.

4 **Under Deploy Options**, select the **Data Options** to be used for the source stage database deployment:

- Select **Archive Data Before Deploy** to export existing data to the application database folder. For the Calculation database, Only Level-0 data is exported for the ASO database. Data is always exported in the native format.

- Select **Archive Data and Reload After Deploy** to automatically import the data back into Essbase, using the previously exported data files. A Rules File is not generated for ASO databases.

  **Caution!** This option is available only if no dimensions are being added or removed. Dimensions can be added or removed in Performance Management Architect, or by adding, deleting, or changing a stage in Profitability and Cost Management.

- **Optional:** If **Archive Data and Reload After Deploy** was chosen, you can select **Delete Data Archive After Reload** to automatically delete the archived data only after the successful data reload.

5 **Optional:** Click **Deploy Later** to schedule a convenient date and time to run the deployment. See “**Scheduling Taskflows**” on page 172.

  **Caution!** If this option is not selected when the task is created, you will not be able to schedule the task.

6 **Optional:** Click **Deploy Now** to deploy the source stage database immediately.

A confirmation message is displayed, indicating that the job has started and identifying the assigned taskflow ID.

  **Caution!** Depending on the size and complexity of the model, this operation may take a significant amount of time.

7 Select **Jobs Status**, and then **Job Library** to monitor the task status.

8 If the **Replace Database** option was chosen, or the data import failed for some reason, after deployment, rerun the Data Transfer for this database.

9 Run Data Transfer for the generated database.

### Deploying Detailed Profitability Contribution Database

- **To deploy contribution database:**

1 In an open model, from **Task Areas**, select **Calculate**, and then **Manage Database**. Select the Contribution Database tab.
Under **Essbase Information**, review the following information:

- **Cluster** displays the name of the Essbase database cluster that contains the model.
- **Application** displays the name of the Essbase application to which the application is being deployed.
- **Database** displays the name of the Essbase database to which the application is being deployed.

Under **Deploy Options**, select the **Database Options** for deploying the contribution database:

- For the first deployment of a database, all selections are grayed out. This option creates the entire database for the first time.
- To redeploy an existing database, select **Update Database** to retain existing artifacts and property settings in the new database, and change the outline to reflect current metadata.
- For subsequent deployments, select **Replace Database** to remove the database and applications completely, and recreate them.

Under **Deploy Options**, select the **Data Options** to be used for the contribution database deployment for **Update Database** database option selected:

- Select **Archive Data Before Deploy** to export existing data to the application database folder. Only level-0 data is exported for the ASO database. Data is always exported in the native format.
- Select **Archive Data and Reload After Deploy** to automatically import the data back into Essbase, using the previously exported data files. A Rules File is not generated for ASO databases.
Caution! This option is available only if no dimensions are being added or removed. Dimensions can be added or removed in Performance Management Architect, or by adding, deleting, or changing a stage in Profitability and Cost Management.

- Optional: If Archive Data and Reload After Deploy was chosen, you can select Delete Data Archive After Reload to automatically delete the archived data only after the successful data reload.

5 Optional: Click Deploy Later to schedule a convenient date and time to run the deployment. See “Scheduling Taskflows” on page 172.

Caution! If this option is not selected when the task is created, you will not be able to schedule the task.

6 Optional: Click Deploy Now to deploy the contribution database immediately.

A confirmation message is displayed, indicating that the job has started and identifying the assigned taskflow ID.

Caution! Depending on the size and complexity of the model, this operation may take a significant amount of time.

7 Select Jobs Status, and then Job Library to monitor the task status.

8 If the Replace Database option was chosen, or the data import failed for some reason, after deployment, rerun the Data Transfer for this database.

9 Run Data Transfer for the generated database.

Deploying Detailed Profitability Destination Stage Database

To deploy destination stage database:

1 In an open model, from Task Areas, select Calculate, and then Manage Database. Select the Destination Stage Database tab.
2 Under Essbase Information, review the following information:

- **Cluster** displays the name of the Essbase database cluster that contains the model.
- **Application** displays the name of the Essbase application to which the application is being deployed.
- **Database** displays the name of the Essbase database to which the application is being deployed.

3 Under Deploy Options, select the Database Options for deploying the destination stage database:

- For the first deployment of a database, all selections are grayed out. This option creates the entire database for the first time.
- To redeploy an existing database, select Update Database to retain existing artifacts and property settings in the new database, and change the outline to reflect current metadata.
- For subsequent deployments, select Replace Database to remove the database and applications completely, and recreate them.

4 Under Deploy Options, select the Data Options to be used for the destination stage database deployment for Update Database database option selected:

- Select Archive Data Before Deploy to export existing data to the application database folder. Only Level-0 data is exported for the ASO database. Data is always exported in the native format.
- Select Archive Data and Reload After Deploy to automatically import the data back into Essbase, using the previously exported data files. A Rules File is not generated for ASO databases.
Caution! This option is available only if no dimensions are being added or removed. Dimensions can be added or removed in Performance Management Architect, or by adding, deleting, or changing a stage in Profitability and Cost Management.

- Optional: If Archive Data and Reload After Deploy was chosen, you can select Delete Data Archive After Reload to automatically delete the archived data only after the successful data reload.

5 Optional: Click Deploy Later to schedule a convenient date and time to run the deployment. See “Scheduling Taskflows” on page 172.

Caution! If this option is not selected when the task is created, you will not be able to schedule the task.

6 Optional: Click Deploy Now to deploy the destination stage database immediately.

A confirmation message is displayed, indicating that the job has started and identifying the assigned taskflow ID.

Caution! Depending on the size and complexity of the model, this operation may take a significant amount of time.

7 Select Jobs Status, and then Job Library to monitor the task status.

8 If the Replace Database option was chosen, or the data import failed for some reason, after deployment, rerun the Data Transfer for this database.

9 Run Data Transfer for the generated database.

Managing Detailed Profitability Calculations

Subtopics

- Calculating Detailed Profitability Models
- Driver Operation Types
- Other Process Types

After validating the model, you can calculate the model, select the processing options, including any Custom Scripts, or select distinct Data POVs.

Calculating Detailed Profitability Models

Processing times may be affected by calculation selections. You can run the operations directly from the screen or schedule a suitable time.

Running the Model Calculation creates two views for use within Reports, which you can use to create custom reports:
- HPMD_DEMO_STAGE_BALANCE_V—Contains the stage balance information viewed within the Stage Balance Report.
- HPMD_DEMO_LEVEL_0_CONTRIB_V—Contains the contribution information for each source and destination combination at Level Zero.

**Caution!** There is a new dependency for the Detailed Profitability calculation engine on the dimension hierarchy reporting tables that were previously optional. To deploy these tables, select Calculate, and then Manage Database, and then select the Reporting Tables and Views tab. You must redeploy these tables each time you redeployed the Detailed Profitability application from Enterprise Performance Management Architect (EPMA). To check whether the tables must be redeployed, see step 5 in “Deploying Detailed Profitability Reporting Views” on page 285.

To calculate a model:

1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application that you want to calculate.

2. In an open model, from **Task Areas**, select **Calculate**, and then **Manage Calculation**.

3. In the Task bar, select the POV for the model, and then click **Load the POV status**.

4. **Optional:** Under **Calculation Parameters**, in **Comment**, enter a brief description or name for the calculation.
Optional: Under Processing Options, check Clear Calculated Values to remove previously calculated data before beginning this calculation.

Under Execute Calculations, select the additional types of data that you want to generate for this calculation:

- Check Create Contribution Detail to include all contributions in the model in the calculation.
- Check Create Detailed Calculated Driver Tables to retain the Calculated Driver tables that store the calculated driver values before the next source intersection is processed.

Note: If this option is selected, a large number of tables may be generated, so you must ensure that there is enough storage space available. Be aware that processing time might increase.

Optional: If you selected multiple POVs, check Abort Task Flow if any POV fails. If one of the POVs fails, the calculation is stopped, and the remaining POVs are not calculated.

If you select Run a single calculation rule sequence, enter the individual sequence number.

Under Data Transfers, select the Essbase analysis databases that you want to transfer data into:

- **Source Stage Database**: Includes Source Stage Dimensions (including 'Source Measures Dimension') with stage prefix, Attribute Dimensions if any associated, 'MeasuresDetailed' Dimension, contains the detail of the source stage at level 0.
- **Contribution Database**: Includes Source Stage Dimensions with stage prefix, Destination Stage Dimensions with stage prefix, 'MeasuresDetailed' Dimension, Attribute Dimensions if any associated, contains the detail from the Level 0 Contribution Table and the single measure ReceivedPriorStage.
- **Destination Stage Database**: Includes Destination Stage Dimensions with stage prefix, Destination Measures Dimension, Attribute Dimensions if any associated, contains data from the destination stage table aggregated to the Level 0 members.

Optional: If you have Custom Scripts, enter the name of any pre- or post-calculation scripts that must be run.

Custom scripts are stored within the HPM Product Schema in the HPM_SQL_SCRIPT. For information on pre- or post-calculation scripts, see the Oracle Hyperion Profitability and Cost Management Administrator's Guide.

Optional: Under Use the Same POV for Model and Data, clear this option if you want to use a different POV to access Data; otherwise, the POV selected at the top of the screen is used for both model and data.

To set a different POV for Data:

a. Clear the Use the Same POV for Model and Data check box to enable POV selection.

b. Under Available Data POVs, select the Year, Period, and Scenario for the new Data POV.

c. Use the arrow keys to move the selected POV under Selected Data POVs.

d. Repeat step 11.b and step 11.c to create additional Data POVs.

Calculate the model, using one of the following options:
· Click **Run Later** to submit a calculation task for further scheduling data and the time of execution. A confirmation message indicates that the job has been created and identified the assigned taskflow ID. See “Scheduling Detailed Profitability Taskflows” on page 319.

**Note:** If this option is not selected when the task is created, you cannot schedule the task.

· Click **Run Now** to run the calculations immediately.

A confirmation message indicates that the job has started and identifies the assigned taskflow ID. Select **Jobs Status**, and then **Job Library** to monitor the task status.

---

**Caution!** Depending on the size and complexity of the model, this operation may take significant time.

---

**Driver Operation Types**

The Driver Operation Types tab on the Manage Calculation screen currently displays the current driver operation types for Detailed Profitability.

---

**Caution!** Do not create new driver operation types on this tab. Only an experienced Database Administrator should access this tab, as any changes may have a profound impact on the application, and may corrupt the model or data.

---

The Driver Operation Types is an administration feature intended for extending supported driver operations to solve performance issues or unique driver challenges. Its use requires advanced SQL knowledge, advanced understanding of Database Administration, and advanced understanding of an undocumented feature of Profitability and Cost Management Detailed Profitability applications. Oracle does not recommend the use of this feature unless requested by Oracle in response to a customer service request.

---

**Other Process Types**

Two alternative calculation process types are available for this release of Detailed Profitability:

- Oracle Database 11g (the default)
- Oracle Database 10g

If the system is configured with Oracle Database 10g, use the Other Process Type tab to select the appropriate calculation process for the database.
Caution! Oracle recommends that only experienced Database Administrators use the Other Process Type tab. DO NOT make any other modifications to the Other Process Type, as they may have a profound impact on the applications, and may corrupt the model or data.

Depending on the Oracle database version that you are using for Detailed Profitability, use this screen to change the database to the correct version.

To change the Oracle Database version:

1. From EPM Workspace, select Navigate, then Application, then Profitability and then select the application for which you want to modify the Oracle Database version.

2. Under Task Areas, select Calculate, then Manage Calculation, and then the Other Process Types tab.

Note: This tab is only visible if you have been assigned an Administrator user role.

3. Select Dimension Group Synchronize, and then click Edit.

The Define Other Process Type dialog box is displayed.

4. Under Calculation Process, select the appropriate option for the Oracle database:
   - Dimension Group Synchronize (Oracle 11g)
   - Dimension Group Synchronize 10G (Oracle 10g)

5. Click OK to save the change.
About Detailed Profitability Validation

A model must be validated multiple times during its lifecycle:

- After completing Model Data Registration, perform Model Validation for Model Data Registration to ensure that all tables have been properly registered for usage in the model before you proceed to define the rest of the model.
- After the model is built, perform Model Validation to ensure that the model structure conforms to modeling rules.
- After calculating the model, generate Source and Destination Stage Balancing Reports to balance all in and out entries for the model.

The tabs available on the Model Validation screen are read-only, and highlight issues with the Detailed Profitability model structure:

- Model Data Registration
- Drivers
- Calculation Rules
- Unused Drivers
- Missing Driver Assignments
- Assignment Rules

Any errors and missing information are displayed, along with the associated severity. You must correct errors encountered during the model structural validation cycle before you can continue to build or calculate the model.

See these sections to perform the appropriate validation on the model:

- “Detailed Profitability Model Validation Rules” on page 300
- “Validating Detailed Profitability Model Structure” on page 300
Detailed Profitability Model Validation Rules

The model is verified against a set of model validation rules to ensure that the structure is sound before calculating the model. The structure validation checks to ensure these conditions are met:

- Model Data Registration is valid and complete
- Drivers are correctly formed
- Calculation Rules are correct
- All drivers are used
- No driver assignments are missing
- Assignment rules are correct

You must resolve any structural errors before you can calculate the model. Correct any errors, and submit the model for validation again. You may need to correct errors and revalidate several times.

Tip: Sometimes correcting one error may cause another problem, so it is useful to revalidate the model after each correction.

Validating Detailed Profitability Model Structure

The Detailed Profitability model structure must be validated before calculation to ensure all required modeling rules have been applied.

You must click Validate on each tab of the Model Validation screen to evaluate the different components of the application. After the validation for the tab is performed, any errors or warnings are displayed.

Before a model can be successfully calculated, all errors in the model structure must be corrected.

To validate model stages:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.
2. In an open model, from Task Areas, select Validate, and then Model Validation.
3 On the Model Validation screen, select the POV for the model to be validated and then click **Load the POV status**.

4 Click **Validate** on each of the following tabs to perform the validation:
   
   - Select **Model Data Registration** tab to see whether any column mappings or measures are incorrect. See “Registering Detailed Profitability Model Data” on page 219.
   
   - Select **Drivers** tab to determine whether any errors exist for the drivers. See “Defining Detailed Profitability Drivers” on page 253.
   
   - Select **Calculation Rules** tab to view any invalid calculation rules. See “Working With Calculation Rules” on page 212.
   
   - Select the **Unused Drivers** tab to view any unassigned drivers in the model and to determine whether these drivers should be part of an assignment. See “Working with Detailed Profitability Drivers” on page 264 to assign the driver, if required.
   
   - Select the **Missing Driver Assignments** tab to view all source intersections that are missing driver selections. See “Working with Detailed Profitability Drivers” on page 264.
   
   - Select the **Assignment Rules** tab to view any invalid assignment rules. See “Working with Detailed Profitability Assignment Rules” on page 276.

When the validation is complete, the screen is updated to reflect the results.

5 Correct all error or warning conditions on each tab.

6 When all errors on all tabs are corrected, repeat the model validation from step 1 until no errors are detected.
When the validation is successful, calculate the model. See Chapter 16, “Calculating Detailed Profitability Models”.
Creating Detailed Profitability Reports

In This Chapter

- Detailed Profitability Stage Balancing Report ......................................................... 303
- Detailed Profitability Level 0 Contribution Report ..................................................... 306
- Running Detailed Profitability System Reports ........................................................ 308

You can create Stage Balancing and System reports, described in the listed topics.

**Detailed Profitability Stage Balancing Report**

After calculating the model, use the Stage Balancing Report to validate the results by balancing input values to account for any unassigned costs.

To generate the Stage Balancing report, the following conditions must be satisfied:

- Data must be loaded
- Model data must be registered and calculated

The Stage Balancing structure provides the following information:

<table>
<thead>
<tr>
<th>Measure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage Name</td>
<td>The name of the Source stage is displayed.</td>
</tr>
<tr>
<td>Input</td>
<td>This value is the Summary of the values associated with the Input balancing measure.</td>
</tr>
<tr>
<td>Total Output</td>
<td>The sum of all values assigned from the Source Stage.</td>
</tr>
<tr>
<td>Idle</td>
<td>Input that is not assigned to the destination is the IdleCost value. Calculated results for IdleCost are assigned depending on the driver type:</td>
</tr>
<tr>
<td></td>
<td>- For ratio-based drivers, if Allow Idle is selected, IdleCost is generated using the formula IdleDriverValue/OverrideTotalDriverValue.</td>
</tr>
<tr>
<td></td>
<td>- For rate-based drivers, IdleCost is generated if the sum of allocates values is less than the source object's input value.</td>
</tr>
<tr>
<td>OverDriven</td>
<td>The OverDriven amount displayed on the Stage Balancing Report is the sum of all the calculated OverDriven values.</td>
</tr>
<tr>
<td></td>
<td>This amount is associated with the OverDriven balancing measure.</td>
</tr>
</tbody>
</table>
### Unassigned Values

The formula for the Unassigned values is equal to the following calculation:

\[ \text{Total IN} - \text{Total OUT} - \text{Idle} + \text{OverDriven} \]

For additional information on the Stage Balancing measures, see the following sections:

- “Idle Capability” on page 304
- “OverDriven Values” on page 304
- “Unassigned Values” on page 305
- “Generating the Detailed Profitability Stage Balancing Report” on page 305

### Idle Capability

The terms *full capability* or *capacity* indicate that all model resources are being fully used to perform a task or assignment. The terms *idle capability* or *idle capacity* indicate that some model resources are not being fully utilized. To maximize the use of resources, or to monitor inefficiencies, such as machine downtime, consider tracking idle capability.

Idle capacity is created by either Rate-Based or Ratio-Based drivers.

- Rate-Based drivers automatically create Idle and OverDriven where appropriate.
- Ratio-Based drivers only create Idle capacity when Allow Idle is checked.

You set the ability to calculate and report idle capability when you create or modify a driver, by selecting the Allow Idle option, and then selecting an Override Total Driver Value Measure to allocate the value. The Override Total Driver Value Measure is the location of the values that become the denominator of the Ratio for the distribution allocation.

See “Defining Detailed Profitability Drivers” on page 253.

To view Idle Cost on the Stage Balancing Report, see “Generating the Detailed Profitability Stage Balancing Report” on page 305.

### OverDriven Values

Profitability and Cost Management drives values from the source to the destination, using a combination of assignments that govern where to drive the value, and drivers that determine the amount that is being processed.

It is possible to drive more than the actual amount to the destinations. The OverDriven value is the amount that exceeds, or is “over” the actual amount that was driven from the source to the destination. OverDriven is reported as part of the Measures dimension.

To view OverDriven values on the Stage Balancing Report, see “Generating the Detailed Profitability Stage Balancing Report” on page 305.
Unassigned Values

All values within a model should be assigned to a specific activity, product, account, and so on; however, some amounts may remain unallocated. These values are reported as Unassigned.

Depending on how a model is created, these unassigned values may be expected and acceptable, or they may represent an error in allocation that should be corrected. You need to determine where these amounts should be allocated. The Unassigned value is reported as part of the Measures dimension.

To view Unassigned values on the Stage Balancing Report, see “Generating the Detailed Profitability Stage Balancing Report” on page 305.

Generating the Detailed Profitability Stage Balancing Report

To generate stage balancing reports:

1. Ensure the following conditions have been satisfied:
   - Model Data is registered
   - Model Data is loaded
   - Model is calculated successfully

2. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application that you want to view.

3. In an open model, from Task Areas, select Validate, and then Stage Balancing.

4. On the Stage Balancing screen, select the POV for the model, and then click Load the POV status.

5. Select the type of Stage Balancing Report that you want to generate:
   - Click Stage Summary to view the summary of the balancing activity for the entire source stage.
   - From the Source Measures Dimension Members Selector, select a Source Measure to view the summary of the balancing activity for the selected Source Measure.

6. Click Run to generate the report.

7. Review the report, using one or more of these validations to verify the results:
   - Total Input – Total Output– Idle + OverDriven = Unassigned Values
   - Sum of all monetary or balance data loaded to the source stage = Input
   - Sum of unassigned values + Idle - OverDriven = Input
You can also launch some predefined Smart View integrations from the Stage Balancing screen. The launch data points are represented as hyperlinks in the Stage Balancing screen and present values that have been contributed from one stage to another. You can drill down further on input or allocation data. For example, you could drill-down into Unassigned costs after an allocation run, or to examine input data that was used in the same run.

8 Optional: To print the report, from the browser menu, select File, and then Print.

Adding Destination Measures to the Report

Optionally, you can select Destination Measures from a popup dialog member selector. In that case, a Destination Measures table is added, which displays the summed values of measures from the destination table (Figure 9 on page 306).

Figure 9 Detailed Profitability Stage Balancing Report with Destination Measures Table

The first column shows all the measures selected. Their order enables the table to read like a Profit and Loss statement since the computations for calculated measures can follow the sequence of measures from top to bottom.

The second and third columns isolate the values of measures that were targets or assignments and calculated measures. This enables users to compare the sum of assigned values more easily to the stage balancing summary section. With this feature, users can emulate the stage to stage balancing available in Standard Profitability.

Detailed Profitability Level 0 Contribution Report

A typical Detailed Profitability application may have one or more overlapping dimensions between the source and destination stages. For example, in the BksDP30 sample model, note that the Customer and the Product dimensions are used in both the Source stage and in the Destination stage.

This results in a Level 0 Contribution view (for example, HPMD_BKSDP20_LEVEL_0_CONTRIB_V for the sample model) which has two columns for each of these overlapping dimensions – one for the source context and one for the destination context.
In order to use this view to successfully generate a contribution report in Oracle BI EE, you must know how to properly register the system-generated dimension reporting views within the Physical Layer in OBIEE, so that each can join properly to both sets of dimension columns in the Level 0 Contribution view. Within the physical layer, you must create two alias tables from the Level 0 view to the same dimension. For example, Level 0 view must join to the Customer dimension once for the Source (SRC) and once for the Destination (DEST).

The following instructions use the hierarchy dimension view from the Customer dimension in the sample model as an example of how to do this.

## Generating the Level 0 Contribution Report

To generate a Level 0 Contribution Report:

1. Log in to Oracle Business Intelligence Enterprise Edition, and navigate to the Profitability and Cost Management repository.
2. In the Physical Layer, right-click a dimension view that you want to use in the report, then select New Object, and then Alias.
   
   For example, click HPMD_BKSDP20_CUSTOMERS_HIER_V in the Sample Model as the model for the Alias table.
3. Enter a name for the new Source Alias table (such as HPMD_BKSDP20_SRCCUST_HIER_V), and then click OK.
4. In the Physical Layer, right-click the dimension view again, then select New Object, and then Alias.
5. Enter a name for the new Destination Alias table (such as HPMD_BKSDP20_DESTCUST_HIER_V), and then click OK.
6. In the Physical Layer, select the following objects, then right-click and select Physical Diagram – Selected Objects Only:
   
   HPMD_BKSDP20_SRCCUST_HIER_V
   HPMD_BKSDP20_DESTCUST_HIER_V
   HPMD_BKSDP20_LEVEL_0_CONTRIB_V
7. In the diagram, make physical joins between each of the new Alias tables and the Level 0 Contribution view.
8. Drag the Source and Destination Alias tables to the Business Model Layer.
9. In the Presentation Layer, modify the Level 0 Report to include columns from each of the new Alias tables.

For additional information on working with Physical Tables and Aliases, see the Oracle Fusion Middleware Metadata Repository Builder’s Guide for Oracle Business Intelligence Enterprise Edition 11g Release (11.1.1), Chapter 7: Working with Physical Tables, Cubes and Joins.
Running Detailed Profitability System Reports

Following calculation of a Detailed Profitability model, you can run the following system reports:

- **Dimension Statistics** — Number of dimension members, number of level 0 members, and number of hierarchy levels for each dimension in the current application.

- **Execution Statistics** — Runtime statistics collected for the selected Allocation Calc - Standard job following the end of the job

➢ To generate a Detailed Profitability system report:

1. In an open Detailed Profitability model, in the Reporting task area, select System Reports.
2. In the System Reports screen, select one of the following for each setting:
   - **Report Name** — Dimension Statistics, Execution Statistics
   - **Output Type** — PDF (Adobe PostScript), Microsoft EXCEL, Microsoft WORD, XML, HTML
3. Enter the Job Id from the Job Library task area for Execution Statistics reports.

  **Note:** Dimension Statistics reports do not require Job Id or other parameter information.

4. Click Run.

5. Indicate whether to open or save the report.

See these sections to review report examples:

- Figure 10 on page 309
- Figure 11 on page 309

Detailed Profitability Dimension Statistics Report Example

Dimension Statistics reports show the number of dimension members, number of level 0 members, and number of hierarchy levels for each dimension in the current application. Potential values are possible mathematical combinations that might not all be used (similar to Figure 10 on page 309).
### Detailed Profitability Execution Statistics Report Example

Execution Statistics reports show runtime statistics collected for the selected Detailed Calculation job type following the end of the job (similar to Figure 11 on page 309).

#### Figure 11  Example of a Detailed Profitability Execution Statistics Report

<table>
<thead>
<tr>
<th>Stage</th>
<th>Dimension Name</th>
<th>Dimension Type</th>
<th>Associated Attribute Dimensions</th>
<th>Total Number of Members</th>
<th>Number of Level 0 Members</th>
<th>Intersections</th>
<th>Hierarchy Depth</th>
<th>Last Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage1</td>
<td>ST1_Accounts</td>
<td>Business</td>
<td></td>
<td>100</td>
<td>80</td>
<td>80</td>
<td>4</td>
<td>06/17/2014 21:12:07</td>
</tr>
<tr>
<td>Stage2</td>
<td>ST2_CostCenters</td>
<td>Business</td>
<td></td>
<td>400</td>
<td>320</td>
<td>320</td>
<td>2</td>
<td>06/17/2014 21:12:07</td>
</tr>
</tbody>
</table>
Monitoring Detailed Profitability Job Status

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<th>Page</th>
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</thead>
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<tr>
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<td>313</td>
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<tr>
<td>Viewing Detailed Profitability Taskflow Information</td>
<td>315</td>
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<tr>
<td>Viewing Detailed Profitability Taskflow Status</td>
<td>316</td>
</tr>
<tr>
<td>Viewing Detailed Profitability Task Details</td>
<td>318</td>
</tr>
<tr>
<td>Scheduling Detailed Profitability Taskflows</td>
<td>319</td>
</tr>
</tbody>
</table>

Job Library

Subtopics

- Job Library Job Types
- Viewing the Job Library

The Job Library lists all currently submitted or scheduled jobs for all models and all users for Detailed Profitability applications.

Click any column in the Job Library to sort the jobs by Start Date and Time, Application Name, Job Type, Comment, User, Task Flow ID, or Status Message. Click again to reverse the sort.

Job Library Job Types

There are four job types that may be processed, and the Job Details information on the Job Library changes, depending on the Job Type:

- **Allocation Calc**
  - Job Details: Processing Options, custom scripts, and model and data POV's
  - Job Finished: Date and time that the job is finished
  - ODL Task ID

  See the Manage Calculation tab in “Managing Detailed Profitability Calculations” on page 293.

- **Apply Bulk Edit**
Job Details: POV and Edit Selections (Source rules and Destination drivers or Destination rules)

Job Finished: Date and time that the job is finished

ODL Task ID

See “Working with the Bulk Editor” on page 269.

- **Copy POV**

  Job Details: Copy POV, showing the Source and Target POVs that were selected, and the Copy Configuration

  Staging Table Selections for the import

  Job Finished: Date and time that the job is finished

  ODL Task ID

See “Copying POVs” on page 245.

- **Import Staging Tables**

  Job Details: Import configuration

  JDBC Connection

  Staging Table Selections for the import

  Job Finished: Date and time that the job is finished

  ODL Task ID

See “Importing Detailed Profitability Staging Tables” on page 248.

### Viewing the Job Library

To view the Job Library:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application for which jobs have been submitted.

2. In an open model, from Task Areas, select Jobs Status, and then Job Library.

3. Under Job Listing, view the information for each job:

   - **Start Date/Time** displays the date and time on which the job was submitted or is scheduled to be run.

   - **Application** displays the name of the application for which the task is being run.

   - **Job Type** displays the type of task that is being performed. See “Job Library Job Types” on page 311

   - **Comment** shows a user-entered note or details about that specific job, such as Initial Run, Bulk Edit or Add Drivers. The Comment is entered when the task is submitted.

   - **User** identifies the User ID of the individual who submitted the task for processing.
• **Task Flow ID** is the system-generated task ID for the specific task, displayed in the format 
  `<application name>:<task name><generated taskflow number>`.
  
  For example, the generated taskflow number may be displayed as
  `Demo04_RunCalcs_D20111103T183447_fbe`, where `Demo04` is the application name,
  `RunCalcs` is the task, and `D20111103T183447_fbe` is the generated taskflow instance
  ID. See “Managing Detailed Profitability Taskflows” on page 313.

• **Status** displays a message about the current state of the taskflow, such as Running,
  Success or Failure.

• **Errors**

• **Warnings**

4 **Optional:** Under **Job Details**, review the job options that were used for the execution of the highlighted
  job. The format of the details changes depending on the job type highlighted. The Processing Options,
  Custom Scripts, and POV options are displayed as applicable.
  
  For additional information, see “Job Library Job Types” on page 311.

5 **Optional:** Use the Find text box at the bottom of each column to locate a job by entering text in the Find
  field attached to the column in which it resides. See “Using the Find Feature” on page 40.

6 **Under Job Finished,** view the date and time that the highlighted task was completed.

7 **Under ODL Task ID,** view the ID for the highlighted job to assist in locating error or warning messages
  in `hpcm.log`.
  
  In the `hpcm.log` file, use Find and the ODL Task ID to locate the start of the logging detail
  text for the selected job. After locating the start of the log entries, you can search down to
  find an “ERROR” in the file.

8 **Optional:** If required, click **Stop Job** to end the highlighted task in Running state.

**Caution!** While the task flow stops quickly after the button is pressed, activities that affect
results may require additional time to ensure that the state of the data is
consistent.

For detailed instructions on using EPM Workspace taskflows, see the *Oracle Hyperion

---

**Managing Detailed Profitability Taskflows**

Taskflows automate business processes, in whole or part. Tasks are passed from one taskflow
participant to another, according to a set of procedural rules. In Detailed Profitability and Cost
Management, taskflows are created in these circumstances:

• Staging tables are imported

• POV data is copied

• Calculations are run
Bulk Edit feature has been used to create or remove model elements

- Cube Deployment
- Create Application
- Duplicate Application
- Pre Update Analysis
- Update Dimensions
- Delete Application

**Note:** Taskflows are not available when validating the model contents or structure.

A taskflow ID is automatically generated for each task. Every time you run a task, a new task ID is generated. A taskflow can include one or more steps. Each taskflow step represents one action in Profitability and Cost Management.

When you initiate a taskflow, a taskflow step is created and a taskflow ID is assigned (for example, 'Demo04_RunCalcs_D20111103T183447_fbe'). The ID enables you to monitor the progress of the taskflow. A new Taskflow ID is created each time you initiate a taskflow instance. If a taskflow is interrupted or restarted, it always begins again at step 1.

Each taskflow step is executed in sequence, beginning with the first step. When the results for one step are completed, the next step is initiated. Status is only complete when all steps in the taskflow have been performed.

Use the Job Status options under Task Areas to view the taskflow status and details, or to schedule the running of the taskflow on a one-time or recurring basis.

To access the Job Status monitoring option, the following conditions must be satisfied:

- Profitability and Cost Management must be configured to use external authentication and Shared Services functionality. See the *Oracle Enterprise Performance Management System Installation and Configuration Guide*.

- Taskflow users must be assigned one of the following Shared Services roles to perform taskflow operations:
  - Manage Taskflows—Permits users to create and edit taskflows.
  - Run Taskflows—Permits users to only run and view taskflows. Users with this role cannot create or edit taskflows.

**Note:** Both Shared Services roles are global user roles. Users assigned these roles can either modify or run taskflows for any application and product. See the *Oracle Enterprise Performance Management System User Security Administration Guide*. 
Use these procedures to monitor and schedule taskflows:

- “Viewing Taskflow Information” on page 168
- “Viewing Taskflow Status” on page 169
- “Viewing Task Details” on page 171
- “Scheduling Taskflows” on page 172

**Viewing Detailed Profitability Taskflow Information**

The Taskflow Listing Summary shows the existing taskflows for the selected application and provides basic details for each one.

To view taskflow information:

1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the application for which jobs have been submitted.

2. In an open model, from **Task Areas**, select **Jobs Status**, and then **Manage Task Flow**.

   The Summary displays this information for each taskflow that exists for the selected application:

   - **Application** displays the application name.
   - **Taskflow** displays the generated taskflow number in the format `<application name>:<task name><generated taskflow number>`.
   - **Created By** displays the ID of the user who created the taskflow.
   - **Description** provides a brief explanation of the task.
3 Optional: Click the radio button beside a taskflow, and then click Schedule Taskflow to schedule the running of the task for a more convenient time or date.

4 Use the Taskflow Listing Summary screen to perform various actions, such as deleting a taskflow or scheduling the run of a taskflow. For detailed instructions on using EPM Workspace taskflows, see the Oracle Hyperion Enterprise Performance Management Workspace User’s Guide.

Viewing Detailed Profitability Taskflow Status

In the Taskflow Status Summary screen, you can view and update the status of existing taskflows. You can also filter the taskflow list to display taskflows with a specified status or date range. A participant ID is created for each generated step in the taskflow. You can drill down on an individual taskflow to view details of the associated participant summary.

To view taskflow status:

1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application for which jobs have been submitted.

2 In an open model, from Task Areas, select Jobs Status, and then Search Process.
3 Select one or more search criteria to locate the taskflow:

a. Under **Status**, select a status of the taskflow:
   
   - Active
   - Done
   - Stopped
   - All

b. Under **Application**, select an Application ID.

c. Under **Taskflow**, select a Taskflow ID.

d. For **Initiated Between**, click **calendar**, and then select a start and end date for the search range.

   **Note:** Depending on the requirements, you may leave all search fields blank to display all taskflows, or make the search as specific as possible to narrow the results.

4 **Click Search.**

The search results are displayed at the bottom of the screen:

- ID (This is the participant ID, which is automatically generated for the taskflow.)
- Application ID
- Taskflow ID
- Initiator of the taskflow
- Time that the taskflow began running
- Current Status of the taskflow
• Description of the taskflow

5 Optional: Click Refresh to update status information.

6 Optional: To end the currently running step of a multistep taskflow, select the checkbox beside the appropriate taskflow, and click Stop.

The taskflow stops when the application returns the results of the selected step. The results for previous steps are not discarded; however, if you rerun the taskflow, it begins at the first step.

7 Optional: To view details of a taskflow and its status, double-click the taskflow name.

The Taskflow Participant Summary is displayed, showing details of the task and its status.

8 Click Cancel to return to the Taskflow Status Summary.

Viewing Detailed Profitability Task Details

You can view the details for an existing taskflow using the Task Details option.

A new task ID is generated each time you run a task.

➢ To view task details:

1 From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application for which jobs have been submitted.

2 In an open model, from Task Areas, select Jobs Status, then Search Task.

3 On My Tasks, select one or more search criteria to locate the taskflow:

   a. Under Status, select a status, such as New, Active, Done, or All.

   b. Under Application, select an Application ID.
c. Under Taskflow, select the generated Taskflow ID.

   **Note:** Depending on the requirements, you may leave all search fields blank to display all taskflows, or make the search as specific as possible to narrow the results.

4 **Click Search.**

   The results of the search are displayed.

5 **Optional:** Use the forward and back arrows to scroll through the results. The current page in the sequence and the total number of pages are displayed.

6 **Optional:** Click Refresh to update status information.

7 **Select a taskflow, and then click View Status.**

   The Taskflow Participant Summary is displayed, showing details of the job and current status for the selected step in the taskflow.

8 **Click Cancel to return to the Job Status screen.**

### Scheduling Detailed Profitability Taskflows

You can schedule the running of a taskflow on a one-time or recurring basis.

**Note:** If you want to schedule the taskflow, you must have selected the “Run Later” option when you created the task.

➢ **To schedule taskflows:**

1 **From EPM Workspace, select Navigate, then Applications, then Profitability, and then select the application for which jobs have been submitted.**

2 **In an open model, from Task Areas, select Job Status, and then Manage Task Flow.**

   The Taskflow Listing Summary screen displays the following information for each existing taskflow.

   - **Application** displays the application name.
   - **Taskflow** displays the generated taskflow number in the format `<application name>:<task name><generated taskflow number>`.
   - **Created By** displays the ID of the user who created the taskflow.
   - **Description** provides a brief explanation of the task.

   **Note:** A new task ID is generated each time you run a task.
3. Select the checkbox beside the taskflow for which you selected the “Run Later” option when creating the task.

4. Click Schedule Taskflow.
5 **Under Starting Event, select Scheduled Event.**
   The Server Date is displayed.

6 **Under Start Date, click calendar** to select the date on which the taskflow is scheduled to run.

7 **Under Start Time, use the drop-down lists to select the time at which the taskflow is scheduled to begin.**
   You must select the hour and minutes, and whether the runtime is set for AM or PM.

8 **Optional:** To schedule jobs to run on a recurring basis:
   a. Select **Recurrence.**
   b. Under **Recurrence Pattern**, select a frequency, such as Monthly, Weekly, and so on.
   c. Select a recurrence pattern, and enter the required variables, as indicated in the following examples:
      - Day \( x \) of every \( x \) Month(s)
      - The \( x \) day of Every \( x \) Month(s)

9 **Optional:** To schedule the taskflow to run until it is manually cancelled or deleted, select **No End Date.**

10 **Optional:** To schedule the taskflow to run a specified number of times, select **End After \( x \) Occurrences.** In the text box, enter the number of times the job is to be run.

   **Note:** This option is available only if a Recurrence schedule of Daily or Weekly is selected.

11 **Optional:** To run the taskflow until a specified date, select **End Date**, and select the date and time of the final run:
   a. Under **End Date**, click **calendar** to select a date.

      **Note:** Calendar is displayed when the End Date option is selected.
   b. Under **End Time**, select the time of the last run. You must select the hour, minute, and whether the time is set for AM or PM.

12 **Click Save to save the scheduled job.**
   The taskflow runs as scheduled.
Part IV

Working with Management Ledger Applications

In Working with Management Ledger Applications:

- About Management Ledger Models and Scenarios
- Dimensions in Management Ledger Profitability Applications
- Managing Management Ledger Models
- Working with Management Ledger Allocations
- Validating Management Ledger Models
- Deploying and Calculating Management Ledger Models
- Monitoring Management Ledger Job Status
- Working with Management Ledger Queries and Reports
Management Ledger Model Elements

A Management Ledger model is a representation of part or all of an organization, and contains costs and revenue categories that are similar to the organization’s chart of accounts and general ledger. Profitability and Cost Management models enable you to accurately trace the processes and activities that contribute to costs and revenue within the organization.

A Management Ledger model is made up of the following elements:

- Dimensions, which are data categories that are used to organize business data for retrieval and preservation of values.
- Drivers that determine how cost or revenue source values are calculated and allocated. Selected drivers are applied to the entire dimension, a portion of the hierarchy, a single member, or even a single intersection.
- Financial cost and revenue data, which is imported to Essbase directly through a data file, or manually entered through Profitability and Cost Management.


Together these elements organize the allocation points in the model into a logical flow. Careful modeling can capture the actual processes and activities, enabling you to realistically allocate costs and revenues.

The business, system, and POV dimensions are created in Performance Management Architect or Profitability Application Manager and deployed to the Profitability and Cost Management relational database. Rule sets and rules are created in Profitability and Cost Management.

After you create a model that reflects the current status of the organization, you can use the Copy POV feature to create alternate versions of the base model. The scenarios, or what-if scenarios, provide a risk-free method to predict the potential profitability of new opportunities and strategies, and to evaluate alternatives. or changes in the model.
Steps to Design and Create Management Ledger Models

The creation of a Profitability and Cost Management Management Ledger model requires the following steps:

1. Define the requirements and the allocation methods required before creating the model in Profitability and Cost Management.

   You should establish the business requirements for the model and the reporting expectations. Using pencil and paper, discussion among stakeholders, flowcharting, diagramming software and other tools, draft the conception of what the model needs to contain in order to accomplish the goals. In some instances, it may be useful to identify the results you want to achieve first, and then work backwards to formulate the best strategy to meet these goals.

   When designing the Essbase outline, carefully define the reporting objectives and requirements. The effort expended in designing the outline is rewarded when generating reports. For information on creating the database outline, see Oracle Essbase Database Administrator’s Guide.

2. Define dimensions (such as Rule, Balance, business dimensions, POV dimensions, and so on) using Performance Management Architect or Profitability Application Manager to build the main objects within the model. See Chapter 21, “Dimensions in Management Ledger Profitability Applications.” For instructions on selecting dimensions, see the Oracle Hyperion Profitability and Cost Management Administrator’s Guide. For alternate methods of creating dimensions, see Appendix A and B of the Oracle Hyperion Profitability and Cost Management Administrator’s Guide.

3. Identify drivers to specify how to calculate cost and revenue data. These will be added as you define rules (Chapter 23, “Working with Management Ledger Allocations”).

4. Create calculation rule sets and rules as described in Chapter 23, “Working with Management Ledger Allocations.”.

5. Validate the Management Ledger model structure to ensure that the model structure conforms to validation rules (Chapter 24, “Validating Management Ledger Models”).

6. Create the Essbase database, and populate the database with cost and revenue data, through Profitability and Cost Management or directly into the Essbase database. See the Oracle Hyperion Profitability and Cost Management Administrator’s Guide.


8. Calculate the model (Chapter 25, “Deploying and Calculating Management Ledger Models”).

9. Report on the calculated results, using reporting tools such as Financial Reporting, Smart View, or Web Analysis and system reports within Profitability and Cost Management. You can use the trace allocation feature to visually follow the flow of funds throughout the entire model, either forward or backward. See Chapter 27, “Working with Management Ledger Queries and Reports.”
Management Ledger Workspace

Accessed from EPM Workspace, the Profitability and Cost Management workspace contains two main areas (Figure 12 on page 327):

- Use the **Task Area** pane to navigate among the processes required to build, validate, and calculate the model, and to report results,
- Use the **Contents** pane to view task information, enter or modify data, and perform tasks associated with the creation and maintenance of a model and its data.

The Profitability and Cost Management workspace includes these items:

1. The Performance Management Architect main menu at the top of the window displays the common EPM Workspace menu options (**Navigate**, **File**, **View**, and **Tools**), and the Profitability and Cost Management main menu options, including **Model**, **Validate**, **Reporting**, **Calculate**, **Program**, **Job Status** and **Help**.
2. **Application Name** tab shows the name of the currently active application.
3. The **Task Area** list is used to select the tasks required to build, modify, validate model structure, and calculate models. You can also generate reports, or follow the allocation chain throughout a model.
Note: When you change a Task Area, the Point of View selection that exists in the current task is retained. This feature enables you to move from screen to screen without being required to reselect the POV. The POV selection state remains the same until it is changed by the user and the POV "refresh" icon is clicked.

4. The contents pane displays the screen for the currently selected task, such as Model Summary.
In This Chapter

- About Management Ledger Dimensions ............................................................... 329
- Management Ledger System Dimensions ............................................................. 330

About Management Ledger Dimensions

Profitability and Cost Management uses dimensions and members created in Performance Management Architect or Essbase and Profitability Application Manager to represent many of the structural elements of the business model.

A dimension type is a dimension property that enables the use of predefined functionality. The specific characteristics of the dimension type manage the behavior and functions of the dimension. Because Profitability and Cost Management, Performance Management Architect and other EPM Workspace products may share certain dimension types, you can leverage the functionality of dimensions for different products.

See these sections for important information about Profitability and Cost Management dimensions that are common to all application types:

- “About Profitability and Cost Management Dimensions” on page 27
- “Common Dimension Types” on page 29
  - “Profitability and Cost Management Business Dimensions” on page 30
  - “Profitability and Cost Management POV Dimensions” on page 30
  - “Profitability and Cost Management Attribute Dimensions” on page 31
  - “Profitability and Cost Management Alias Dimensions” on page 31

“Management Ledger System Dimensions” on page 330 describes system dimensions that are specific to Management Ledger applications and models:

Management Ledger Dimension Requirements

The database outline provides the data structure for the model, and includes calculation instructions and formulas. Dimensions in the Essbase outline are hierarchical. Data is stored at dimension intersections. The following are Management Ledger Profitability dimension requirements:
Applications or models must contain at least one POV dimension and can have up to four POV dimensions.

Applications must contain one and only one system dimension named Rule.

Users can edit and add more members to the Rule dimension. For example, R1001 through R1500. Optionally, they can also trim that dimension. The Calculation Programs member in the Rule dimension is not editable.

Applications must contain one and only one system dimension named Balance.

System dimension members in the Balance dimension cannot be edited. Users can, however, add alternate hierarchies.

There should be at least one business dimension with no duplicate members.

Caution! Members must not be repeated within the same dimension. However, members can be repeated across several dimensions.

Figure 13 on page 330 shows a sample Essbase outline of a Management Ledger Profitability database, shown on the Essbase console.

Management Ledger System Dimensions

Subtopics

- Management Ledger Rule Dimension
- Management Ledger Balance Dimension

Management Ledger applications must contain two system dimensions: Rule and Balance. These system dimensions are populated from Performance Management Architect or Essbase into Profitability and Cost Management. For additional information about the Rule and Balance dimensions, consult the system documentation.
dimensions, see the listed sections and the *Oracle Hyperion Profitability and Cost Management Administrator's Guide*.

For detailed instructions on creating and maintaining the dimensions and members, see the *Oracle Hyperion Enterprise Performance Management Architect Administration Guide* and the *Oracle Essbase Database Administrator’s Guide*.

**Management Ledger Rule Dimension**

The Rule dimension contains definitions of calculation rules for Management Ledger applications. *Figure 14 on page 331* shows the outline of the Rule dimension in the Essbase console. This is an illustration of the Calculation Rules members.

![Figure 14 The Management Ledger Rule Dimension Outline](image)

Users can delete and add rules to Calculation Rules, but the only rule they can apply is NoRule. All the others are reserved for system use.

Figure *Figure 13 on page 330* shows an additional member, Calculation Programs. This member is controlled by the system and is not editable by users.

**Management Ledger Balance Dimension**

*Figure 15 on page 332* shows the outline of the Balance dimension in the Essbase console.
Users can add data to the Input member of Net Balance. The remainder of the members reflect inputs and outputs determined by rule sets and rules. Adjustments are the result of driver calculations, allocations are the result of rule allocations, and offsets result from rule offset definitions. See Chapter 23, “Working with Management Ledger Allocations,” for information about rule sets, rules, and their definitions.

Data held in intersections with these members is visible in the Rule Balancing screen ("Viewing the Rule Balancing Task Area" on page 381).
Managing Management Ledger Models

In This Chapter

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Working with the Management Ledger Model Summary ............................................. 333
Working with Management Ledger Points of View .................................................... 337
Importing Management Ledger Artifacts ............................................................... 344

About Managing Management Ledger Models
The Managing Models options are used to build the top-level structure of a model, and to control model preferences and connections.

From the Model Summary, you can view system information and set model-level preferences.

Points of View (POVs) are used to create various versions of a model; for example, to hold budget versus actual figures, or to play scenarios to measure the impact of various changes on the bottom line.

See these sections to manage the models:

- “Working with the Management Ledger Model Summary” on page 333
- “Working with Management Ledger Points of View” on page 337
- “Importing Management Ledger Artifacts” on page 344

Working with the Management Ledger Model Summary

Subtopics

- Reviewing Management Ledger Model System Information
- Reviewing and Setting Management Ledger Model Level Preferences

The Model Summary displays details of the system information for the selected model and enables you to modify model level preferences.

The Model Summary contains these tabs:

- System Information (“Reviewing Management Ledger Model System Information” on page 334)
Model Level Preferences ("Reviewing and Setting Management Ledger Model Level Preferences" on page 335)

Reviewing Management Ledger Model System Information

The **System Information** tab provides detailed information for the selected model, including the relational database, Essbase connections, authorized users and associated system components. Most of the system information is read-only; however, you can enter or modify the names for the application and database.

To access the System Information tab:

1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select the model that you want to view.
2. From **Task Areas**, select **Manage Model**, and then **Model Summary**.

The **System Information** tab is displayed (Figure 16 on page 334) with contents described in Table 16 on page 334.

Figure 16  Management Ledger Model Summary, System Information Tab

<table>
<thead>
<tr>
<th>Tab Area</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profitability Database Information</td>
<td>Name of the relational database server and the database in which the model data resides. The Schema version being used with the selected application is also displayed.</td>
</tr>
<tr>
<td>Tab Area</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| User Information         | User ID for the user who is authorized to access the Profitability and Cost Management database, and all associated security roles for that user.  
**Note:** Ensure that this user has been granted access to the Essbase databases and the application. See the Oracle Hyperion Profitability and Cost Management Administrator's Guide. |
| System Components Information | Details for each component in the installation, as follows:  
- **System** displays the name of the EPM component.  
- **Server** displays the name of the cluster or server hosting that component.  
- **HTTP Port** displays the port being used by the component.  
- **HTTPS Port** displays the secure port being used by the component, if available.  
- **Version/Build** displays the version and build number for the listed component.  
You can sort the columns by clicking any column header. The System and Server columns are sorted alphabetically, and the Ports and Version/Build columns are sorted numerically. |
3. Review the Application Type—Management Ledger—and Application Source (either EPMA or Native Application (for Profitability Application Manager), depending on which tool was used to create the original application in Essbase).

The application type is selected when the application is created and cannot be changed.

4. Under Essbase Information, enter Essbase connection information for the model. The required information is described in Table 17 on page 336.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cluster</td>
<td>Select the logical name of the Essbase server that provides the connection to the Essbase database. This name may point to a clustered or non-clustered Essbase server.</td>
</tr>
<tr>
<td>Connection Type</td>
<td>Select the type of connection:</td>
</tr>
<tr>
<td></td>
<td>- Embedded</td>
</tr>
<tr>
<td></td>
<td>- APS</td>
</tr>
<tr>
<td></td>
<td>See the Oracle Hyperion Provider Services Administration Guide.</td>
</tr>
<tr>
<td>APS URL</td>
<td>Activated only if APS is selected as the Connection Type</td>
</tr>
<tr>
<td></td>
<td>Select the URL for the APS that represents the Logical Web Application (LWA) of the server on which Provider Services is running.</td>
</tr>
<tr>
<td></td>
<td>The available APS servers are registered in Shared Services registry during configuration.</td>
</tr>
<tr>
<td></td>
<td>By default, the APS URL is <a href="http://localhost:13080/aps/JAPI">http://localhost:13080/aps/JAPI</a>.</td>
</tr>
<tr>
<td>Calculation Application</td>
<td>Enter the desired ASO application name for the model's deployed Essbase database (limited to 7 characters).</td>
</tr>
<tr>
<td>Calculation Database</td>
<td>Enter the name for the model's deployed Essbase database (limited to 7 characters).</td>
</tr>
</tbody>
</table>
Working with Management Ledger Points of View

Subtopics

- About Management Ledger POVs
- Management Ledger POV Dimensions
- Managing Management Ledger Profitability POVs
- Viewing the Management Ledger Points of View Manager Screen
- Adding Management Ledger POVs
- Modifying the Management Ledger POV State
- Copying Management Ledger POVs
- Clearing Selected Artifacts from Management Ledger POVs
- Deleting Management Ledger POVs and All Artifacts

The Point of View (POV) for a model provides a specific view of model information for a selected time period. For example, POV dimensions can include year, period, scenario, and version. Members for POV dimensions are user-defined, and can provide a rich array of POV combinations for modeling and what-if analysis.

Points of View are managed within the EPM Workspace tab for each model. See the listed sections for detailed information about POVs.

About Management Ledger POVs

You must have at least one POV dimension, and you can have up to four. Users define the POV dimensions and their names. Calculations are performed using the specific data and calculation rules of that POV for different months or situations.

A typical POV includes the Year, Period, and Scenario. The first step for almost every activity in Profitability and Cost Management is the selection of a POV.

**Note:** Calculation rules in Management Ledger models are POV-specific. For a calculation rule or rule set or global context definition to exist within a POV, there must be a unique definition of that artifact within the POV.

A model can be edited only if the POV is set to “Draft” status (“Modifying the Management Ledger POV State” on page 340). You can modify the POV to reflect new drivers, criteria, or members, enabling you to create alternative scenarios. By comparing these scenarios, you can evaluate how changes affect the processes or bottom line.

You can also create separate versions of the same POV to monitor the impact of changes to the model, or track different versions of the same model.
Management Ledger POV Dimensions

A Point of View (POV) dimension is used to present a specific version or perspective of the model. Each model requires at least one dimension to be designated as a POV dimension. The POV dimensions can be whatever is required for the particular model. The following list represents some common sample POV dimensions:

- **Period** — Enables you to analyze strategies and changes over time. Because a model can be based on any unit of time (quarters, months, annual, years, and so on), you can analyze strategies over time, and monitor inventory or depreciation. For detailed instructions on creating time dimensions, see the Oracle Essbase Database Administrator’s Guide.

- **Year** — Identifies the calendar year in which the data has been gathered

- **Scenario** — Identifies a version of the model for a specific time period and set of conditions

Version Dimension

Using a specific POV, you can create a POV version that enables you to maintain separate versions of the same POV to monitor the impact of changes to the model, or track different versions of the same model.

Use the Version dimension for the following tasks:

- Create multiple iterations of a model, with slight versions

- Model possible outcomes based on assumptions, or “what-if” scenarios to determine best or worst case scenarios

- Facilitate target setting

By modifying different elements within the Version dimension, you can examine results of changes, without modifying an original model.

Managing Management Ledger Profitability POVs

A POV displays a particular version of a model for a selected snapshot, such as year, period, scenario, and version.

When a new POV is added, the status is automatically set to “Draft” so the POV can be edited.

At least one POV dimension is required for a model; however, you can create multiple POV combinations for a single model. A selected POV information can be saved as an EPM Workspace user preference. You can also copy a POV, to begin a model for a new reporting period or a different scenario. See “Copying Management Ledger POVs” on page 341.

The POV dimension defined for an application determines the potential POVs available for a model, but all POVs are not automatically available for assignment or data input. You cannot assign drivers or load data for a POV until it has been added to the model.

Calculation rules must be specified for each POV combination.

Use the following procedures to work with POVs:

- “Viewing the Management Ledger Points of View Manager Screen” on page 339
Viewing the Management Ledger Points of View Manager Screen

The Points of View Manager screen enables you to create, modify, and delete POVs in Management Ledger applications.

To display the Management Ledger Points of View Manager screen:

1. In an open model, from Task Areas, select Manage Model, and then Points of View Manager.

   The Points of View Manager screen lists all existing POVs.

   ![Management Ledger Points of View Manager Screen](image)

2. Use the drop-down menus and buttons to perform the following actions:

   - **Actions** menu—Create, delete, and copy POVs; change POV states; clear POV configuration artifacts
   - **View** menu—Perform the following actions:
     - **Columns**—Show all or selected dimension columns
     - **Detach** and **Attach** the table of POVs,
     - **Reorder Columns**—Use the arrow controls to move the selected dimension column toward the beginning or end of the POV table
_query_by_example—Select to filter data using Query by Example (QBE),

- Click Query By Example,.
- Enter the first few letters of the target value in one or more QBE fields that appear above each data column.
- Click again.

Only matching members are displayed. To show all members again, follow these steps and clear all fields.

**Note:** Point to a button to identify its action.

**Adding Management Ledger POVs**

You can add a POV to view the information and calculations for a model for a selected snapshot of the model, such as a year, period, scenario and status.

The values of the parameters available for a model are set in the Performance Management Architect application.

**Note:** You cannot access a POV from other task windows until the POV has been added in POV Management.

To add POVs:

1. In an open model, from Task Areas, select Manage Model, and then Points of View Manager (Figure 18).
2. Click or select Actions and then Create Point of View.
   - The Create Point of View dialog box is displayed.
3. Select the parameters in the model to identify the new POV.
   - Because this is a new POV, the Year and Period parameters are offered and State is set automatically to Draft to enable you to build and edit the model.
4. Click OK.
   - The POV is added to the list.

**Modifying the Management Ledger POV State**

When a model is created, its status (State) is set to Draft. This indicates that the model can be viewed and edited. When the model is final, change the POV state to ensure it cannot be modified. The status is not an Essbase dimension.

The POV state can be set to one of the following: Draft, Published, or Archived.
Only the POV status can be changed. To modify any other parameters, you must create a new POV.

To change the POV state:

1. In an open model, from Task Areas, select Manage Model, and then Points of View Manager (Figure 18).
2. Select a POV to modify.
3. Select Actions, and then Change Point of View State, 🆓.
4. Under State, select the new status:
   - Draft — Build or edit the model, and generate dynamic reports.
   - Published — View the model, and generate dynamic reports
   - Archived — View the model and generate dynamic reports.

You can change the state back to Draft at any time to edit the model.

**Note:** If you modify the POV, only the state is changed. You are no longer be able to calculate the model if the status has been set to “Published” or “Archived.”

5. Click OK.

**Copying Management Ledger POVs**

You can copy a POV to provide a starting point for a new model or scenario, or to create what-if scenarios for an existing model.

For example, you can begin a period by copying driver selections and assignments from the previous period, or you can create seed data for a forecast scenario by copying data from an actual scenario.

To copy POVs:

1. In an open model, from Task Areas, select Manage Model, and then Points of View Manager (Figure 18).
2. Select the POV to copy.
3. Select Actions, and then Copy Point of View, 🖹.
In the Copy Point of View dialog box, enter POV dimensions for the new POV (Destination). Under Copy Configuration, select the elements of the POV that are to be copied.

Click OK to start copying.

You can check Job Library under Job Status in the Task Area to check the status of the copy.

**Caution!** Depending on the size and complexity of the model, this operation may take a significant amount of time.

When the copy is complete, review the copied information in the new POV.

### Clearing Selected Artifacts from Management Ledger POVs

You can clear or delete selected objects (artifacts) from a POV.

To delete an entire POV, including its associated assignments and driver selections, see “Deleting Management Ledger POVs and All Artifacts” on page 343.

To clear (delete) selected artifacts from a POV:

1. Ensure that no other users require the POV and its contents.
2. In an open model, from Task Areas, select Manage Model, then Points of View Manager (Figure 18 on page 339).
3. Select the POV that contains the artifacts to clear.
4. Select Actions, and then Clear Point of View.
5 Under Model and Data, select the configuration artifacts to clear.

6 Click OK to clear the selected artifacts.

See hpcm.log to view a record of the operation.

Deleting Management Ledger POVs and All Artifacts

Caution! When a POV is deleted, all objects within that POV are deleted, including the associated assignments and driver selections. Oracle recommends that, before deleting a POV, you create a backup directory of the databases in EPM Workspace and Essbase. Contact the administrator for assistance, if required.

To erase data in Essbase, before deleting the POV, perform the “Clear All” function for the selected POV. See “Clearing Selected Artifacts from Management Ledger POVs” on page 342.

To delete POVs and their associated artifacts (such as rules and rule sets):

1 Ensure that no other users require the POV and its contents.

2 Optional: To erase data in Essbase, select Clear All data as described in “Clearing Selected Artifacts from Management Ledger POVs” on page 342.

3 In an open model, from Task Areas, select Manage Model, then Points of View Manager (Figure 18).

4 Select the POV to delete.

5 Select Actions, and then Delete Point of View, ✗.

The Delete Point of View dialog box displays POV dimensions for the selected POV.

6 Click OK to delete the POV.

The POV is removed from the list and is no longer available for selection.
Importing Management Ledger Artifacts

You can enter data definitions and model information directly into Profitability and Cost Management. To facilitate the population of the application, you can import model definitions (artifacts) directly into Profitability and Cost Management using Lifecycle Management. This can include POVs with associated rule sets and rules. For more information, see the Oracle Enterprise Performance Management System Lifecycle Management Guide and the Oracle Hyperion Profitability and Cost Management Administrator’s Guide.

Caution! Oracle recommends that, before importing artifacts, you create a backup directory of the databases in EPM Workspace and Essbase. Contact the administrator for assistance.
About Management Ledger Allocations

In Profitability and Cost Management, allocations control how costs and revenues are distributed throughout the model to specified accounts or elements. A driver is used to determine how the funds for each allocation are calculated. The calculated results are assigned from a source to a destination as the funds flow through the model. You use the Manage Rules area to create allocations in Management Ledger Profitability models.

You set up allocations for a single POV by creating rule sets and rules:

- **Rule sets** are groups of Management Ledger rules that help to organize calculation logic definitions, to calculate similar rules together, and to simplify the definition of many rules that share common dimension members. Rule sets run in a set order, determined by the rule set sequence number, and may also contain options specific to the execution of rules within that rule set.

- **Rules** define the calculation logic of Management Ledger models and enable them to reflect the cost assignments within the modeled situations. Rules within rule sets are executed in the order of their sequence numbers within that rule set. There are two types of rules, allocation and custom calculation. You can define allocation source, destination, driver basis, and offset for each allocation rule in a rule set (“Creating Management Ledger Allocation Rules” on page 355). Custom calculation rules contain formulas in MDX format and are primarily used for adjusting data (“Creating Management Ledger Custom Calculation Rules” on page 364).

You can set up defaults, called contexts, for each level of allocations for a POV in Management Ledger Profitability models:

- The **Global context** enables you to define default definitions for dimensions that will be used in all rule definitions for that POV.

- **Rule Set contexts** enable you to define default dimension definitions for all rules in a given rule set.
Creating and Managing Management Ledger Allocations

Subtopics

- About the Management Ledger Manage Rules Areas
- Defining Global Contexts for Management Ledger Rules
- Working with Rule Sets for Management Ledger POVs
- Defining and Managing Calculation Rules in Management Ledger Models

The topics in this section describe how to create and manage rule sets and rules in Management Ledger models so that data, such as revenue and expenses, can be pulled from a source location in Essbase and assigned to an allocation destination according to an applied driver. These procedures are performed in the Management Ledger Manage Rules task and content areas.

About the Management Ledger Manage Rules Areas

The Manage Rules task and content areas enable you to define allocations for Management Ledger Profitability models. You can define global and rule set contexts (dimension defaults), define rule sets, and define rules that access data sources, data destinations, drivers, and offsets.

Each group of rule sets and rules applies to a single POV.

Note: There are allocation rules and custom calculation rules. The same context and rule set information applies to both rule types.

To define allocations for Management Ledger models:

1. Open a Management Ledger model with data.
2. In the Task Area, select Manage Rules in the Manage Program group.

The Manage Rules content area is displayed (Figure 21 on page 347).
See the following sections for information about defining and managing allocations in Management Ledger Profitability models:

- “Defining Global Contexts for Management Ledger Rules” on page 347
- “Working with Rule Sets for Management Ledger POVs” on page 349
- “Defining and Managing Calculation Rules in Management Ledger Models” on page 355

See “Managing Management Ledger Calculations” on page 387 for information about running calculations and performing allocations.

**Defining Global Contexts for Management Ledger Rules**

Setting a *global context* enables you to define default definitions for dimensions that will be used in all rule definitions for the selected POV.

**Note:** Define a global context before defining rule sets for the selected POV.
To define a global context for one POV of a Management Ledger model:

1. In an open Management Ledger model, select Manage Rules in the Manage Program group (“About the Management Ledger Manage Rules Areas” on page 346).

2. In the Manage Rules content area (Figure 22 on page 348, enter the year and period for a valid POV, and then click the Refresh button, 

Figure 22 Defining a Global Context for Management Ledger Models

3. Click Edit, 

4. Optional: In the Global Context Definition box, enter a description of the global context default.

5. The Dimensions area displays all dimensions for the selected application that are not required system dimensions. Select one to apply to all rules as a default and then click or select Actions, and then select Add Member in the Member Selection area.

6. Select one member to include in the global context default for that POV, and then click OK.

7. Optional: Repeat steps 5 and 6 for other dimensions.

8. When the global context definition is complete, click (Save).

Now, all selected dimension-member combinations will be applied to new rules created for the selected POV.
Figure 23 on page 349 shows a global context definition that applies the NoDriver member to the Drivers dimension for all rules created for that POV. The global context was defined before any rule sets and rules were created.

The next step is to define and manage rule sets (“Working with Rule Sets for Management Ledger POVs” on page 349).

**Working with Rule Sets for Management Ledger POVs**

Subtopics

- Defining Management Ledger Rule Sets
- Managing Management Ledger Rule Sets
- Defining and Managing Management Ledger Rule Set Contexts

Rule sets enable users to group related rules together to better organize the definition of calculation logic, to execute similar rules together, and to simplify the definition of rules that share common dimension members. Rule sets have a set order, determined by the rule set
sequence number, and may also contain options specific to the execution of rules within that rule set. Rule sets apply to the specified POV.

Setting a rule set context enables you to define default definitions for dimensions that will be used in all rules included in the selected rule set for the selected POV.

### Defining Management Ledger Rule Sets

To define a rule set for one POV of a Management Ledger model:

1. In an open Management Ledger model, select Manage Rules in the Manage Program group ("About the Management Ledger Manage Rules Areas" on page 346).
2. In the Manage Rules content area (Figure 22 on page 348), enter the year and period for a valid POV, and then click the Refresh button, ![refresh button](image).
3. In the Rule Sets area, click ![actions](image) or select Actions and then select Create Rule Set (Figure 24 on page 350).

![Management Ledger Rule Set Definition Area](image)

4. Enter a name for the rule set.
5. Optional: In the Description box, enter a description of the rule set.
6. Enter a Sequence number to determine the order in which the rule set runs.
7. Optional: Select Enabled to indicate that the rule set is active when the calculation is performed.
8. Select an execution type to indicate how the rule set calculations should run:
Serial Execution, the default, runs all rules in the rule set sequentially, depending on their sequence number.

Parallel Execution runs rules with the same sequence number at the same time if computer hardware supports that.

Iterative Execution runs the rule set multiple times in sequence; Number of Iterations indicates the number of iterations to run.

If selected, Use Global Context indicates that the global context should be applied to the current rule set, if one has been defined.

Optional: Define a rule set context to apply dimension defaults to all rules in the rule set (“Defining and Managing Management Ledger Rule Set Contexts” on page 352).

When the rule set definition is complete, click (Save).

To edit and delete rule sets, see “Managing Management Ledger Rule Sets” on page 351.

To define a rule set context and set defaults for all rules in the rule set, see “Defining and Managing Management Ledger Rule Set Contexts” on page 352.

Managing Management Ledger Rule Sets

“Defining Management Ledger Rule Sets” on page 350 describes how to create a rule set. You can also delete and copy rule sets.

To delete a rule set:

1. Display the Manage Rules content area (“About the Management Ledger Manage Rules Areas” on page 346).
2. Enter a POV and select a rule set.
3. Click or select Actions and then Delete Rule Set.
4. Confirm that you want to delete the rule set and all its rules.
5. Click (Save).

To copy a rule set:

1. In the Manage Rules content area, enter a POV and select a rule set.
2. Click or select Actions and then Copy Rule Set.
3. Enter a name for the new rule set. Optionally, select Copy rules to add existing rules to the new rule set.
4. Click OK, and then click (Save).
Defining and Managing Management Ledger Rule Set Contexts

You can define a rule set context to specify default dimensions and members for use in all rules included in the selected rule set for the selected POV.

To define a rule set for one POV of a Management Ledger model:

1. In an open Management Ledger model, select Manage Rules in the Manage Program group ("About the Management Ledger Manage Rules Areas" on page 346).

2. In the Manage Rules content area (Figure 22 on page 348, enter the year and period for a valid POV, and then click (Refresh).

3. In the Rule Sets area, select a rule set and then click the Context tab (Figure 25 on page 352).

4. On the Context tab (Figure 25 on page 352), select a dimension that applies to all rules in that rule set.

   **Note:** POV dimensions and any dimensions defined in the global context are not available for selection.

5. In the Member Selection area, click or select Actions, and then select Add Member (Figure 26 on page 353).
6 In the Select Dimension Members dialog box, click the symbol in front of listed members to open them to their lowest level.

7 Select members to apply to all rules and use the shuttle control arrows to move them into the selected list on the right side of the Select Dimension Members dialog box.

8 When the rule set context definition is complete, click OK and then click (Save).

Now, all selected dimension-member combinations will be applied to new rules created for the selected POV.

Figure 27 on page 354 shows that the Customers, Activities, and CostCenters dimensions have been enabled as rule set contexts for the Infrastructure Charges rule set, sequence number 1. The selected member for CostCenters is CC1001.
Managing Rule Set Contexts

You can add members to and delete them from dimensions already added to a rule set context.

➢ To add members to a rule set context:
1  Open the Manage Rules content area for a selected POV.
2  Select a rule set and display its Context tab.
3  Follow steps 4 through 8 in the previous instructions for adding a member.

➢ To delete members from a rule set context:
1  Select a rule set and open its Context tab.
2  Select a dimension and member, and then click ✗ or select Actions and then select Delete Member.
   The member is deleted without confirmation.
3  Click ☑ (Save).
Defining and Managing Calculation Rules in Management Ledger Models

Subtopics

- Creating Management Ledger Allocation Rules
- Creating Management Ledger Custom Calculation Rules
- Managing Management Ledger Rules

In Management Ledger Profitability models, there are two types of calculation rules, allocation rules and custom calculation rules.

Allocation rules determine the source and destination of allocated data, which drivers are applied to that data, and where offsets are placed to balance accounts (“Creating Management Ledger Allocation Rules” on page 355). Management Ledger allocations differ from those in other types of Profitability and Cost Management models in that there are no stages or revenue and cost layers. All the functionality of the other types is handled through the Manage Rules content area, a simple user interface with multiple tabs for different allocation tasks.

Custom calculation rules contain formulas in MDX format and are primarily used for adjusting data (“Creating Management Ledger Custom Calculation Rules” on page 364).

Both types of calculation rules are organized under rule sets. Rule sets run in their sequence number order, and then the rules within a set run in the order of their sequence numbers. Rules with the same sequence number can run at the same time, provided the computer hardware allows for parallel execution of processes. Rules can be copied within rule sets.

You can use contexts to define dimension and member defaults for both types of rules, either for all rules in a POV (“Defining Global Contexts for Management Ledger Rules” on page 347) or for all rules in a rule set (“Defining and Managing Management Ledger Rule Set Contexts” on page 352). For information about management and running calculation rules, see “Managing Management Ledger Calculations” on page 387.

Creating Management Ledger Allocation Rules

Allocation rules form the core of Management Ledger models. They determine how allocated data flows and how drivers determine allocation amounts.

To define allocation rules for one POV in a Management Ledger model:

1. In an open Management Ledger model, select Manage Rules in the Manage Program group (“About the Management Ledger Manage Rules Areas” on page 346).
2. In the Manage Rules content area (Figure 22 on page 348, enter the year and period for a valid POV, and then click (Refresh).
3. In the Rule Sets area, select a rule set.
4. Do one of the following.
   - In the Rules area, click , and then select Allocation, or
Select **Actions**, then select **Create Rule**, and then select **Create Allocation Rule** (Figure 28 on page 356).

**Figure 28** The Description Tab of the Management Ledger Rule Definition Area

5 Enter a name for the rule.

6 **Optional:** In the **Description** box, enter a description of the rule set.

7 **Optional:** Select **Enabled** to indicate that the rule is active when the calculation is performed.

8 Enter a **Sequence** number to determine the order in which the rule runs within the rule set.

   Rules with the same sequence number will run at the same time if parallel calculation is enabled for the rule set and the computer hardware supports it.

9 If selected, **Use Rule Set Context** indicates that the rule set context is applied to the current rule, if one was defined.

   If a global context has been enabled for the rule set, it will also be applied.

10 When the rule set definition is complete, click **Save**.

To define a source for the allocation rule, see “Defining a Source for Management Ledger Allocation Rules” on page 356.

To edit and delete rules, see “Managing Management Ledger Rules” on page 370.

To create a custom calculation rule, see “Creating Management Ledger Custom Calculation Rules” on page 364.

**Defining a Source for Management Ledger Allocation Rules**

“Creating Management Ledger Allocation Rules” on page 355 describes how to create and describe a new allocation rule. The next step is to define an allocation source, the dimensions with the expense or other data you are assigning to an allocation destination.
To define the source from which the calculation rule will retrieve data to be allocated:

1. In an open allocation rule, click the Source tab (Figure 29 on page 357).

Figure 29  The Source Tab of the Management Ledger Allocation Rule Definition Area

2. Select the dimension and member that holds the data to be allocated.

3. Optional: Filter the members in the Member Selection area. See “Filtering Dimension Members” at the end of this topic.

4. When the rule source information is complete, click (Save).

5. The next step is to enter a Destination for the allocated data.

Figure 30 on page 358 shows that Furnishings and Equipment in the Occupancy Expense Allocations rule set will pull data from the CC2001 and CC5001 members of the CostCenters dimension.
To define a destination for the allocation rule, see “Defining a Destination for Management Ledger Allocation Rules” on page 358.

To edit and delete rules, see “Managing Management Ledger Rules” on page 370.

Filtering Dimension Members

Follow these steps to filter members in the Member Selection area of the Rule Definition screen:

1. At the bottom of the Rule Definition area, click the arrow in front of Filter to expand the Filter area.

2. To add a filter, click + or select Actions and then select Add Filter.
   
   Select a parameter such as Name, an Operator such as = or <>, and then enter a Value such as the first few letters of a name. Click OK to display members that match Value and add the filter to the table.

3. To edit a filter, select it and click ✏️. Change the filter as you want and then click OK.

4. To delete a filter, select it and click ✗. The filter is deleted.

**Defining a Destination for Management Ledger Allocation Rules**

“Defining a Source for Management Ledger Allocation Rules” on page 356 describes how to enter the data source for a Management Ledger allocation. The next step is to define an allocation destination, the dimensions to receive the expense or other data you are pulling from the allocation source.
To define the destination to which the allocation rule will assign data:

1. In an open rule, click the **Destination** tab (Figure 31 on page 359).

   ![Figure 31 The Destination Tab of the Management Ledger Allocation Rule Definition Area](image)

2. Select the dimension and member that are to receive the allocated data.

3. **Optional:** Select **Same As Source** if the destination dimension is the same as the source.

4. **Optional:** Filter the data as described in “Defining a Source for Management Ledger Allocation Rules” on page 356, step 3.

5. When the rule destination information is complete, click **(Save)**.

6. The next step is to enter a **Driver Basis** for the allocated data.

   Figure 32 on page 360 shows one of the destinations of allocated data for the Furnishings and Equipment rule—the CostCenters dimension and various members named CC followed by a number.
To enter a driver basis for the rule, see “Defining a Driver Basis for Management Ledger Allocation Rules” on page 360.

To edit and delete rules, see “Managing Management Ledger Rules” on page 370.

**Defining a Driver Basis for Management Ledger Allocation Rules**

“Defining a Destination for Management Ledger Allocation Rules” on page 358 describes how to enter the data destination for a Management Ledger allocation. The next step is to define an allocation driver basis, the member where driver values are found.

For Management Ledger models, Profitability and Cost Management assumes a focus on the destination. The dimension and member selection on the **Driver Basis** tab represents a change to the destination that defines where the driver is located. For example, if the allocation destination is the intersection of the Sales department and Salaries account, the Driver Basis definition is the Headcount account member. By default, data is allocated to the destination proportionally, using the ratio of the driver value for that member divided by the sum of all driver values. You can choose to allocate data evenly, which is the same as if the driver ratio was 1.

Typically, systems are set up so that one member from one dimension, usually the Accounts dimension, contains the statistical members associated with any intersection. Only one member can be selected for each dimension.
To define the driver basis for a Management Ledger allocation rule:

1. In an open rule, click the **Driver Basis** tab (Figure 33 on page 361).

**Figure 33** The Driver Basis Tab of the Management Ledger Allocation Rule Definition Area

2. Select whether data should be allocated by ratio (**Specify Driver Location**) or allocated evenly (**Allocate Evenly**).

3. If you selected **Specify Driver Location**, select the dimension and member that holds the driver data, for example Headcount.

4. When the rule source information is complete, click **Save**.

5. The next step is to enter an **Offset** for the allocation, an optional task.

**Figure 32 on page 360** shows the location of a driver to be applied when allocating data for the Furnishings and Equipment rule, the Statistics member of the Accounts dimension.
To enter an offset for the rule, see “Defining an Allocation Offset for Management Ledger Allocation Rules” on page 362.

To edit and delete rules, see “Managing Management Ledger Rules” on page 370.

**Defining an Allocation Offset for Management Ledger Allocation Rules**

“Defining a Driver Basis for Management Ledger Allocation Rules” on page 360 describes how to select drivers that determine allocation amounts for Management Ledger models. The next step is to define an allocation offset location, the member to hold an increase to balance a corresponding decrease in the allocation source. By default, offsets are written to the source but you can specify another location. This step is optional.

The offset location definition assumes a focus on the source with the option to select an alternate location. For example, suppose the allocation source is the Sales department intersecting the Salaries account. The default location for the offset would be the intersection of Salaries and Sales. However, you could specify Outbound Allocations of the Sales department instead. By specifying that single change, you are instructing the system to write the offset entry at the source, except you are changing the target location so the offset is written to the intersection of Outbound Allocations and Sales dimension instead of the source.
To define the offset for a Management Ledger allocation rule:

1. In an open allocation rule, click the Offset tab (Figure 35 on page 363).

**Figure 35** The Offset Tab of the Management Ledger Allocation Rule Definition Area

2. Select whether offset data should be written to the Source intersection, or to an Alternate Offset Location.

3. If you selected Alternate Offset Location, select the dimension and member to hold the driver data.

4. When the rule source information is complete, click (Save).

To view any context definitions for a rule, see “Viewing Contexts for Management Ledger Rules” on page 363.

To edit and delete rules, see “Managing Management Ledger Rules” on page 370.

**Viewing Contexts for Management Ledger Rules**

“Defining Global Contexts for Management Ledger Rules” on page 347 and “Defining and Managing Management Ledger Rule Set Contexts” on page 352 describe how to select default dimensions and members to be applied to Management Ledger rules for a given POV.

To view contexts applied to a selected rule:

1. If a rule is not already selected and open, open one.

2. Click the Rule Context tab.
Creating Management Ledger Custom Calculation Rules

Subtopics

- Defining a Target for Management Ledger Custom Calculation Rules
- Defining Formulas for Management Ledger Custom Calculation Rules
- Viewing Contexts for Management Ledger Custom Calculation Rules

Calculation rules form the core of Management Ledger models. “Creating Management Ledger Allocation Rules” on page 355 describes how to create allocation rules. They determine how allocated data flows and how drivers determine allocation amounts. This section describes how to create custom calculation rules.

Unlike allocation rules, custom calculation rules do not have a defined source and destination with options for defining a driver basis and accounting offset. Instead, custom calculation rules enable users to define calculations to be performed in a certain region of the database with results posted to a specific member. Custom calculation rules are used primarily for adjusting existing data to create a scenario or to accommodate reporting requirements.

As with allocation rules, a Rule dimension member is linked to the custom calculation rule. Any data created by the custom calculation rule is written to the corresponding Rule dimension member.

Custom calculation rules have the following components that correspond to the tabs in the Rule Definition area:

- **Description** — Rule name and number, text description, and rule-level options (described later in this topic)
- **Target** — The target range in the database that the rule will affect (“Defining a Target for Management Ledger Custom Calculation Rules” on page 366)
- **Formula** — The member to which results of the calculation are written and the mathematical expression of the calculation (“Defining Formulas for Management Ledger Custom Calculation Rules” on page 367)
- **Rule Context** — Enables you to view any Global or Rule Set contexts defined for the custom calculation rule (“Viewing Contexts for Management Ledger Custom Calculation Rules” on page 369)

Like allocation rules, custom calculation rules belong to rule sets, have sequence numbers, inherit contexts, can be activated or deactivated with the **Enabled** setting, and have the same rule set execution options (serial, parallel, iterative). Custom calculation rules can be copied and deleted in the same way as allocation rules (“Managing Management Ledger Rules” on page 370).
To define custom calculation rules for one POV in a Management Ledger model:

1. In an open Management Ledger model, select Manage Rules in the Manage Program group.

2. In the Manage Rules content area (Figure 22 on page 348, enter the year and period for a valid POV, and then click (Refresh).

3. In the Rule Sets area, select a rule set.

4. Do one of the following:
   - In the Rules area, click , and then select Custom Calculation, or
   - Select Actions, then select Create Rule, and then select Create Custom Rule.

The Description tab of the Rule Definition area is displayed (Figure 36 on page 365)

Figure 36  The Description Tab of the Management Ledger Custom Calculation Rule Definition Area

5. Enter a name for the rule.

6. Optional: In the Description box, enter a description of the rule set.

7. Optional: Select Enabled to indicate that the rule is active when the calculation is performed.

8. Enter a Sequence number to determine the order in which the rule runs within the rule set.

   Rules with the same sequence number will run at the same time if parallel calculation is enabled for the rule set and the computer hardware supports it.

9. If selected, Use Rule Set Context indicates that the rule set context is applied to the current rule, if one was defined.

   If a global context has been enabled for the rule set, it will also be applied.

10. When the rule set definition is complete, click Save.
To perform the next rule definition task, see “Defining a Target for Management Ledger Custom Calculation Rules” on page 366.

To edit and delete rules, see “Managing Management Ledger Rules” on page 370.

**Defining a Target for Management Ledger Custom Calculation Rules**

“Creating Management Ledger Custom Calculation Rules” on page 364 describes how to complete the **Description** tab for a Management Ledger custom calculation rule. The next step is to define a calculation target, the range of dimensions that are affected by the custom calculation rule.

To define the target which the custom calculation rule will affect:

1. In an open custom calculation rule, click the **Target** tab (Figure 37 on page 366).

![Figure 37 The Target Tab of the Management Ledger Custom Calculation Rule Definition Area](image)

2. Select the dimensions and members that will be affected by the custom calculation formula.

3. **Optional:** Filter the data as described in “Defining a Source for Management Ledger Allocation Rules” on page 356.

4. When the rule target information is complete, click ![Save](image) (Save).

5. The next step is to enter a **Formula** for the custom calculation rule.

To perform the next rule definition task, see “Defining Formulas for Management Ledger Custom Calculation Rules” on page 367.

To edit and delete rules, see “Managing Management Ledger Rules” on page 370.
Defining Formulas for Management Ledger Custom Calculation Rules

Subtopics

- Management Ledger Custom Calculation Rule Formula Syntax
- Custom Calculation Rule Formula Validation Requirements

“Defining a Target for Management Ledger Custom Calculation Rules” on page 366 describes how to enter a range of dimensions and members that are affected by a Management Ledger custom calculation rule. The next step is to define the calculation formula for the rule.

To define the formula for a Management Ledger custom calculation rule:

1. In an open custom calculation rule, click the Formula tab (Figure 38 on page 367).

![Figure 38 The Formula Tab of the Management Ledger Custom Calculation Rule Definition Area](image)

2. Enter the formula as a text string (see “Management Ledger Custom Calculation Rule Formula Syntax” on page 368 for format information).

3. Select Validate Formula to determine if the formula is valid.

   For details, see “Custom Calculation Rule Formula Validation Requirements” on page 369.

4. When the formula is complete, click ![Save] (Save).

**Note:** Following rule calculation, you can define appropriate model views and use the Rule Balancing or Manage Queries task areas to view custom calculation rule results.
To view context definitions for the custom calculation rule, see “Viewing Contexts for Management Ledger Custom Calculation Rules” on page 369.

To edit and delete rules, see “Managing Management Ledger Rules” on page 370.

Management Ledger Custom Calculation Rule Formula Syntax

The syntax, or format, for custom calculation rules is summarized as follows:

- The basic formula format is Result = Target.
- The left side of the equation is the Result, the member to which the result is written. It is only a single Level 0 member in the following format:
  
  \[ <\text{MemberName}> \]

- The right side of the equation is the Target. It includes the other members, tuples, or constants at any level and the mathematical expression to perform.

  The Target is an MDX numeric value expression, where MDX is a joint specification of the XML for Analysis founding members. For more information about XML for Analysis, please visit [http://www.xmlforanalysis.com](http://www.xmlforanalysis.com). For more information about allowable MDX syntax, see the [Oracle Essbase Technical Reference](http://www.xmlforanalysis.com).

- Each member or tuple is surrounded by \(<\ />\) special characters. If the tuple or member does not contain a Rule dimension member, the top of the Rule dimension will be considered a member of Target. All results are written to the Result member intersection with the new Rule member for the custom calculation rule being defined. For formula requirements, see “Custom Calculation Rule Formula Validation Requirements” on page 369.

- Custom calculation rules support the following syntax formats for member names:
  - **No qualification**: Only the member name is provided.
    
    Example: \(<\text{MemberName}>\)
  
  - **Partial qualification**: Dimension name + member name.
    
    Example: \(<\text{Dimension.MemberName}>\)
  
  - **Full qualification**: The fully qualified name (FQN) for the member.
    
    Example: \(<\text{Dimension.}[\text{Gen2}],[\text{Gen3.}][\text{Gen4}]...[\text{MemberName}]>\)

Examples

The following are examples of different kinds of expressions:

- A constant:
  
  \[ <\text{Adjustment In}>=100 \]

- A single member:
  
  \[ <\text{Adjustment In}>=<\text{Input}>*0.15 \]

- A tuple:
  
  \[ <\text{Adjustment In}>=<\text{Input,2013,Budget}>*1.15 \]

- Multiple tuples in a calculation:
Custom Calculation Rule Formula Validation Requirements

When you click Validate Formula, Profitability and Cost Management checks for the following:

- The Target tab of the custom calculation rule Rule Definition task area must have all dimensions selected except the one used for the formula Result.
- The formula Result term must not contain a tuple. For example, the following is not allowed:
  \[ \langle A11, B11 \rangle = \langle A11 \rangle \times 3 \]
- Parent members are not allowed in the formula Result term. For example, the following is not allowed assuming that A1 is a parent member:
  \[ \langle A1 \rangle = \langle A11 \rangle \times 3 \]
- In the Target, single-member references can only be members from the Result dimension. Tuples must include a member from the Result dimension. For example, the following formulas are invalid and valid as noted:
  Invalid formula: \[ \langle A11 \rangle = \langle B11 \rangle \times 3 \]
  Valid formulas: \[ \langle A11 \rangle = \langle A11, B11 \rangle \times 3; \langle A11 \rangle = \langle A41, B11 \rangle \times 3; \langle A11 \rangle = \langle A21 \rangle \times 3 \]
- Valid arithmetic operators are the following:
  +, -, \times, /

Target and Result terms are separated by a valid equal sign (=). Only one = sign is allowed in a formula.

When a model has duplicate members across dimensions, partially or fully qualified names must be used (see “Management Ledger Custom Calculation Rule Formula Syntax” on page 368).

In the Result term, only a Target term dimension member is allowed.

In the Result term, there must be one Level 0 member of the Result dimension.

The Target formula must contain valid dimension members in a valid format, as outlined here and in the Oracle Essbase Technical Reference.

Viewing Contexts for Management Ledger Custom Calculation Rules

“Defining Global Contexts for Management Ledger Rules” on page 347 and “Defining and Managing Management Ledger Rule Set Contexts” on page 352 describe how to select default dimensions and members to be applied to Management Ledger rules for a given POV.

To view contexts applied to a selected custom calculation rule:

1. If a custom calculation rule is not already selected and open, open one.
2. Click the Rule Context tab.

The displayed information is not editable.
For general information about custom calculation rules, see “Defining and Managing Calculation Rules in Management Ledger Models” on page 355.

To edit and delete allocation and custom calculation rules, see “Managing Management Ledger Rules” on page 370.

Managing Management Ledger Rules

Previous sections describe how to create rules. You can also delete and copy rules.

To delete a rule:

1. Display the Manage Rules content area (“About the Management Ledger Manage Rules Areas” on page 346).
2. Enter a POV and select a rule set.
3. In the Rules area, select a rule.
4. Click or select Actions and then Delete Rule.
5. Confirm that you want to delete the rule.
6. Click (Save).

To copy a rule:

1. In the Manage Rules content area, enter a POV and select a rule set.
2. In the Rules area, select a rule.
3. Click or select Actions and then Copy Rule.
4. Enter a name for the new rule.
5. Click OK, and then click (Save).

Tracing Management Ledger Profitability Allocations

Subtopics

- About Tracing Management Ledger Allocations
- Performing a Management Ledger Allocation Trace
- Viewing Management Ledger Allocation Trace Results

The Trace Allocations task area of Management Ledger Profitability enables you to select a model view and POV and then trace forward or back from that point to see allocation inputs and outputs for a selected dimension. While rule balancing, described in “Rule Balancing for Management Ledger Profitability Application Validation” on page 380 presents some similar information in a grid format, the Trace Allocations feature shows graphically how allocation amounts are flowing in and out of model elements. You can use this information for evaluation and validation.
When you trace, you can select a particular generation level or always roll up data to the top. For details, see the listed topics.

**Note:** To trace allocations in Management Ledger models, a compatible version of Adobe Flash Player must be installed for your browser. Currently Flash Player 10 is required. The current location for downloading Adobe Flash Player is:

http://get.adobe.com/flashplayer/

**About Tracing Management Ledger Allocations**

You begin an allocation trace by selecting a focal node, defined by the POV and model view entered into the **Trace Allocations** task area. You can trace forward or back from the focal node.

When you trace back, you display allocations that contribute to the selected dimension of the focal node. The first level back from the focal node is the rule node, which shows the contribution from each rule. The next level back from the rule node is the dimension node. Dimension nodes show the contribution from each member for the selected dimension at the top level or the selected generation or level (Figure 39 on page 372).

**Note:** This figure is a “zoomed out” view to display many nodes. You can zoom in to view details and can move the chart around the screen to focus on different parts (“Performing a Management Ledger Allocation Trace” on page 372).
In default layout, the nodes display in columns. The single focal node is followed by a column of rule nodes, and then by a column of dimension nodes for the expanded rule node. The rule nodes and dimension nodes display the percentage of their contribution to the value in the focal node.

When you trace forward from the focal node, the rule nodes and dimension nodes display contributions (Allocations Out) from their predecessors — from the focal node to the rule nodes, and then from the rule nodes to the dimension nodes.

**Performing a Management Ledger Allocation Trace**

1. Open a Management Ledger Profitability model, and then select *Trace Allocations* in the Manage Program task area (Figure 40 on page 373).
2 In the Trace Allocations area, select POV information and a model view for the focal mode, the starting point for the trace (“About Tracing Management Ledger Allocations” on page 371).

3 Click to validate your selection.

4 Select a Tracing Dimension, the dimension of interest for your trace.

5 Indicate whether you want to use aliases instead of names.

6 Indicate whether you want to select a particular node level or just display the top level (0) for each node.

7 Click Trace Forward or Trace Back, depending on whether you want to trace allocations coming from the focal node or contributing to it (“About Tracing Management Ledger Allocations” on page 371).

8 View the trace results (“Viewing Management Ledger Allocation Trace Results” on page 373). You can zoom or move around the results to show more or less detail or a different part of the chart.

To trace further, you can change the POV, model view, dimension, or generation level. For example, you could make a dimension member the focal node for a new trace.

**Viewing Management Ledger Allocation Trace Results**

When you first perform a trace, the focal node is displayed (Figure 41 on page 374).
Figure 41  Management Ledger Allocation Trace Focal Node

At full size (100% “zoom”), the focal node shows the following: model view, dimension members, balance, input, adjustment in, adjustment out, allocation in, allocation out, and allocation offset amount.

If the focal node is only partially visible, you can use the **Zoom and Center** tool to move it:

Click the dot in the center to center the chart. Click the arrows to move the chart background. This has the effect of moving the chart in the opposite direction.

When you point to the middle of the right edge of the focal node, a + (plus) sign is displayed:

You can click the + sign to expand the chart and show the rule nodes (**Figure 42 on page 375**).
At 100% zoom, a rule node shows the rule number, name, and rule set. It also shows the allocation driver, allocation in (back trace, allocation out (forward trace), and the contribution to the total allocation shown in the focal node.

If you point to the right edge of the rule node, you can click the + sign to show the dimension nodes (Figure 43 on page 375). If you click the symbol on the left side, the rule node detaches and is displayed without the rest of the chart. Click the arrow symbol to return to the chart view.

At 100% zoom, the dimension nodes show the member name, allocation out (back trace), allocation in (forward trace), and percent of contribution to or from the focal node. If you click the symbol on the left edge of the node, it detaches from the rest of the chart. Click the arrow to restore it. A + sign on the right edge shows that there are additional levels to the dimension. However, if you click it, no further expansion occurs; the chart is already expanded to its limit.

Additional Chart Controls

The remaining chart controls perform the following actions:

- Changes the configuration of the node tree
- Zooms out to display as much of the chart as possible. Up to ten rule and dimension nodes are displayed; arrows following the last node of each type indicate that there are more to display.
- When clicked, enlarges the chart by a step (zooms in)
- When clicked, shrinks the chart by a step (zooms out)
Note: As you zoom in and out, an arrow moves between the two Zoom icons to show the relative degree of “zoom”.

— Hides the control panel; click to show it again

For Zoom levels of 100%, 75%, and 50%, hyperlinks display for Allocation In and Allocation Out amounts on the focal node and rule nodes. You can click these to launch Smart View as described in “Running Queries from the Management Ledger Rule Balancing Screen” on page 400.
About Management Ledger Model Validation

Two Profitability and Cost Management features help you validate Management Ledger models:

- Rule balancing enables you to view dimension/member combinations within your model to confirm that allocations are working the way you expect (“Rule Balancing for Management Ledger Profitability Application Validation” on page 380).
- Validation and system reports enable you to identify and diagnose logic and system issues (“Performing Model Validation Analysis for Management Ledger Models” on page 383).

Model views assist with rule balancing and queries (“Creating and Managing Management Ledger Model Views” on page 377).

Creating and Managing Management Ledger Model Views

Subtopics

- About Model Views
- Creating Model Views
- Managing Model Views

About Model Views

The Model Views feature of Management Ledger Profitability applications enables users to define a slice of the model that can return data from a particular area of the database. Model views can be saved, copied, and modified. They can then be used in other tasks, such as rule
balancing, to identify dimensions and members to retrieve. For more information, see “Creating Model Views” on page 378 and “Managing Model Views” on page 379.

**Creating Model Views**

1. To create a model view:
   1. In an open model, select **Manage Model Views** in the **Validation** group of the Task Area.
   2. In the **Manage Model Views** area, click or select **Create Model View** in the **Actions** menu.
   3. In the **Model View** area, enter a **Model View Name** and an optional **Description** (Figure 44 on page 378).

![Figure 44 Information Required to Create a Model View](image)

4. For your convenience, use the up and down arrows in the **Dimensions** area to move selected dimensions toward the top or the bottom of the list.

   If there are many dimensions, you may find it helpful to move the most used ones toward the top.

   **Note:** You can use the **View** menus to hide, show, and change the order of columns.

5. To add dimension members to the view, select a dimension and click in the **Member Selection** area, or select **Add Member** in the **Actions** menu.
6 In the Select Dimension Members dialog box, select members and use the right and left arrows of the shuttle control to move members from the list of available members at the left to the list of selected members at the right (Figure 45 on page 379).

Figure 45  Select Dimension Members Dialog Box for Model Views

7 When members have been selected, click OK.

8 Optional: Click or use the Action menu in the Member Selection area of the Model View panel to remove previously added members.

9 When changes are complete, click .

To delete, copy, or modify a model view, see “Managing Model Views” on page 379.

Managing Model Views

To create a model view, see “Creating Model Views” on page 378.

➢ To delete, copy, or modify a model view:

1 In an open model, select Manage Model Views in the Validation group of the Task Area.

2 Select a model view in the Manage Model Views area

3 Optional: To delete the selected model view, click or select Delete Model View in the Actions menu and confirm the deletion.

4 Optional: To copy the selected model view, click or select Copy Model View in the Actions menu and enter a name for the new model view.

5 Optional: To modify the selected model view, change appropriate information for it in the Model View panel at the right side of the screen.

6 When changes are complete, click .
Rule Balancing for Management Ledger Profitability
Application Validation

Subtopics

- Viewing the Rule Balancing Task Area
- Performing Rule Balancing Tasks

Rule balancing can help you validate Management Ledger Profitability models in these ways:

- **Calculation results validation** — Following a calculation, you can validate the results by reviewing calculation results for individual rules, reviewing the impacts of those rules, and evaluating the effect of all rules on a particular slice of the database. You can verify that the calculations are producing expected results and also determine if the collection of rules is affecting the database slice as expected.

- **Contribution analysis and trace** — Using the same screen and isolating a segment of the database, you can evaluate the balances at that segment and how the rules contributed to the final result. Then, you can use this information to relate final results to individual rules to trace the effects of model logic on the final allocation results.

To display rule balancing data, calculate the model and then follow these steps:

1. In the Task Area, select Validate, and then Rule Balancing.

   The Rule Balancing task area is displayed (Figure 46 on page 380).

![Management Ledger Rule Balancing Screen](image)

2. Select a Model View from the list at the top, and then select a POV (Year, Period, and Scenario, here).
   Click Refresh.

   Appropriate values are displayed in the columns (Figure 47 on page 381).
Review the data and manage it as described in “Viewing the Rule Balancing Task Area” on page 381 and “Performing Rule Balancing Tasks” on page 382.

Note: You can change the POV or Model View to review a different set of data.

For other model validation tasks, see “About Management Ledger Model Validation” on page 377 and “Performing Model Validation Analysis for Management Ledger Models” on page 383.

Viewing the Rule Balancing Task Area

The Rule Balancing task area shows how all rules affect the selected slice of the database (Figure 47 on page 381).

The layout illustrates the sequence of rule sets and rules that ran, the corresponding rule numbers, and the specific impacts of a rule displayed across columns. The columns include input values, additions and subtractions, running total, and final balances. By default, the following data displays: the model POV members selected in the POV bar, the POV’s global context, the tops of all other business dimensions, and the balance and rule members corresponding to the rows (rules) and columns (balances) displayed in the table. You can change this view by creating model views that show different slices of data, and then selecting one in the Model View list at the top of the task area (“Creating and Managing Management Ledger Model Views” on page 377).

Table columns are as follows:

- **Rules** — Displays the calculation program as a hierarchy of rule sets and the rules contained within each rule set. You can expand or contract rule sets to see or hide the rules contained within each. The rule sets and rules are displayed in the same order as in the Manage Rules screen when sorted by sequence number. If rule sets or rules have the same sequence number,
the secondary sort for this column is the same secondary sort used in the Manage Rules screen.

- **Rule Number** — Displays the rule dimension member corresponding to the rule.
- **Input** — Displays the value of the input member corresponding to the slice indicated by the combination of POV and the rule number of the row. For all rows except the first, Input is typically blank.
- **Adjustment In** — Displays the Adjustment In member corresponding to the slice indicated by the combination of POV and rule number of the row.
- **Adjustment Out** — Displays the Adjustment Out member corresponding to the slice indicated by the combination of the POV and rule number of the row.
- **Allocation In** — Displays the Allocation In member corresponding to the slice indicated by the combination of the POV and the rule number of the row.
- **Allocation Out** — Displays the Allocation Out member corresponding to the slice indicated by the combination of the POV and the rule number of the row.
- **Allocation Offset Amount** — Displays an amount that further reduces an Allocation In member, if one was used in addition to the Allocation Out.
- **Net Change** — Displays the Net Change member corresponding to the slice indicated by the combination of the POV and the rule number of the row.
- **Remainder** — Displays the difference between Allocation In and Allocation Out plus Allocation Offset Amount, if any, for each row.
- **Running Remainder** — Displays the sum of the prior row's running remainder and the current row's net change column. This column serves like a checkbook register to indicate the remainder as of the execution of the rule corresponding to the current row. For rule set summary rows, this column shows the same running remainder as the last rule within that rule set.
- **Balance** — The amount resulting when adjustments, allocations, and offsets are taken into account. It should equal the Input.
- **Running Balance** — Displays the sum of the prior row's running balance and the current row's net change column. This column is similar to a checkbook register to indicate the balance as of the execution of the rule corresponding to the current row. For rule set summary rows, this column shows the same running balance as the last rule within that rule set.

For information about actions you can perform in this task area, see “Performing Rule Balancing Tasks” on page 382.

**Performing Rule Balancing Tasks**

You can use the Rule Balancing menus and tool bar buttons to perform the following tasks:

- Click **Refresh** or select **Actions**, and then **Refresh** to reload calculation results.
Click , or select Actions, and then Export To Excel to export data in the table to a Microsoft Excel file.

Select Actions, and then Format to indicate the number of decimal places to display in the table.

If a value in the Rule Balancing table is displayed in blue and underlined when you point to it, this indicates a Smart View hyperlink. You can click these hyperlinks to launch Smart View and drill down further on input or allocation data.

Note: For a description of the Rule Balancing task area, see “Viewing the Rule Balancing Task Area” on page 381.

Performing Model Validation Analysis for Management Ledger Models

After a Management Ledger Profitability model is deployed, it can become invalid if any of the following changes are made to dimensions that are used in model artifacts:

- The dimension member is deleted.
- The dimension member is reparented.
- The dimension member is renamed.
- The dimension member is deleted.

The following artifacts can be affected by dimension model changes: Program, Rule Sets, Rules, Model Views, and Smart View Queries.

The following processes and task areas reference these artifacts and will display errors if an invalid condition is created: LCM Export, Model Validation, Calculate, Manage Rules, Manage Queries, and Model View.

If a validation error is displayed, you can learn more about it in the Model Validation task area.

To check for and analyze validation errors:

1. In an open Management Ledger model, select Validate and then Model Validation.
2. In the Model Validation area, enter POV information (such as Year, Period, and Scenario), and click Run.

Errors, if present, display in a Model Validation table. The default tab is for rule sets and rules (Figure 48 on page 384).
The error table for rule sets and rules contains the following information:

- Error type (location) — Global Context, Rule Set Context, Rule Source, Rule Destination, Rule Driver, or Rule Offset.
- Name and number of the rule or rule set involved.
- Status of the rule or rule set, usually Disabled.
- A description of the error.

3 Review the Model Views and Queries tabs. Display the tab and click Run.

   Note that these tabs apply to all POVs, so you do not need to select a POV.

4 Note errors on any tab. You can click \[\text{[ ]}\], or select Actions, and then Export to Excel to export data in the table to a Microsoft Excel file.

5 Repair the errors and validate again.

Note: You can fix rule set and rule errors in the Manage Rules task area ("Working with Rule Sets for Management Ledger POVs" on page 349). If a rule has an invalid member, you can remove it by selecting the rule and clicking \[\text{[ ]}\].

If your security role enables you to log into EPM Workspace as Administrator, you can also validate deployed applications and perform impact analysis of dimension changes. For details, see Oracle Hyperion Profitability and Cost Management Administrator’s Guide.
After you validate the structure and data of a Management Ledger model, you can perform the following tasks:

- “Deploying Management Ledger Databases” on page 385
- “Managing Management Ledger Calculations” on page 387

You can run the operations directly from the screen, or schedule a suitable time.

### Deploying Management Ledger Databases

**Subtopics**

- About Deploying Management Ledger Databases
- Management Ledger Database Deployment Process

After validating the structure and data of a Management Ledger model (Chapter 24, “Validating Management Ledger Models”), you must deploy the database to create the metadata outlines. The topics in this section are used to deploy calculation and reporting data.

**Note:** Whenever metadata is changed, you should redeploy the application. Any Performance Management Architect (EPMA) or Profitability Application Manager deployment should be followed by an Essbase deployment to keep metadata synchronized.

### About Deploying Management Ledger Databases

For the first deployment of a Management Ledger database, you should select the Replace Database option to create the database in its entirety. After the first deployment, when you need to redeploy the calculation database, you can select deployment options to retain data already in the cube or to discard it upon restructure.

Any errors in the deployment are reported in $hpcm.log$. 


Management Ledger Database Deployment Process

Caution! Oracle recommends that, before importing data or artifacts, you create a backup of the data in EPM Workspace and Essbase. Contact your administrator for assistance.

To deploy Management Ledger databases:

1. In an open model, from Task Areas, select Calculate, and then Manage Database.

   The Manage Database screen is displayed (Figure 49 on page 386).

   ![Management Ledger Manage Database Screen](image)

2. Under Essbase Information, review the following information:
   - **Cluster** displays the name of the Essbase database server that contains the model.
   - **Calculation Application** displays the name of the application being deployed.
   - **Calculation Database** displays the name of the Essbase database to which the application is being deployed.

3. Under Deploy Options, select appropriate Database Options for deploying the Management Ledger database:
   - For the first deployment of a database, all selections are grayed out. This option creates the entire database for the first time.
   - To redeploy an existing database, select **Update Database** to retain existing artifacts and property settings in the new database, and change the outline to reflect current metadata.
Optional: Select **Preserve Data** to build and restructure the Essbase cube while preserving data. This option can be time-consuming, based on the size of the outline and the amount of data present.

- Alternatively, select **Replace Database** to remove the database and applications completely, and recreate them.

4 **Optional:** Under Last Database Deployment, review the date and time of the previous deployment.

5 Select a deployment timing option:

- Click **Deploy Later** to schedule a convenient date and time to run the deployment. See “Scheduling Taskflows” on page 172
- Click **Deploy Now** to deploy the database immediately.

A confirmation message is displayed, indicating that the job has started and identifying the assigned taskflow ID.

**Caution!** Depending on the size and complexity of a model, this operation may take a significant amount of time.

6 Monitor the progress of the deployment on the **Job Status** page using the taskflow ID.

7 Calculate the model ("Managing Management Ledger Calculations" on page 387).

### Managing Management Ledger Calculations

After deploying the database, you can calculate the model.

**Caution!** Before calculating a model, ensure that cost and revenue data have been loaded into Essbase. Otherwise, the calculation scripts run using an empty data set.

The global context, rule sets, and calculation rules in Management Ledger applications are specific to a single point of view (POV). This means that a rule set or rule of the same name may exist in multiple POVs but each of the instances of that rule set or rule is a unique artifact and may have a unique definition. Running a calculation rule for a specific POV executes the definition of that rule set or calculation rule as it exists in that POV.

The **Manage Calculation** screen (Figure 50 on page 388) is used to run calculations for all or part of the entire set of calculation rules for a single POV. You can run the operations directly from the screen or schedule a later time.

➢ To clear or calculate Management Ledger data:

1 In an open model, from Task Areas, select **Calculate**, and then **Manage Calculation**.
In the Manage Calculation screen (Figure 50 on page 388), enter the Year, Period, and optionally, Status to calculate.

Optional: Enter a Job Comment.

In the Processing Options group, select one or both actions to be performed:

- Clear Calculated Data to clear the Allocation In and Allocation Out members intersecting the Rule dimension members that correspond to the calculation rules specified in the Processing Range options (unselected by default)
- Execute Calculation to run the calculation rules specified in the Processing Range options (unselected by default)

In the Processing Range group, indicate which rules to run:

- All Rules—Runs all enabled rules defined for the selected POV.
- Specify Rule Set Range—Runs all rules in the rule set range defined by the First Rule Set Sequence Number text box and the Last Rule Set Sequence Number text box, inclusive.
- Run Single Rule—Runs a single rule as selected in the Rule Set Name and Rule Name lists.

Perform one of the following tasks:

- Click Run Now to run the calculations or clear data immediately. A confirmation message indicates that the job has started, and identifies the assigned taskflow ID.

Caution! Depending on the size and complexity of a model, this operation may take a significant amount of time.
- Click **Run Later** to schedule a date and time to run the calculations or clear data. See “Viewing the Management Ledger Job Library” on page 392.

  **Note:** If this option is not selected when the task is created, you will not be able to schedule the task.

7 Monitor the progress of the deployment using the taskflow ID.

**About Calculation (Calc) Scripts**

Calculation scripts detail all the calculations required for a model, and they must be generated for each model. They are generated when rules and model logic are defined for a model.

Calculation scripts are generated in the `$ARBORPATH/app/<application name>/` `<database name>` directory, on the machine where the configured Essbase server is running. If required, administrators can view calculation scripts on the Essbase console.
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About the Management Ledger Job Library

Subtopics

● Management Ledger Job Library Job Types
● Viewing the Management Ledger Job Library

The Management Ledger Job Library lists all currently submitted or scheduled jobs for all models and all users for Management Ledger Profitability applications.

Click any column heading in the Job Library to sort the jobs by that label. Click again to reverse the sort.

Management Ledger Job Library Job Types

There are five job types that can be processed for Management Ledger applications. The Job Details information on the Job Library changes, depending on the Job Type:

● Copy POV (POV_COPY)
  ○ Taskflow Id
  ○ Job Details: Configuration and other details relevant to that job type

  See “Copying Standard Profitability POVs” on page 72.

● Clear POV (POV_CLEAR)
  ○ Taskflow Id
  ○ Job Details: Configuration and other details relevant to that job type

  See “Clearing Selected Artifacts from Management Ledger POVs” on page 342.

● Delete POV (POV_DELETE)
  ○ Taskflow Id
  ○ Job Details: Configuration and other details relevant to that job type
See “Deleting Management Ledger POVs and All Artifacts” on page 343.

- **Cube Deployment (CUBE_DEPLOYMENT)**
  - Taskflow Id
  - Job Details: Name of the Essbase application, database options, and data options

See “Deploying Management Ledger Databases” on page 385.

- **Allocation Calc-Ledger (LEDGER_CALC)**
  - Taskflow Id
  - Job Details: Processing options, data POVs that were selected when the calculation was set, rules executed, and other calculation data

See “Managing Management Ledger Calculations” on page 387.

**Viewing the Management Ledger Job Library**

- To view the Management Ledger Job Library:
  1. From EPM Workspace, select **Navigate**, then **Applications**, then **Profitability**, and then select a Management Ledger application for which jobs have been submitted.
  2. In an open model, from **Task Area**, select **Job Status**, and then **Job Library** (Figure 51 on page 392).

Figure 51  Management Ledger Job Library

View the information for each job:
- **Job Id** — The system-assigned identification number for the job
- **User** — The User ID of the individual who submitted the task for processing
- **Application Name** — The name of the application for which the task is being run
- **Start Date/Time** — The date and time on which the job was submitted or was scheduled to run
- **End Date/Time** — The date and time on which the job completed, failed, or was stopped
- **Elapsed Time** — The difference between the Start Date/Time and the End Date/Time
- **Job Type** — The type of task that is running ("Management Ledger Job Library Job Types“ on page 391)
- **Status** — The current state of the taskflow, such as Running, Success, or Failure
- **Comment** — A user-entered note or details about that specific job. The Comment is entered when the task is submitted.
- **Errors**
- **Warnings**

4 Optional: Under **Job Details**, review the job options that were used for the execution of the highlighted job. The format of the details changes depending on the job type highlighted. The Processing Options, Custom Scripts, and POV options are displayed as applicable.

For additional information, see “Job Library Job Types” on page 311.

**Taskflow Id** is the system-generated task ID for the specific task, displayed in the format `<application name>:<task name><generated taskflow number>`. For example, the generated taskflow number may be displayed as Demo04_RunCalcs_D20111103T183447_fbe, where Demo04 is the application name, RunCalcs is the task, and D20111103T183447_fbe is the generated taskflow instance ID. See “Managing Detailed Profitability Taskflows” on page 313.

5 Optional: Use the Query By Example text box at the bottom of each column to locate a job by entering text in the Find field attached to the column in which it resides (see “Viewing the Management Ledger Points of View Manager Screen” on page 339, step 2).

6 Under **Job Finished**, view the date and time that the highlighted task was completed.

7 Under **ODL Task ID**, view the ID for the highlighted job to assist in locating error or warning messages in **hpcm.log**.

   In the **hpcm.log** file, use Find and the ODL Task ID to locate the start of the logging detail text for the selected job. After locating the start of the log entries, you can search down to find an “ERROR” in the file.

8 Optional: If required, click on **Stop** to end the highlighted task in Running state.

**Note:** This command is only available for Ledger Calculation jobs. While the task flow stops quickly after the button is pressed, activities that affect results may require additional time to ensure that the state of the data is consistent.
For detailed instructions on using EPM Workspace taskflows, see the *Oracle Hyperion Enterprise Performance Management Workspace User's Guide.*
About Management Ledger Queries and Reports

There are several ways to view and print data in Management Ledger Profitability models:

- You can view internal data tables for validating the model; for example the Rule Balancing and Model Validation task area screens. To create reports from these tables, click a button and export them to a Microsoft Excel file (Chapter 24, “Validating Management Ledger Models”).

- You can use the Manage Queries task area to build and manage Smart View queries to run against Essbase data cubes containing Profitability and Cost Management data. Then, you can click a button to launch Smart View with the query results (“Managing Smart View Queries in Management Ledger Profitability Applications” on page 396).

- You can generate preformatted system reports to see lists and descriptions of Management Ledger rule sets and rules or calculation statistics (“Creating and Using Management Ledger Reports” on page 402).

You can also use other Oracle reporting tools or third-party reporting tools to report against Essbase cubes to view calculation results:

- Oracle Hyperion Web Analysis
- Oracle Hyperion Financial Reporting
- Microsoft Excel, using Smart View

Using these reporting tools, you can generate reports to view exactly the information you require. The procedures in this section suggest steps you need to take to build the reports, but you must use the supporting documentation for the selected reporting tool for detailed instructions on creating and running reports. For details, see the other topics in the section.
Managing Smart View Queries in Management Ledger Profitability Applications

Subtopics

- Creating Custom Smart View Queries in Management Ledger Profitability Applications
- Running Management Ledger Profitability Queries
- Editing and Deleting Custom Queries in Management Ledger Profitability Applications

You can use the Manage Queries task area screen to create and organize Smart View queries against an application database for a variety of purposes. You can use these queries for management reporting, segmented profitability analysis, rule analysis, input data verification, and more. You can find data of interest without having to research the rule definitions or understand the system dimensions that control how calculated and input data is stored.

Queries can be saved and reused. They also can be exported and imported using Oracle Hyperion Enterprise Performance Management System Lifecycle Management.

You can launch some predefined Smart View integrations from the Rule Balancing screen. The launch data points are represented as blue hyperlinks in the Rule Balancing table. You can drill down further on input or allocation data. For example, you could drill down into certain costs after a calculation runs, or to examine input data that was used in the same run.

If any dimensions or dimension members are renamed or deleted, the Smart View queries that reference those dimensions become invalid. The query validation screen validates all queries, and displays an error message for any invalid queries ( ).

Only users provisioned as Interactive Users, Power Users, or Administrators can create, edit, or delete queries. In addition to those users, View Users can also run queries from the application.

Creating Custom Smart View Queries in Management Ledger Profitability Applications

Before creating a query, ensure a full Profitability and Cost Management environment is installed, configured, and running, including the following products:

- Oracle Hyperion Provider Services
- Oracle Hyperion Shared Services
- Essbase

You also need Microsoft Excel installed with Smart View on your computer.

To create a query:

1. From the Task Area, select Reporting, and then Manage Queries.

The Queries screen is displayed, showing all existing queries for all applications for which the user is provisioned as a View User, Interactive User, Power User, or Administrator (Figure 52 on page 397).
Figure 52  Manage Queries Task Area, Queries Screen

2 Click or select Actions, and then Create Query.
This action is not available to View Users.
The three-step query wizard opens.

3 In Step 1 of 3: Description, enter the following information for the new query and select Next:
   - Select the Application to be used for the query from the drop-down list.
   - Enter a Name for the query.

4 In Step 2 of 3: Program Context, select whether to use a program context (global context, rule set context, or a rule) to define dimensions. For more information about contexts, see Chapter 23, “Working with Management Ledger Allocations.”
   - If you selected Use Program Context?, enter POV information and then click Next.
   - If you did not select Use Program Context?, click Finish, and then skip to step 6, later in this procedure.

5 If you select Use Program Context? and click Next, Step 3 of 3: Dimensions is displayed. Select which program context to use, and then select from any lists that are presented. When selections are complete, click Finish.
Context choices are the following:
   - Use Global Context — Applies the default dimensions selected for all rule sets and rule in the model
   - Use Rule Set Context — Applies default dimensions selected for the specified rule set (requires a rule set name)
   - Use Rule — Applies rule-specific dimension information; requires a rule set name, a rule name, and a rule component (Source, Destination, Driver, or Offset)

After you click Finish, the Queries screen is displayed. The new query is listed.

6 Select a query and complete the custom query definition as described in the following steps.
7 Optional: On the Description tab, do the following if appropriate:

- Enter a Description for the query.
- Select Use Alias to display any assigned aliases for all dimensions in the query.
- Select Suppress Missing to set the data suppression option for the first query in Smart View, if required.

Note: If you select Suppress Missing, the Smart View option is set only for the first query run, not all queries. To set the option for subsequent drills into the data, set the option manually in Smart View.

8 Click Dimensions to review and edit dimension selections (Figure 53 on page 398).

By default, all dimensions in the application outline are displayed.

9 A default Position is assigned to each dimension. To change the position, select a dimension, open the Move To drop-down list, and then select the new position:

- Row
- Column
- Smart View POV

10 Optional: Use Move Up and Move Down to change the position of a highlighted dimension in the query within its Position.
11 Optional: Select a dimension and use the Member Selection area to add or delete members and change the column display.

The list displays all dimension members, including alternate hierarchies and the NoMember member. Because there are no restrictions on level, alternate hierarchy, shared or base member, any member may be selected.

12 When the query definition is complete, click to save it for further use.

To run, edit, or delete queries, see the following:

- “Running Management Ledger Profitability Queries” on page 399
- “Editing and Deleting Custom Queries in Management Ledger Profitability Applications” on page 401

Running Management Ledger Profitability Queries

Subtopics

- Running Custom Queries in Management Ledger Applications
- Running Queries from the Management Ledger Rule Balancing Screen

The topics in this section describe several ways to run queries and generate results in Management Ledger Profitability applications.

Running Custom Queries in Management Ledger Applications

Note: “Creating Custom Smart View Queries in Management Ledger Profitability Applications” on page 396 describes how to create a query.

Before running a query, the database must be deployed. Although the database does not need to be calculated before running the query, results will be missing if it is not.

You can run Management Ledger queries and display the results in Smart View for further analysis, validation, and editing.

➢ To run a query and launch it in Smart View:

1 In the Task Area, select Reporting, and then Manage Queries.

   The Queries screen is displayed, showing all existing queries for all applications for which the user is provisioned as a View User, Interactive User, Power User, or Administrator.

2 Select the query to run.

3 Click or select Actions, and then select Execute Query.

4 Smart View opens with query results.
Running Queries from the Management Ledger Rule Balancing Screen

You can launch some predefined query integrations from the Management Ledger Rule Balancing screen. The launch points are represented as hyperlinks defined on data in the screen. The hyperlinks in the columns represent values that have been contributed through rule calculations.

Click the hyperlinks to immediately access an analysis capability to analyze the calculations and determine whether areas may need to be repaired, and to explore details of any discrepancies or missing information.

➢ To access queries through the Rule Balancing screen:

1. From EPM Workspace, select Navigate, then Applications, then Profitability, and then select a Management Ledger Profitability application (model).

2. For most complete results, calculate the model before running the query.

3. With the model open, in Task Area, select Validate, and then Rule Balancing.

4. In the Rule Balancing screen, enter POV data and then select a Model View.

5. In the Rule Balancing table, click a blue hyperlink, for example for Allocation In.

When you click the hyperlink, results display in Smart View for further analysis and reporting.

Figure 54 Query Results in Smart View for Activities Allocations In
Optional: To modify the current POV, on the **POV_Linked_View** pane, click the down arrow beside any dimension listed for the current POV, and then click the ellipsis (...) to open a Member Selector. Select any members that you want to change, and then click **Refresh** to activate the POV change.

Review the results of the query.

Optional: To view a specific intersection, use the Zoom commands on the Essbase tab to drill down or back up to a specific intersection.

**Editing and Deleting Custom Queries in Management Ledger Profitability Applications**

- To edit queries:
  1. In the **Task Area**, select **Reporting**, and then **Manage Queries**.

     The **Manage Queries** screen is displayed, showing all existing queries for all applications for which the user is provisioned as an Interactive User, Power User, or Administrator.

  2. Select a query and then use the **Description** and **Dimension** tabs of the **Query Definition** area to refine the query ("Creating Custom Smart View Queries in Management Ledger Profitability Applications" on page 396).

  3. When the query edits are complete, click **Save** to save the query for future use.

- To delete queries from within Management Ledger applications:
  1. Ensure no other users require the query.

  2. In the **Task Area**, select **Reporting**, and then **Manage Queries**.

     The Queries screen is displayed, showing all existing queries for all applications for which you are provisioned.

  3. Select the query to delete, and then click **Remove** or select **Actions**, and then select **Remove Query**.

     **Note:** This action is available only to Interactive Users, Power Users, and Administrators.

  4. Respond **Yes** to the confirmation message.

     The selected query is removed from the **Queries** screen.
Creating and Using Management Ledger Reports

Subtopics

- Generating Management Ledger System Reports
- Reporting Using Smart View with Management Ledger Profitability Applications

You can generate system reports from within Management Ledger Profitability models. You can also create Essbase reports from within Smart View and use other Oracle tools to prepare reports directly from an Essbase outline. See the listed topics for more information.

Generating Management Ledger System Reports

Management Ledger system reports show one of the following for a selected model:

- **Program Documentation** — Calculation rule sets and rules plus rule definitions
- **Dimension Statistics** — Number of dimension members, number of level 0 members, and number of hierarchy levels for each dimension in the current application.
- **Execution Statistics** — Runtime statistics collected for the selected Ledger Calculation job following the end of the job

To generate a Management Ledger system report:

1. In an open Management Ledger model, in the Reporting task area, select System Reports.
2. In the System Reports screen, select one of the following for each setting:
   - **Report Name** — Program Documentation, Dimension Statistics, Execution Statistics
   - **Output Type** — PDF (Adobe PostScript), Microsoft EXCEL, Microsoft WORD, XML, HTML
3. Enter the following for Program Documentation and Execution Statistics reports in the Parameter box:
   - **Program Documentation** — POV information
   - **Execution Statistics** — Job Id from the Job Library task area

   **Note:** Dimension Statistics reports do not require Parameter information.
4. Indicate whether to open or save the report.

See these sections to review report examples:

- “Management Ledger Program Documentation Report Example” on page 402
- “Management Ledger Dimension Statistics Report Example” on page 403
- “Management Ledger Execution Statistics Report Example” on page 404

Management Ledger Program Documentation Report Example

Program Documentation reports show calculation rule sets and rules plus rule definitions.
Management Ledger Dimension Statistics Report Example

Dimension Statistics reports show the number of dimension members, number of level 0 members, and number of hierarchy levels for each dimension in the current application. Potential values are possible mathematical combinations that might not all be used.
Management Ledger Execution Statistics Report Example

Execution Statistics reports show runtime statistics collected for the selected Ledger Calculation job type following the end of the job.

Figure 57 Example of a Management Ledger Profitability Execution Statistics Report

<table>
<thead>
<tr>
<th>Rule Set Name</th>
<th>Rule Name</th>
<th>Duration</th>
<th>Start Time</th>
<th>End Time</th>
<th>Elapsed Time</th>
<th>Number of Threads</th>
<th>Thread Number</th>
<th>Potential Sources</th>
<th>Potential Destinations</th>
<th>Potential Allocations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupancy Expense Allocations</td>
<td></td>
<td>19:14:21</td>
<td>18:14:35</td>
<td>00:00:06</td>
<td>1</td>
<td>200</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupancy Expense Allocations</td>
<td>Facilities Expense Adjustment</td>
<td>19:14:21</td>
<td>18:14:35</td>
<td>00:00:06</td>
<td>1</td>
<td>200</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupancy Expense Allocations</td>
<td>Rent and Utilities Realignment</td>
<td>19:14:25</td>
<td>18:14:50</td>
<td>00:00:25</td>
<td>1</td>
<td>505</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturing COGe Related Expense Assignment</td>
<td></td>
<td>19:14:25</td>
<td>18:14:50</td>
<td>00:00:25</td>
<td>1</td>
<td>505</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturing COGe Related Expense Assignment</td>
<td>Product Material Allocation</td>
<td>19:14:25</td>
<td>18:14:50</td>
<td>00:00:25</td>
<td>1</td>
<td>505</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activity Costing</td>
<td></td>
<td>18:15:01</td>
<td>18:15:05</td>
<td>00:00:04</td>
<td>1</td>
<td>308</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activity Costing</td>
<td>Activity Costing Assignments</td>
<td>18:15:02</td>
<td>18:15:05</td>
<td>00:00:03</td>
<td>1</td>
<td>308</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reporting Using Smart View with Management Ledger Profitability Applications

Smart View provides a Microsoft Office interface for Essbase and other data sources. From Microsoft Excel, Word, or PowerPoint, you connect to Essbase and access Smart View functionality through the Smart View ribbon that is displayed on the Microsoft Office product toolbars when Smart View is installed. You can generate reports that can be displayed as a grid, chart, or scrollable table.

This topic is designed to provide an overview of how to create reports with Smart View, but you must refer to the Oracle Smart View for Office User’s Guide for detailed instructions on setting up reports and using Smart View to view the results.

➢ To report using Smart View:

1. Generate and calculate the Essbase cube for the model, as outlined in Chapter 25, “Deploying and Calculating Management Ledger Models.”

2. Open Microsoft Excel.

3. In Oracle Smart View for Office, select Panel, and then Shared Connections, and connect to the Essbase database. See the Oracle Smart View for Office User’s Guide.

4. Create the report as outlined in the Oracle Smart View for Office User’s Guide.
**Note:** If you are skilled at working with Essbase outlines, you can also generate reports directly in Essbase. See the Essbase documentation for instructions.
Appendices

In Appendices:

- Creating Profitability and Cost Management Applications
- Comparison between Standard and Detailed Profitability Applications
A

Creating Profitability and Cost Management Applications

Profitability and Cost Management is an integral part of Oracle Hyperion Enterprise Performance Management Workspace, and uses common software to manage data and security. After installation, an administrator or user with appropriate security provisioning must perform a number of steps to create the first Profitability and Cost Management application. After the application is created, data or data definitions must be imported into Profitability and Cost Management. This first application is usually created using Performance Management Architect. In instances where Oracle Hyperion EPM Architect cannot be installed, the Profitability Application Manager is used with Essbase to create Profitability and Cost Management applications.

For information about creating applications using these tools, see Appendix A, Creating the First Profitability and Cost Management Application after Installation, and Appendix B, Creating Profitability and Cost Management Applications Using the Profitability Applications Feature, in the Oracle Hyperion Profitability and Cost Management Administrator's Guide.
Comparison between Standard and Detailed Profitability Applications

The following table compares features and abilities of two types of Oracle Hyperion Profitability and Cost Management applications:

- Standard Profitability
- Detailed Profitability

The type of application that you select depends on the type of modelling that you require to effectively manage your organization's models. Depending on the application, you may use one or the other.

For a description of the third type of application, Management Ledger Profitability, see “Management Ledger Profitability and Cost Management Applications” on page 26.

<p>| Table 18 Comparison between Standard and Detailed Profitability Applications |
|---------------------------------|------------------|------------------|
| General Application Information | Standard         | Detailed         |
| Primary Use                     | Cost Development | Cost and Revenue Application |
| Focus                           | Contribution analysis | Profitability analysis |
| Database                        | Oracle Essbase and Relational databases | Relational database only. The pre-existing customer database is mapped to Detailed Profitability |
| Volume of Target Objects        | Hundreds of thousands to millions of unique targets as defined by dimension intersections in the target model stages. Practical limits are based on dimension sizes, with dimensions larger than 25,000 members considered to be very large. | Millions to hundreds of millions of unique targets as defined by row count in the target table. Practical limits are not bounded by dimension sizes because the target row is not required to be defined by a unique intersection of dimensions. |
| Allocations                     | Multi-Step allocations For example, you can follow allocations from department to department, department to activity, product and so on. | Single step allocation of pools or rates to profit objects May use data from Multi-Step Standard model or external data |</p>
<table>
<thead>
<tr>
<th></th>
<th>Standard</th>
<th>Detailed</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Dimensions</td>
<td>Measures AllocationType</td>
<td>MeasuresDetailed</td>
</tr>
<tr>
<td>Genealogy Allocations</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Trace Allocations</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Intrastage Allocations</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Reciprocal Allocations</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Model Building</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Stages                               | Up to nine stage, with up to 3 dimensions in each stage | Only two stages:  
  - Source - Up to 5 Source Dimensions  
  - Destination - Up to 25 Destination Dimensions |
| Model Layers                         | Cost and Revenue                | No                           |
| Data Entry                           | Yes                             | No                           |
| Pre-Defined Driver Measures          | Yes                             | No                           |
| Driver Data Report                   | Yes                             | No                           |
Glossary

!  See bang character (!).

#MISSING  See missing data (#MISSING).

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  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.

accounts dimension  A dimension type that makes accounting intelligence available. Only one dimension can be defined as Accounts.

active service  A service whose Run Type is set to Start rather than 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 created on-the-fly by an end user.

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 (JE).

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 residing 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  An alternative name. For example, for a more easily identifiable column descriptor you can display the alias instead of the member name.

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 and/or reporting requirements.

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 within Profitability and Cost Management.

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  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 point in 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  A container that holds a group of similar Financial Reporting documents. Books may specify dimension sections or dimension changes.

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 two 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 displays information to the user 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  The process of aggregating data, or of running a calculation script on a database.

Calculation Manager  A calculation module with which Planning, Financial Management, and Essbase users can design, validate, and administer business rules in a graphical environment.

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  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  Depicts how the elements that form the corporate strategy relate and how they work together to meet the organization’s strategic goals. A Cause and Effect map tab is automatically created for each Strategy map.

CDF  See custom-defined function (CDF).

CDM  See custom-defined macro (CDM).

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 A graphical representation of spreadsheet data. The visual nature expedites analysis, color-coding, and visual cues that aid comparisons.

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 that where 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; useful for side-by-side category analysis; 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 A vertical display of information in a grid or table. A column can contain data from one field, derived data from a calculation, or textual information.

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.

configuration file The security platform relies on XML documents to be configured by the product administrator or software installer. The XML document must be modified to indicate meaningful values for properties, specifying locations and attributes pertaining to the corporate authentication scenario.

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) The consolidation file is 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 Identifies 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.

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 group 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 the 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 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 with the dollar (1 * 0.923702). After conversion, the European euro amount is .92.

Currency Overrides In any input period, the selected input method can be overridden to enable input of that period’s value as Default Currency/Items. To override the input method, enter a pound sign (#) either 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 (CDM).

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 (CDF).

cycle through To perform multiple passes through a database while calculating it.

dashboard A collection of metrics and indicators that provide an interactive summary of the 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**  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, there is one FDM data load location 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**  Prevents changes to data according to specified criteria, such as 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**  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 types of analysis 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.

**Default Currency Units**  Define the unit scale of data. For example, if you select to define the analysis in Thousands, and enter “10”, this 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.

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**destination**  (1) For Business Rules and Calculation Manager, an intersection within the database where allocated values are stored. (2) Within a Profitability and Cost Management assignment, the receiving point for allocated values.

**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 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, 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-eat**  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**  A driver is an allocation method that describes the mathematical relationship between the sources that utilize the driver, and the destinations to which those sources allocate cost or revenue.

**duplicate alias name**  A name that occurs more than once in an alias table and that 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**  The multiple occurrence 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**  A member 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**  A member 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 whenever 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` and `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**: A numeric value for converting one currency to another. For example, to convert 1 USD into EUR, the exchange rate of 0.8936 is multiplied with the U.S. dollar. The European euro equivalent of $1 is 0.8936.

**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 one point in 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's Hyperion applications with user information stored outside the applications, typically in a corporate directory such as MSAD or NTLM.

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 Characters, such as commas or tabs, that separate 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.

format string In Essbase, a method for transforming the way cell values are displayed.

formula A combination of operators, functions, dimension and member names, and numeric constants calculating database members.

frame An area on the desktop. There are 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 A routine that returns values or database members.

gadget Simple, specialized, lightweight applications that provide easy viewing of EPM content and enable access to core Reporting and Analysis functionality.

genealogy 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 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 POVs 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 Install_Homes, to an Install_Home. The host properties are configured from the CMC.

**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, 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**  Indicates changes in child entities consolidating into parent entities.

**implied share**  A member with one or more children, but only one is consolidated, so the parent and child share a value.

**import format**  In FDM, defines the structure of the source file which 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**  Indicates entities deactivated from consolidation for the current period.

**inactive user**  A user whose account has been 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. 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**  Process that is run to move data between EPM System products using Shared Services. Data integration definitions specify the data moving between a source application and a destination application, and 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, etc.), database software, the database server network address, and database user name. Administrators create and publish Interactive Reporting connection files (.oce).
**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 if the accounts are in, or out, of 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 non-intersecting dimensions, the non-intersecting 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**  Assignments in the financial flow that are assigned to objects 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 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.

**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 Pages.

**KeyContacts gadget**  Contains a group of Smart Space users and provides access to Smart Space Collaborator. For example, you can have a KeyContacts gadget for the marketing team and another for the development team.

**latest**  A Spreadsheet key word 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 the same layer, though they are in the same generation.

**layout area**  Used to designate 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 of liability accounts include accrued expenses, accounts payable, and long term debt.

lifecycle management  The process of managing application information from inception to retirement.

Lifecycle Management Utility  A command-line utility for migrating applications and artifacts.

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 task flow, 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 (LRO).

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 and 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  Data models 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, contains one or more logic accounts that are generated after a source file is loaded into FDM. Logic accounts are calculated accounts that are 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 (LRO).

managed server  An application server process running in its own Java Virtual Machine (JVM).

manual stage  A stage that requires human intervention to complete.

Map File  Used to store 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 the current position on a Strategy, Accountability, or Cause and Effect map, indicated by a red outline.

Marginal Tax 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  Data definition language used by Essbase for batch or interactive system-administration tasks.

MaxL DML  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)  The language that give instructions to OLE DB for OLAP-compliant databases, as SQL is used for relational databases. When you build the OLAPQuery section’s Outliner, Interactive Reporting Clients translate requests into MDX instructions. When you process the query, MDX is sent to the database server, which returns records that answer the query. See also SQL spreadsheet.

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 such members as Jan, Feb, and Qtr1.

member list  A named group, system- or user-defined, that references members, functions, or member lists within a dimension.

member load  In 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 Integration Services, a template containing the structure and rules for creating an Essbase outline from an OLAP model.

**metric** A numeric measurement computed from business data to help assess business performance and analyze company trends.

**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** The process of copying applications, artifacts, or users from one environment or computer to another; for example, from a testing environment to a production environment.

**migration audit report** A report generated from the migration log that provides tracking information for an application migration.

**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 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.

**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.

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**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 non-dimensional 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  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.

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.

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.

offset  In accounting, an offset is reducing the value in one account (a withdrawal) to balance an increase in another account (a deposit).

OK status  A consolidation status indicating that an entity has been consolidated, and that data has not changed below it in the organization structure.

OLAP Metadata Catalog  In 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 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.

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. 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**  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 both entities and associated with at least one node, they have entity, node, and parent information associated with them.

**partition area**  A sub cube 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**  Identifies the extent to which an entity is controlled within the context of its group.

**percent ownership**  Identifies 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 the 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  The ability to 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  Planners, who comprise the majority of users, 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.

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 prior to 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 the 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 EPM System 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 (PVA).

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  URL 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. Can be balanced, balanced by entity, or unbalanced.

Related Accounts  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  Stores 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, and 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. From highest to lowest, these levels are as follows: the entire system (Essbase Server), applications on Essbase servers, 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 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, Netegrity SiteMinder) that protects corporate Web resources.

security platform A framework enabling 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 Part of the Shared Services database, the Shared Services Registry stores and re-uses information for most installed EPM System products, including installation directories, database settings, deployment 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 which 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. For example, not all customers have data for all products. *Contrast with dense dimension.*

**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**  A task description that forms one logical step within a taskflow, usually performed by an individual. A stage can be manual or automated.

**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 RDBMSs.

**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, then use the template as the basis for many regular journals.

**Status bar**  The status bar at the bottom of the screen displays helpful information about commands, accounts, and the current status of the 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 non-sequential, 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, 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.

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suppress rows  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 connect to a single instance simultaneously.

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  Synchronizes 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  Transfers data from an application’s 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  Represents business processes in the taskflow management system. Consists 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  Represents a single instance of a taskflow including its state and associated data.

taskflow management system  Defines, creates, and manages the execution of a taskflow including: definitions, user or application interactions, and application executables.

taskflow participant  The resource who 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 the Initial Balance of Taxes Paid entries have taken place in the period before the first Strategic Finance time period.


template  A predefined format designed to retrieve particular data consistently.

text measure  A data type that allows measure values to be expressed as text. 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.

time dimension  Defines the time period that the data represents, such as fiscal or calendar periods.

time events  Triggers for execution of jobs.

time scale  Displays metrics by a specific period in time, 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  Displays the Strategic Finance name, the file name, and the scenario name Version box.

toast message  Messages that appear in the lower right corner of the screen and fade in and out.

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. The top-level member name is generally the same as the dimension name if a hierarchical relationship exists.

trace allocations A feature of Profitability and Cost Management that enables you to visually follow the flow of financial data, either forwards or backwards, from a single intersection throughout the model.

trace level Defines the level of detail captured in the 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, and measures, and ultimately, to its physical source elements.

traffic lighting Color-coding of report cells, or pins based on a comparison of two dimension members, or on fixed limits.

transformation (1) Transforms artifacts so that they function properly in the destination environment after application migration. (2) In data mining, modifies 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 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 which 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 non-shared 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.

user variable Dynamically renders data forms based on a user's member selection, displaying only the specified entity. For example, user variable named Department displays specific departments and employees.

user-defined attribute (UDA) User-defined attribute, associated with members of an outline to describe a characteristic of the members. Users can use UDAs to return lists of members that have the specified UDA associated with them.
**user-defined member list**  A named, static set of members within a dimension defined by the user.

**validation**  A process of checking a business rule, report script, or partition definition against the outline to make sure that the object being checked is valid. For example, in FDM, validation rules ensure that certain conditions are met after data is loaded from FDM to the target application.

**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**  Difference between two values (for example, planned and actual value).

**version**  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**  Representation of either a year-to-date or periodic display of data.

**visual cue**  A formatted style, such as a font or a color, that highlights specific types of data values. 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**  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 re-usable 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.

**work flow**  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 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).

**workbook**  An entire spreadsheet file with many worksheets.

**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 (XML)*.

**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**  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 the ability to compare charts at a glance.

**Zero Administration**  Software tool that identifies version number of the most up-to-date plug-in on the server.

**ZoomChart**  Used to view detailed information by enlarging a chart. Enables you to see detailed numeric information on the metric that is displayed in the chart.