Oracle® In-Memory Cost Management Cloud Service

User's Guide

Release 18.2

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Oracle In-Memory Cost Management Cloud Service User's Guide, Release 18.2

Part No. E76506-02

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Preface

Intended Audience

Welcome to Release 18.2 of the *Oracle In-Memory Cost Management Cloud Service User's Guide.*

See Related Information Sources on page x for more Oracle E-Business Suite product information.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Structure

Related Information Sources

Integration Repository

The Oracle Integration Repository is a compilation of information about the service endpoints exposed by the Oracle E-Business Suite of applications. It provides a complete catalog of Oracle E-Business Suite's business service interfaces. The tool lets users easily discover and deploy the appropriate business service interface for integration with any system, application, or business partner.

The Oracle Integration Repository is shipped as part of the Oracle E-Business Suite. As your instance is patched, the repository is automatically updated with content appropriate for the precise revisions of interfaces in your environment.

Oracle Advanced Supply Chain Planning Implementation and User's Guide

Advanced Supply Chain Planning (ASCP) is a comprehensive, Internet-based planning solution that suggests when and where supplies (inventory, purchase orders and work orders) should be deployed within an extended supply chain. The key capabilities of ASCP are optimization, planning, and scheduling. Short-term detailed scheduling and long-term aggregate planning are supported.

Oracle Analytics Cloud Service

Oracle Analytics Cloud Service is a scalable and secure public cloud service that provides a full set of capabilities to explore and perform collaborative analytics for you, your workgroup, and your enterprise. With Oracle Analytics Cloud Service, you also get flexible service management capabilities, including fast setup, easy scaling and patching, and automated lifecycle management with standards-based REST APIs.

Oracle Bills of Material User's Guide

This guide describes how to use Oracle Cost Management in either a standard costing or average costing organization. Cost Management can be used to cost inventory, receiving, order entry, and work in process transactions. It can also be used to collect transaction costs for transfer to Oracle Projects. Cost Management supports multiple cost elements and multiple subelements. It also provides comprehensive valuation and variance reporting.

Oracle Cost Management User's Guide

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transaction costs for transfer to Oracle Projects. Cost Management supports multiple cost elements and multiple subelements. It also provides comprehensive valuation and variance reporting.

Oracle General Ledger User's Guide

This guide explains how to plan and define your chart of accounts, accounting period types and accounting calendar, functional currency, and set of books. It also describes how to define journal entry sources and categories so you can create journal entries for your general ledger. If you use multiple currencies, use this manual when you define additional rate types, and enter daily rates.

Oracle Smart View for Office User's Guide

Smart View provides a common Microsoft Office interface for Oracle Hyperion products and data sources. Using Smart View, you can view, import, manipulate, distribute, and share data from these data sources in Microsoft Excel, Word, Outlook, and PowerPoint.

Oracle Inventory User's Guide

This guide describes how to define items and item information, perform receiving and inventory transactions, maintain cost control, plan items, perform cycle counting and physical inventories, and set up Oracle Inventory.

Oracle Order Management User's Guide

This guide describes how to enter sales orders and returns, copy existing sales orders, schedule orders, release orders, confirm shipments, create price lists and discounts for orders, run processes, and create reports.

Oracle Process Manufacturing Cost Management User's Guide

This guide provides information for costing all material and resource transactions in process enabled Inventory organizations. The Process Costing application is used by cost accountants to capture and review the manufacturing costs incurred in their process manufacturing businesses.

Oracle Work in Process User's Guide

This guide describes how Oracle Work in Process provides a complete production management system. Specifically this guide describes how discrete, repetitive, assemble-to-order, project, flow, and mixed manufacturing environments are supported.

Do Not Use Database Tools to Modify Oracle E-Business Suite Data

Oracle STRONGLY RECOMMENDS that you never use SQL*Plus, Oracle Data Browser, database triggers, or any other tool to modify Oracle E-Business Suite data unless otherwise instructed.

Oracle provides powerful tools you can use to create, store, change, retrieve, and maintain information in an Oracle database. But if you use Oracle tools such as SQL*Plus to modify Oracle E-Business Suite data, you risk destroying the integrity of your data and you lose the ability to audit changes to your data.

Because Oracle E-Business Suite tables are interrelated, any change you make using an Oracle E-Business Suite form can update many tables at once. But when you modify Oracle E-Business Suite data using anything other than Oracle E-Business Suite, you may change a row in one table without making corresponding changes in related tables. If your tables get out of synchronization with each other, you risk retrieving erroneous information and you risk unpredictable results throughout Oracle E-Business Suite.

When you use Oracle E-Business Suite to modify your data, Oracle E-Business Suite automatically checks that your changes are valid. Oracle E-Business Suite also keeps track of who changes information. If you enter information into database tables using database tools, you may store invalid information. You also lose the ability to track who has changed your information because SQL*Plus and other database tools do not keep a record of changes.

1

Overview

Overview of In-Memory Cost Management Cloud Service

Oracle In-Memory Cost Management Cloud Service provides tools for a full approach to maximizing planning costs and profit margins by enabling near real-time insight into all aspects of cost management in Discrete Industries and Process Industries. In-Memory Cost Management Cloud Service's extreme performance is possible because of the technical innovations.

Cost accountants, finance, and operations managers can use In-Memory Cost Management Cloud Service to quickly perform what-if simulations on complex cost data and instantly visualize the impact of changes to their business. Specifically designed and optimized for Oracle In-Memory technology, In-Memory Cost Management Cloud Service provides a suite of solutions to perform complex cost analyses, identify optimal profit margins, and perform cost planning and forecasting so that companies can make decisions in time to capture the highest possible profits, safeguard current margins and identify optimal future margins, streamline financial overview across the supply chain, and increase financial close efficiency.

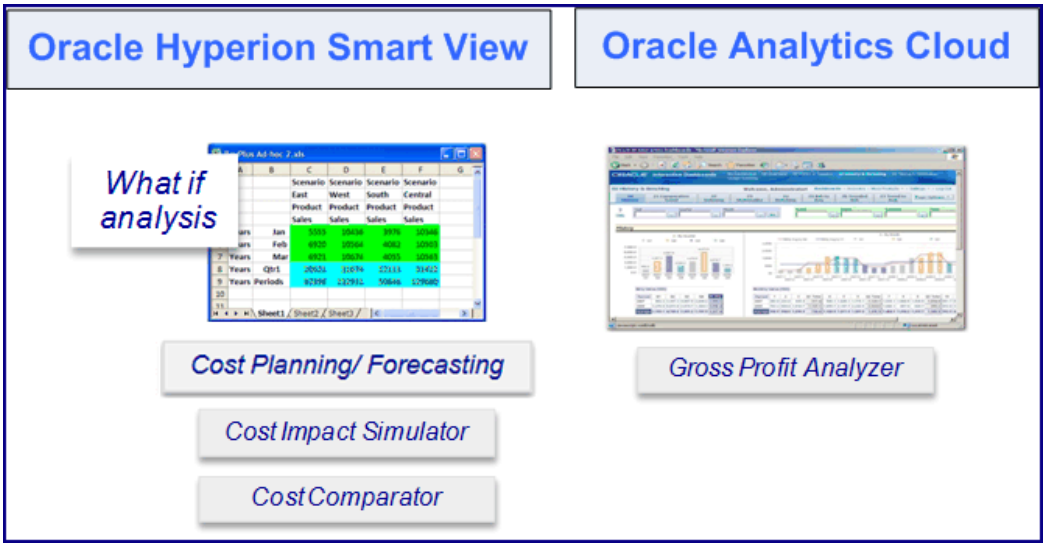
When analyzing large volumes of data and performing complex queries from multiple tables, performance can be severely degraded using traditional disk based technology. Businesses require faster access to information to make reliable decisions for their organization. In-memory processing enables organizations to have immediate access to simulation results and improve query performance by using multidimensional databases, or data cubes (multidimensional extensions). This enables businesses to adapt to continuously changing market needs to efficiently manage the supply chain. Oracle In-Memory Cost Management Cloud Service uses the following architecture and technical systems:

- Oracle Database 12c Database In-Memory Option delivers extreme performance for all types of database workloads including Online Transaction Processing (OLTP), Batch, and consolidation of mixed workloads.

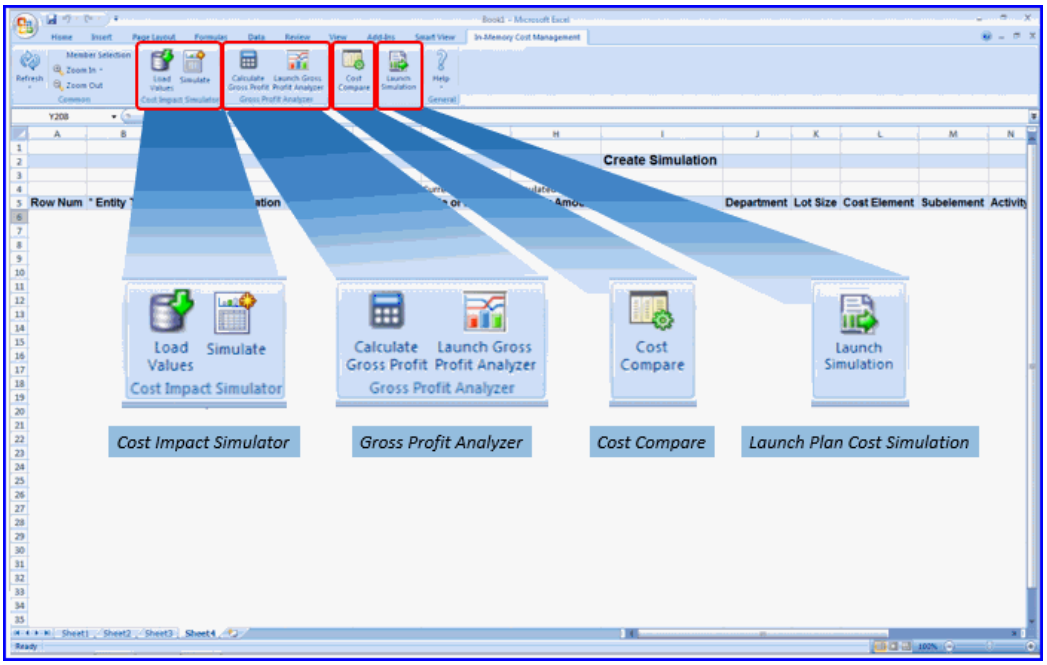
- Oracle Smart View provides a common interface designed for In-Memory Cost

Management Cloud Service enabling you to view, import, manipulate, distribute, and share data in Microsoft Office Excel. The Smart View Provider servlet is deployed in WebLogic server which interacts with the Cost Management Engine through Java Cloud Service (JCS).

- Oracle Analytics Cloud Service delivers a set of tools for reporting, query and multidimension analysis, online analytical processing, and dashboards.



In-Memory Cost Management Cloud Service provides a set of tools leveraging cost planning, cost impact simulations, profit analysis, and cost comparisons.



- **Cost Planning and Cost Plan Analysis**

  Oracle Cost Planning provides a set of features that accurately assess all costs in a business. You can define enterprise-wide cost scenarios using cost plans that let you analyze costs derived from external parameters and historical trends. Cost plans trace all costs allocated to products using allocation rules and cost drivers. Cost Planning data is analyzed for item, overhead, and resource costs, which you can then view on Smart View worksheets and on Oracle Analytics Cloud dashboards. Results can be moved to the Oracle Analytics Cloud Service dashboards. See: Overview of Cost Planning Cloud Service, page 3-1 and Overview of Cost Plan Analysis, page 4-1

- **Cost Impact Simulator (CIS)**

  Simulations show the impact of product cost variations from bills of materials, routings, resources, overheads, formulas, and recipes. The Cost Impact Simulator is used for analyzing the impact on inventory, WIP, in transit, cost of good sold values, and gross profit margins originating from cost changes to items, resources, and overheads. You have the ability to perform comprehensive what-if analysis on complex multi level bills of materials, routings, formulas, and recipes in near real-time. The CIS tool replaces the manual labor intensive process of translating the impact of cost changes into the price list. You can investigate the impact of a cost change by identifying the cost components and supplying their new costs; the tool then provides you with the all of the items affected by this change and provides the new costs for these items. See: Overview of Cost Impact Simulations, page 5-1

- **Gross Profit Analyzer (GPA)**

The Gross Profit Analyzer enables you to evaluate profit and do multi-dimensional analysis on current and future gross margins and gross profits. The Gross Profit Analyzer uses Analytics Cloud Service (ACS) technology to provide this capability. There are two functional flows for invoking the Gross Profit Analyzer:

- You can navigate to the Gross Profit Analyzer to analyze the impact of costs derived from cost plans.

- Invoke the dashboard after simulating a change in cost in the Cost Impact Simulator.

See: Overview of Analyzing Gross Profits, page 6-1

- **Cost Comparison Tool**

  The comparison tool provides detailed cost elemental comparison and deviations across entities and multiple locations. Cost changes impact product margins and price. You can investigate deviations and take corrective actions to mitigate cost overruns. You can compare cost structures, cost based bills of material, routing costs of finished goods, recipes, and formulas in a side by side view. See: Overview, Searching, and Viewing Costs for Comparisons, page 7-1

2

Setup and Administration

Overview of Setup and Administration

A number of tasks are performed to set up In-Memory Cost Management Cloud Service. Several of these tasks are set up in the Administration region. The Administration region provides three administrative related areas for managing your organization including Background Processes, Security, and Configuration. The following is a list of tasks to be performed for setup:

- Installation: See: Installing In-Memory Cost Management Cloud Service, page C-1
- Application Roles: An application role provides user access to or restrictions for functions, see: Application Roles, page 2-2
- User Access: The Security page is used to set user access by organization, see: Security, page 2-5
- Parameter Definition: The Configuration page is used to set values for parameters and specifying how In-Memory Cost Management Cloud Service processes data. See: Configuration, page 2-6
- Formatting: The Cost Impact Simulation and Cost Comparison pages use Oracle Smart View for Office with Microsoft Excel for investigating costing data in your organization. For improved readability, you can set spreadsheet cell style color and text options appearing in the worksheets you create. See: Smart View Cell Formatting, page 2-10
- Data Sources: You connect directly to active connections through the Smart View panel, see: Connecting to Data Sources, page 2-13

Application Roles

An application role comprises a set of privileges determining what users can see and do. The assigned role provides user access or restrictions for functions. For example, in order to use the Gross Profit Analyzer and the Impact on Gross Profit dashboards, you need to be assigned the specific profitability role. If this role is not assigned, access is denied. Administrators configure what users see and do in Oracle Analytics Cloud in the Application Role Management page. See: Managing What Users Can See and Do, *Oracle Cloud Preparing Data in Oracle Analytics Cloud*

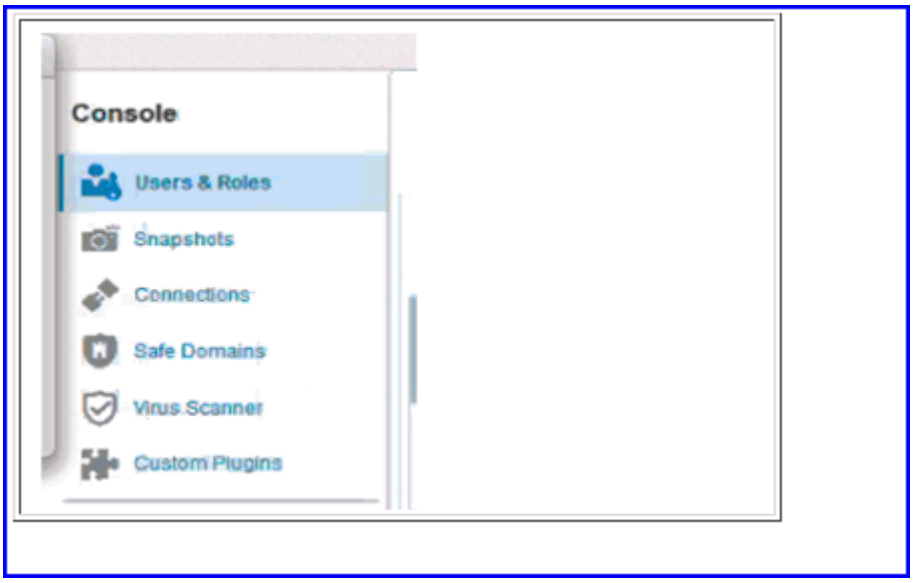
The following application roles are available in Oracle In-Memory Cost Management Cloud Service:

Name	Display Name	Description	Accessible Functionality
CMI_BACKGROUND_JOB_ROLE	Background Jobs Role	Background Jobs Role - In Memory Cost Management	Enables access to the Background Process region of the Administration page. Users with this role can schedule, submit, and search background process jobs.
CMI_INTEGRATOR_ROLE	Integrator	Integrator - In Memory Cost Management	Enables access to the REST web services APIs.
CMI_PLANNING_ROLE	Cost Planner	Cost Planner - In Memory Cost Management	Enables access to the Cost Planning features including creating and searching cost plans, allocation pools, allocation scopes, and allocation rules. This role also enables users to access cost plan analyzer reports.

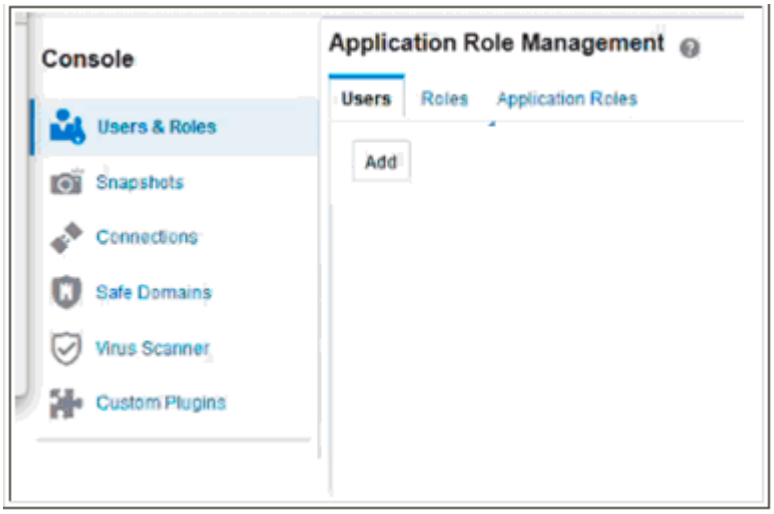
Name	Display Name	Description	Accessible Functionality
CMI_PROFITABILITY_ROLE	Profitability Analyzer	Profitability Analyzer - In Memory Cost Management	Enables access to the profitability dashboards - Gross Profit Analysis and Impact on Gross Profit. This role is also required for the Oracle Analytics Cloud Service Suite for the user.
CMI_SIMULATOR_ROLE	Cost Simulator	Cost Simulator - In Memory Cost Management	Enables access to simulation and cost comparison functionality.
CMI_ADMIN_ROLE	Administrator	Administrator - In Memory Cost Management	Enables access to all functionality including organization access security and configuration setup.

To add a user and a role for Oracle Analytics Cloud Service Security Access:

1. Navigate to the Oracle Analytics Cloud Console.
2. Select Users & Roles.



3. To add a user, select the Users tab and click Add.



4. Enter the following information:
   - User name used to sign in
   - User's first name and last name
   - A default password

     The user enters this default password the first time they sign in, and need to change this password as soon as possible.

5. Save your work.

6. Select Application Roles from the menu for this user.

7. Select Roles, and click Add.

8. Enter the name for the role, or select Search to specify the roles this user is allowed to do.

   Important: For employees using the Gross Profit Analyzer and Impact on Gross Profit dashboards, assign the CMI_PROFITABILITY_ROLE.

9. Save your work.

Security

The Security region enables you to define and regulate data access for user roles and organizations. You can:

- View the organization list associated with users
- Add and remove organization access

To search and set user role access:

1. Navigate to the Security page.

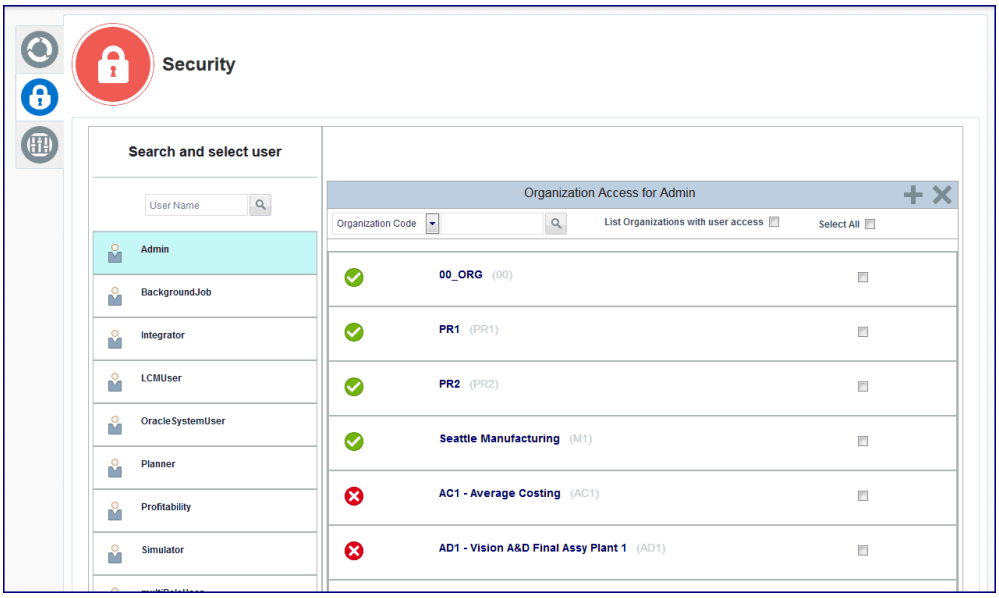
   All the user records appear in the Search and select user column.

2. Enter a User Name, or a portion of a user name, and select the Search icon to filter the record display.

   The results of your query appear on the page.

   For the selected record, the Organization Access for Admin section displays organizations for which access is granted with a check mark, and organizations for which access denied with an X.

3. You can filter this list by entering search criteria for either Organization Code or Organization Name, and selecting the Search icon.



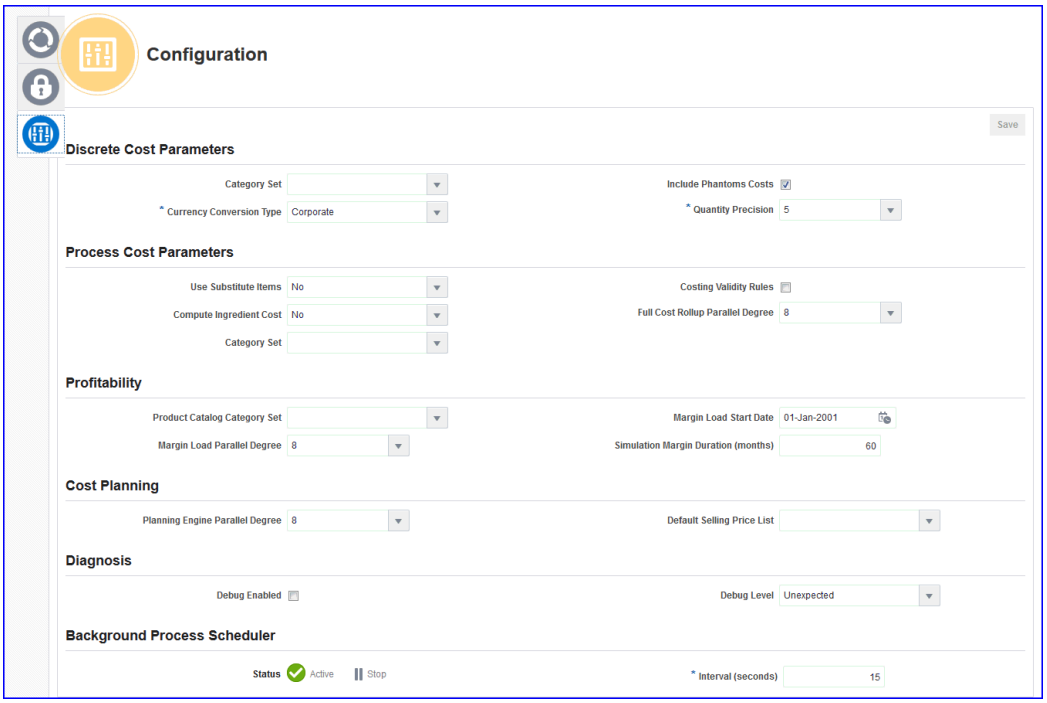
4. Enable the List Organizations with User Access check box to view only the organizations the selected user has access.

5. Add or remove organization access for user records by selecting the check box for an organization record; or enable the Select All check box to select all the organizations in the list.

    - Click Add Organization Access (plus icon) for adding organization access.
    - Click Delete Organization Access (X icon) for removing organization access.

Configuration

The Configuration page enables you to set default values and configure how In-Memory Cost Management Cloud Service processes data.



The following parameters are listed and configured on this page:

Parameter Name	Parameter Values
Discrete Cost Parameters—configures values for the cost roll up for discrete manufacturing and sets decimal precision.	• Category Set: Specifies the default category set to use if the Category Set field is left blank in the Organization Summary, Item Cost Details, and View Summary pages. This value is used rendered cost plan analyzer reports. • Currency Conversion Type: Specifies the currency conversion type used by the Gross Profit Analysis and the Cost Planning processes. • Include Phantom Costs: Sets flag to include phantom material and overhead costs into the parent assembly costs. • Quantity Precision: Sets the decimal precision of the quantities shown in Smart View pages.

Parameter Name	Parameter Values

Process Cost Parameters—sets values for the cost rollup for process manufacturing.	• Use Substitute Items: Specify whether to use a substitute instead of the original formula item and how to determine the effective date for the substitution. Choices are:
	  • No
	  • Yes—use period start date as effective date
	  • Yes—use period end date as effective date
	• Compute Ingredient Cost: Specifies if you want to recompute missing ingredient costs using source rules. Choices are:
	  • No
	  • Yes—in detail
	  • Yes—in summary
	• Category Set: Specifies the default category set to use if the Category Set field is left blank in the Organization Summary, Item Cost Details, and View Summary pages. This value is used rendered cost plan analyzer reports.
	• Costing Validity Rules: If enabled, only costing validity rules are used in cost rollups.
	• Full Cost Rollup Parallel Degree: For a future release.

Parameter Name	Parameter Values
Profitability—configures values used for simulations for estimated costs and impacts on the cost of the product.	• Product Catalog Category Set: Specifies the category set to use when building the category hierarchy for the product dimension in the Gross Profit Analysis (GPA). If left null, the default category set for each functional area is used. • Margin Load Parallel Degree: Specifies the parallel degree when the Incremental Margin Load is run. • Margin Load Start Date: Date used for the Margin Load for Cost Plans background process. Date is the past date for the sales order data loaded in the very first load. • Simulation Margin Duration (months): The number of months the simulated margin is generated.
Cost Planning—configures planning engine and price list settings.	• Planning Engine Parallel Degree: If the planning engine is run in parallel mode, this parameter specifies the parallel degree. • Default Selling Price List: Specifies the default price list for selling price used in the Item Cost Details Smart View page.

Diagnosis—Used for researching and resolving performance issues in the simulation process.	• Debug Enabled
	  • If not enabled, debug information is not generated. This lets you to reuse the simulation code.
	  • If enabled, debug information is generated. This lets you troubleshoot the reason for the simulation failure.
	• Debug Level, choices are: Statement, Procedure, Event, Exception, Error, Unexpected.

Parameter Name	Parameter Values
Background Process Scheduler—Concurrent manager that polls the submitted background processes and runs the eligible processes.	• Status check box: Indicates if the background scheduler process polling frequency is on. • Interval (seconds): The polling frequency of the manager is determined by this field. The value determines after how many seconds from the end of the prior run the manager wakes up to poll for new background processes submitted.

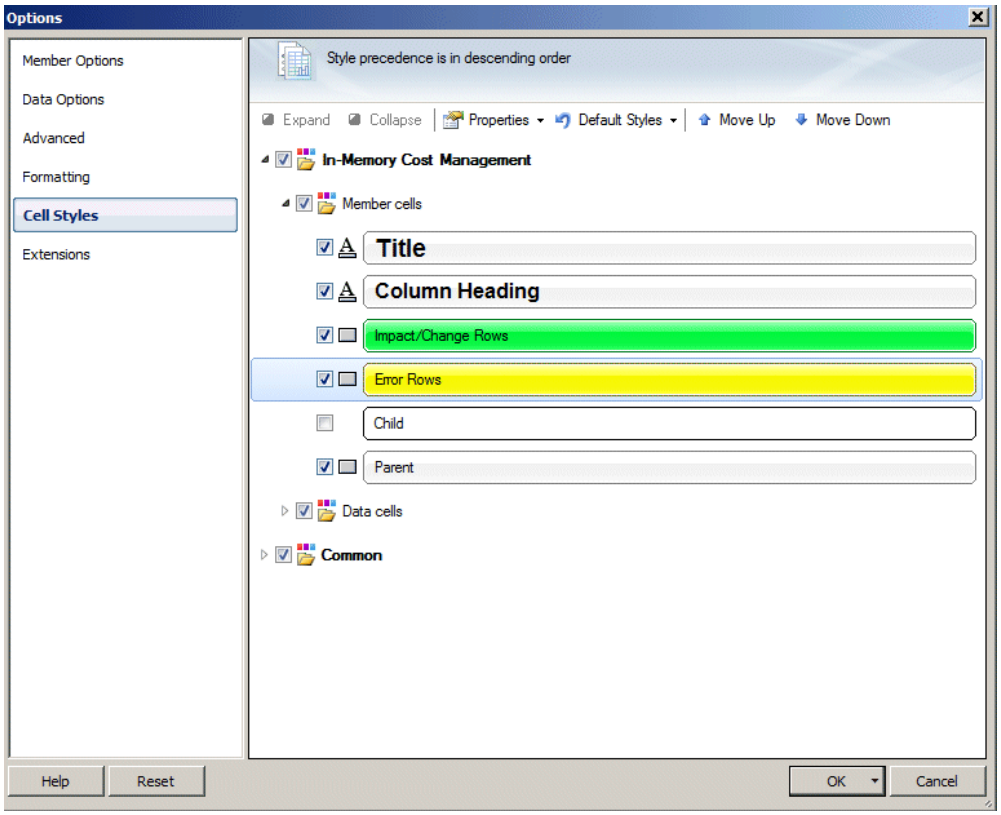
Smart View Cell Formatting

Oracle Smart View for Office provides a common Microsoft Office interface for In-Memory Cost Management Cloud Service data sources. The Smart View interface enables you to view, import, manipulate, distribute, and share data sources in Microsoft Excel. The Smart View ribbon contains commands for operations and reporting.

For improved readability, you can set spreadsheet cell style color and text options appearing in all the workbooks and worksheets you create. On the Cell Styles page, specify the formatting to indicate certain types of member and data cells. Because cells may belong to more than one type - a member cell can be both parent and child, for example, you can also set the order of precedence for how cell styles are applied.

To specify a cell background colors and font styles:

1. Navigate to either the Cost Impact Simulation or Cost Comparison worksheets.
2. Select the Smart View ribbon.
3. Select the Options icon.
4. When the Options window appears, select the Cell Styles option.



5. Select Member cells and expand the drop-down menu. The following cell types appear:
   - Title
   - Column Heading
   - Impact /Change Rows
   - Error Rows
   - Child
   - Parent

6. Select the check box next to the cell type, and double-click the cell type to change the option.
   - For Title and Column Heading cells, the Font dialog box appears. You can change the font type, size, style, and color.
   - For Impact/Change Rows, Error Rows, Child, and Parent cells - the Color dialog

box appears to change the cell background color.

7. After entering individual cell changes, choose OK to save your work and return to the Options window.

8. Save formatting options by choosing:

   - OK to save formatting options for your current session only.

   - The drop-down arrow on the OK button and select Save as Default Settings to set your selections as default settings.

Related Topics

Formatting Options, *Oracle Smart View for Office User's Guide*

Using the Member Selector

The Oracle Smart View interface provides the ability to search for values based on context in the Cost Impact Simulation and Cost Comparison worksheets. The Member Selection dialog box enables you to search for and select values to display on these worksheets. Available values, or members, appear in a tree.

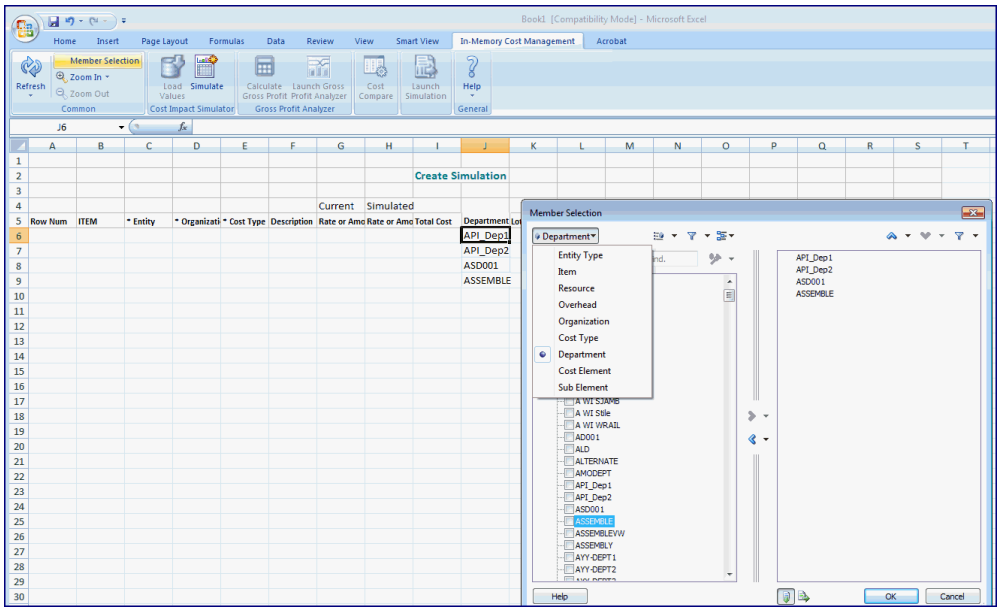
To select multiple values on the spreadsheet:

1. Navigate to an In-Memory Cost Management Smart View worksheet such as Cost Simulation or Cost Comparison.

2. Place your cursor in the column for the associated value you want to search.

3. Select Member Selection in the In-Memory Cost Management ribbon on the worksheet.

   The Member Selection dialog box appears.



4. In the drop-down menu, select the column type value you are searching.

   The available values appear in a tree list.

5. Click the Dimension Selector button to change the dimension. For example, if you are searching Entity Type, you can click the Dimension Selector to view other values such as Organization, Cost Type, and so forth.

6. Enable the check boxes next to the values you want to enter on the worksheet.

7. Select the Right-Arrow tool to move values to the Selection pane.

8. Select OK to move those selections to the worksheet.

Connecting to Data Sources

The Cost Impact Simulation and Cost Comparison pages use Oracle Smart View for Office with Microsoft Excel for investigating costing data in your organization. You can connect directly to active connections using a configured URL. You may need to access other connections through the Connections and Panel icons in the Smart View ribbon.

To navigate to data source connections:

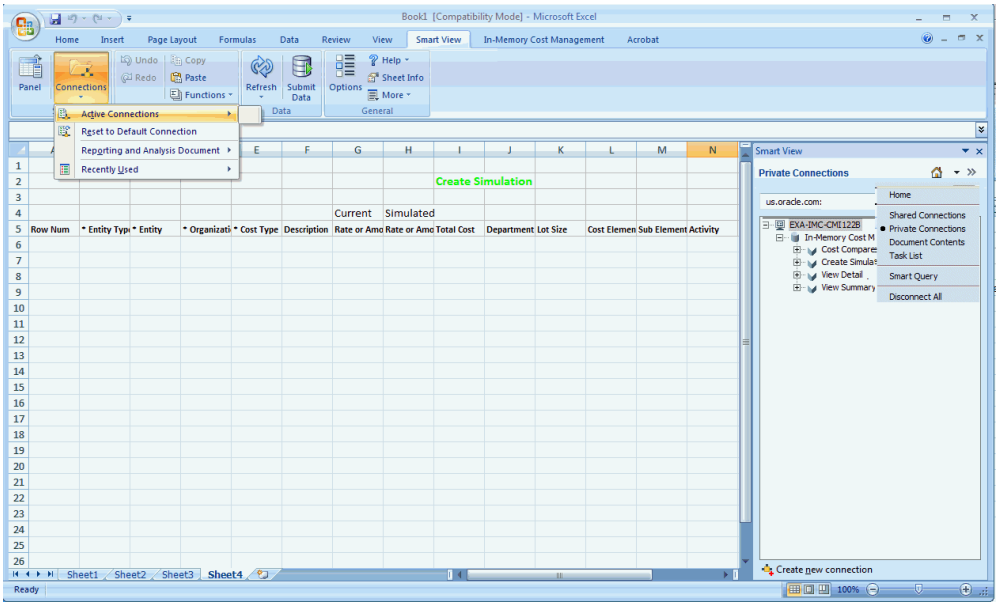
1. Navigate to the Cost Impact Simulation or Cost Comparison page.

2. Select the Smart View tab.

3. Select the Connections or Panel icon.

4. Select one of the following choices:

   - Active Connections
   - Reset to Default Connection
   - Reporting and Analysis Document
   - Recently Used



The Smart View panel appears on the side of the Excel spreadsheet. You can move, resize, or close the panel.

Background Processes

Background processes simultaneously execute programs running in the background for the eligible processes. The Background Process Scheduler parameter is used to set the polling frequency of the request manager interval. See: Configuration, page 2-6

To view background process statuses and perform tasks:

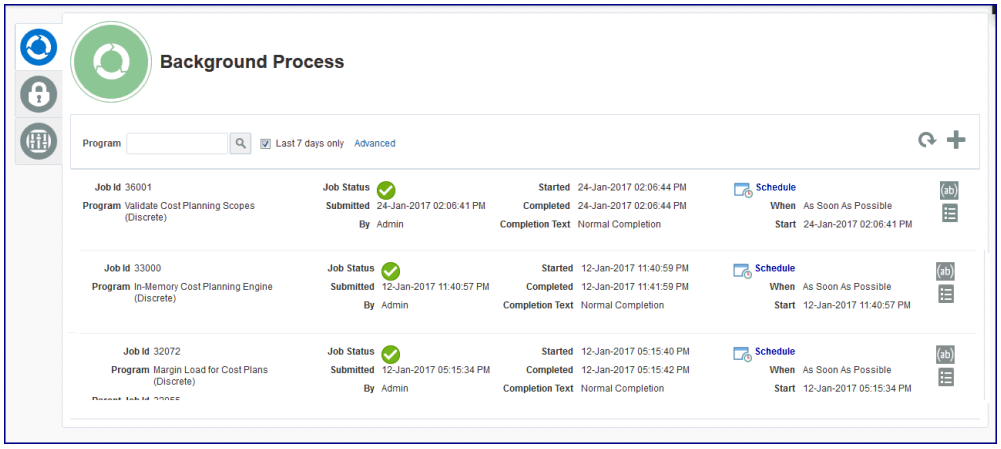
1. Navigate to the Background Process region.

   A listing of processing programs submitted appears on the page.

   You have the option to search the list of processes using a quick or advanced query:

   - Quick Query enables searching when you know information such as part of a name or description.

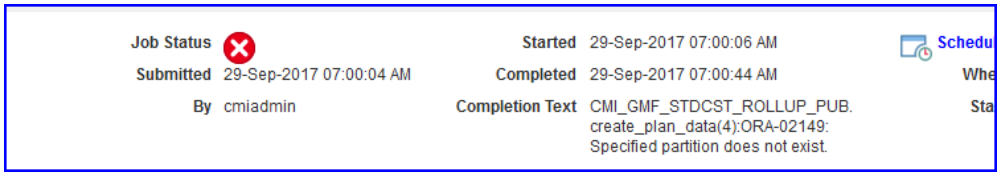
- Advanced search offers multiple search criteria and conditional qualifiers. This method is used when looking for specific values.



The information for each background process appears in the following fields:

- Job ID number
- Program name
- Job Status
- Submitted and Submitted By
- Started and Completed dates
- Completion Text
- Schedule

2. Use the Completion Text field to view messages regarding the job status completion. The messages can include error messages if the background process fails.

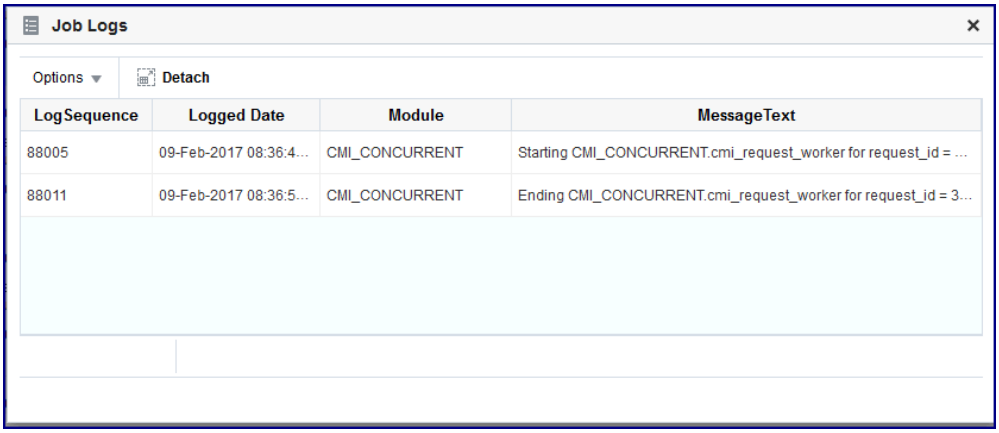


3. Use the Schedule section to view When the process is scheduled and the Start date.

4. Click the View Parameters icon to see the Plan Code associated with this process.

5. Click the View Logs icon to see the log data in the Job Logs dialog box including Sequence, Date, Module, and Message Text. You can export or print the log output by choosing the following in the Option drop down box:

   - Export to Excel
   - Printable Page



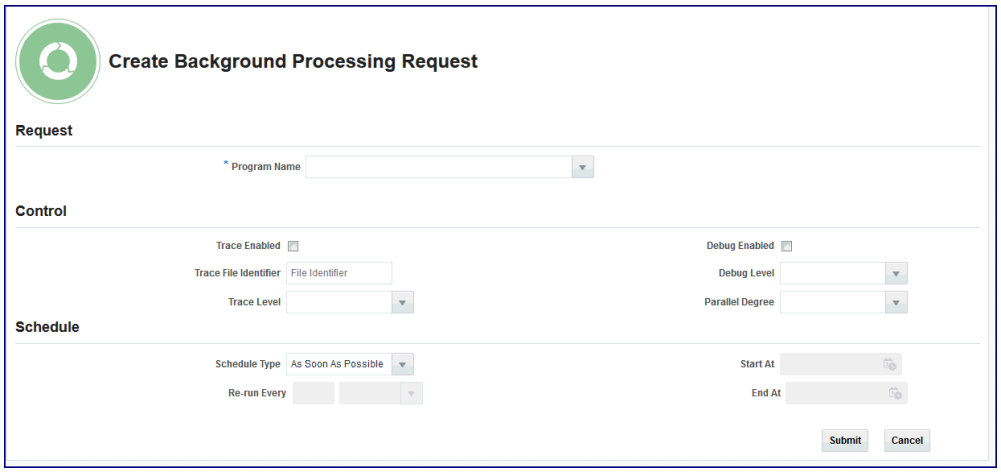
6. Select the New Job icon to navigate to the Create Background Processing Request page.

   The page is divided into three sections: Request, Control, and Schedule.

7. In the Request section, enter the background process name in the Program Name field.

8. In the Control section, select information for diagnosing processing issues for the request including:

   - Trace Enabled
   - Trace File Identifier
   - Trace Level
   - Debug Enabled
   - Debug Level
   - Parallel Degree



9. In the Schedule section, select information regarding scheduling this process including:
   - Schedule Type
   - Re-run
   - Start and End At times

10. Choose Submit to schedule this request.

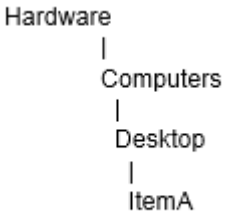
    The following is a list of background processes in In-Memory Cost Management Cloud Service.

In-Memory Cost Management Cloud Service Background Processes

Process	Description
Calculate Actual COGM (Discrete) Calculate Actual COGM (Process)	This process is related to the cost planning feature. Calculates the actual cost of goods manufactured for a given cost plan. The actual COGM can be used to compare with the plan COGM. Ensure accurate data, run this program after the plan months have passed, when the actual cost data is available.

Process	Description
Calculate Gross Profit for Cost Impact Simulator (Discrete) Calculate Gross Profit for Cost Impact Simulator (Process)	Considers all the orders used in the simulation calculation and is a required background process for viewing the Gross Profit Analyzer dashboard.
Create Cost Hierarchy (Process)	Extracts detailed product cost structures for selected products from a simulation. This data can be leveraged by customers to prepare their own reports to analyze and compare costs.

Process	Description

Create Product Category Hierarchy	Creates the setup data used for the Gross Profit Analysis dashboard. This process creates the product category hierarchy for the product dimension in the profitability analysis. There are two methods for creating the hierarchy:
	• Using the product catalog setup: If the product catalog category set is defined in the configuration, then the process uses product catalog category hierarchy to create the product dimension.
	• Using the segments of category:
	  • If the product catalog category set is not defined in the configuration—the process uses the segments of the category for the products attached to the costing functional area, and creates the hierarchy.
	  For example if the category attached to a product is ItemA and costing functional area is Hardware.Computers.Desktop—it will create the product dimension with the following hierarchy:
	 
	
	Run this process after product installation. After new categories are created, categories are changed, or the category assignment of items is changed.

Process	Description
Create Territory Hierarchy	Creates the setup data to be used for the Gross Profit Analysis dashboard. This process creates the hierarchy of territories which is used to show the corresponding region hierarchy for customer dimension in the profitability analysis. Run this process after product installation and after territories are created or changed in the source system.
Create Time Dimension	Creates the setup data for the Gross Profit Analysis dashboard. It uses general ledger periods and creates the time dimension required for reporting in Profit Analysis. Run this process after product installation, each time new periods are opened, and when the calendar is changed.
Generate Key-Flexfield Views	Creates descriptive flexfields as defined in the on premise version of In-Memory Cost Management which provide customizable segments to track additional and unique information to your business.
IMCM Full Process Cost Rollup	For a future release.
Import Price Lists	Imports price lists from a particular source into In-Memory Cost Management Cloud Service.
Import Supply/ Demand for Cost Planning (Discrete) Import Supply/ Demand for Cost Planning (Process)	This process is related to the cost planning feature. It imports the supply and demand that a cost plan uses to calculate driver values and unit costs. Load the Supply Demand plans into the interface table using the REST webservice before running the program.
In-Memory Cost Planning Engine (Discrete) In-Memory Cost Planning Engine (Process)	Executes cost plans and performs the driver value calculation, allocated amount calculation, and unit cost calculation for each plan month.

Process	Description
Incremental Margin Load background processes: • Incremental Margin Load (Discrete) • Incremental Margin Load (Process) • Incremental Margin Load for Planned Orders (Discrete) • Incremental Margin Load for Planned Orders (Process)	These processes collect the data for actual costs; and incrementally load data from Accounts Receivables, Accounts Payables, Inventory, Order Management, Sales forecasting, and Cost Management. This process gathers the actual COGS and invoiced information for shipped and invoiced sales orders. It also gathers data for sales orders that are open and booked—but not yet shipped or invoiced and sales forecasts. See: Incremental Margin Load Programs, page 2-22
Margin Load for Cost Plans (Discrete) Margin Load for Cost Plans (Process)	This process is related to the cost planning feature. Use this process to perform the margin load and calculate the profitability impact using the plan costs.
Purge Cost Plan (Discrete) Purge Cost Plan (Process)	This process is related to the cost planning feature. Deletes cost plan records from your system.
Purge Simulation (Discrete) Purge Simulation (Process)	Enables you to remove and delete cost simulation records from your system.
Purge Margin Data	Purges collected COGS and revenue data in the fact tables and dimensions. • Fact tables contain various measures, attributes of measures, and foreign keys that connect the fact table and the dimension tables. • Dimensions contain attributes for items such as time, organization, and customer. This data is collected by the Gross Profit Analyzer to calculate the margins that are displayed in the multiple dashboards.
Purge Simulation Margin Load	Deletes simulation margin load records from your system.

Process	Description
Simulation Margin Load (Discrete) Simulation Margin Load (Process)	Launches simulations to show the impact of product cost variations. Uses the actual cost information to create the simulated comparison data. The calculation is used in the Gross Profit Analysis and Impact on Gross Profit dashboards. See: Simulation Margin Load Programs, page 2-23
Validate Cost Planning Scopes (Discrete) Validate Cost Planning Scopes (Process)	This process is related to the cost planning feature. Validates the allocation scopes and identifies any invalid scope settings.

Incremental Margin Load Programs

These background processes collect the data for actual costs; and incrementally load data from Accounts Receivables, Accounts Payables, Inventory, Order Management, and Cost Management—to gather the actual COGS and invoiced information for shipped and invoiced sales orders. They also gather data for sales orders that are open and booked—but not yet shipped or invoiced, data for newly created items and customers.

The processes must be run to use the following functions:

- Simulation Margin Load
- Calculate Gross Profits in the Cost Impact Simulation page

At completion, the processes launch the Incremental Margin Load for Planned Orders program to import the data for planned orders.

Chronological considerations for profit analysis display are:

- Set the Profitability parameters on the Configuration page to configure default values used for the margin load programs:
    - Margin Load Parallel Degree specifies the parallel degree when the Incremental Margin Load is run.
    - Margin Load Start Date: Date used for the Margin Load for Cost Plans background process when loading the data for the first time.
- Invoice Quantity and Invoice Amount values are populated after the Invoice Import and Revenue Recognition programs in Accounts Receivables are run.

- Launch these programs prior to launching the Incremental Margin Load program. Otherwise, COGS and Shipped Quantity values display as Null on the Profit Analysis dashboards.

- After running the Interface Trip Stop-SRS process in Shipping Execution, ensure that the Workflow Background Process is successfully completed prior to launching the Incremental Margin Load concurrent program.

- Schedule the processes to run on a periodic basis to have the information needed for accurate simulations.

Simulation Margin Load Programs

The Simulation Margin Load process uses the actual cost information to create the simulated comparison data. The calculation is used in the Gross Profit Analysis and Impact on Gross Profit dashboards. After entering the Cost Type:

- The program calculates the simulated COGS and simulated margins based on the costs defined in that cost type.

- If the costs do not exist in the cost type specified, then the program attempts to get the cost from the default cost type specified.

- If the default value does not exist, then the simulated COGS is defaulted as actual COGS.

- Use the Configuration page to set the Profitability parameter to configure the default value used for simulations: Simulation Margin Duration (months): The number of months to be used in the Simulated Margin Load process.

Related Topics

Configuration, page 2-6

3

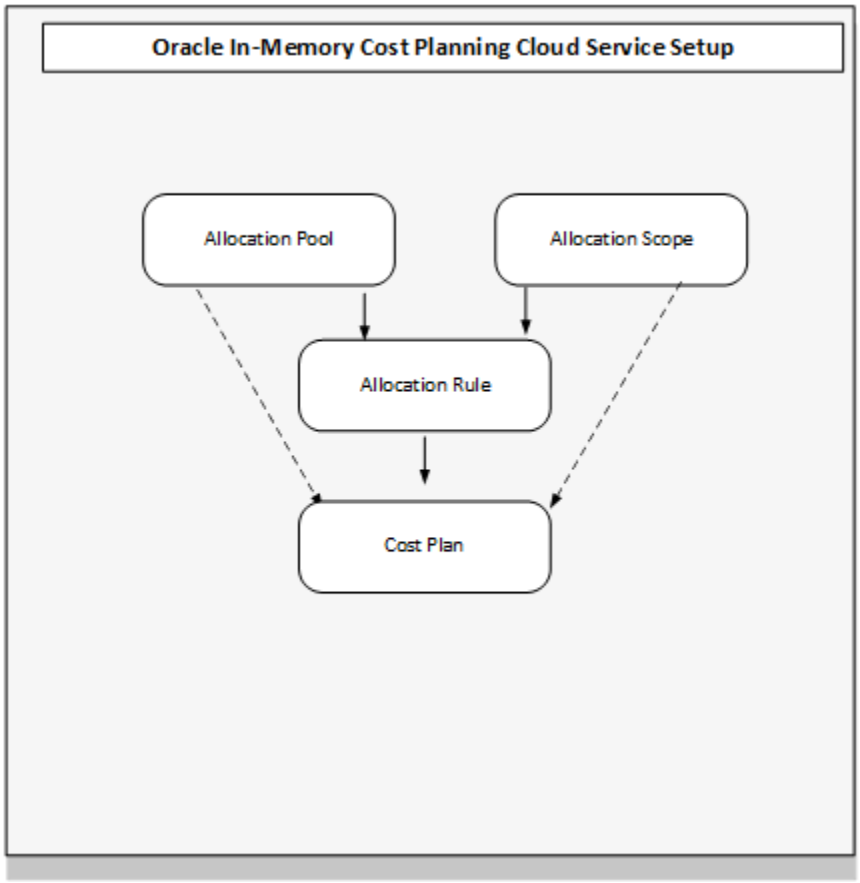
Cost Planning

Overview of Cost Planning

Oracle In-Memory Cost Planning enables you to quickly and easily organize your source of costs by targeting items, such as raw materials, resources, and overhead. Cost Planning also includes several allocation methods to define cost allocation strategy. You can upload and use demand forecasts and production plans to calculate future costs, margins, and profits You can define an enterprise-wide cost strategy and perform cost planning scenarios using Oracle Database 12c Database In-Memory Option for extreme performance in all types of database workloads. Cost Planning enables you to keep the manufacturing process profitable by:

- Analyzing the costs associated to product lines in detailed planned cost structures.
- Identifying high costs and low value flows.
- Determining the break even point for a product.
- Providing the ability to perform what-if simulations.
- Achieving a break even point: the point where your product stops costing money and generates a profit.

Cost Planning models direct costs, overhead, and fixed costs by using allocation pools, allocation scopes, and allocation rules.



Cost Centers

A cost center represents the smallest segment of an organization where you collect and report costs. It represents the destination or function of an expense, rather than the nature of the expense which is represented by the account.

A cost center is generally attached to a single legal entity. To identify the cost centers within a chart of accounts structure use one of these two methods:

- Assign a cost center value in the value set for each cost center. For example, assign cost center values of PL04 and G3J1 to your manufacturing teams in the US and India. These unique cost center values allow easy aggregation of cost centers in hierarchies (trees) even if the cost centers are in different ledgers. This approach requires defining more cost center values.

- Assign a balancing segment value with a standardized cost center value to create a combination of segment values to represent the cost center. For example, assign the balancing segment values of 001 and 013 with cost center PL04 to represent your manufacturing teams in the US and India. This creates 001-PL04 and 013-PL04 as the cost center reporting values. This method requires fewer cost center values to be defined. However, it prevents construction of cost center hierarchies using trees

where only cost center values are used to report results for a single legal entity. You must specify a balancing segment value in combination with the cost center values to report on a single legal entity.

Cost Centers enable specific sites to track costs by designating certain parts of their organization as cost centers. For example, a company could set up several cost centers for each department that will be ordering supplies. The department is specified on each order, and the company can then track costs by department.

Allocations

Cost allocators enable manufacturers to set up and derive accurate product costs based on historical trends and external parameters.

- Allocation Pool represents total costs absorbed or allocated by a scope of products, resources or overheads in a cost plan.
- Allocation Scope includes the products, resources or overheads considered for a cost plan. It is used to group these elements that will absorb costs defined in an allocation pool.
- Allocation Rule is the method cost accountants use to allocate costs using the scope and pools defined. This provides multiple allocation methodologies. The cost driver is the cost basis used to allocate costs to products.

Cost Plans

Cost plans perform the cost allocations defined by the allocation rules included in the cost plan. After generating the cost plan, you can use the new cost types created and run simulations based on these new cost types in the Cost Impact Simulator. The simulation enables you to use an estimated cost and check how the new estimate will impact the current production and profitability. You can:

- Run different cost plans enabling you to create cost estimates using different cost drivers and then choose the best fit for the business.
- Choose multiple allocation rules for a given plan period, enabling the plan to be used across organizations.
- Specify a percentage of dollars absorbed by the plan.
- Calculate the impact of inflation using a markup percentage.
- Review the status and output of the cost plan in the View Cost Plan page.
- Query a current cost plan and change the options.

Related Topics

Searching and Viewing Allocation Pools, page 3-4

Creating and Updating Allocation Pools, page 3-9

Searching and Viewing Allocation Scopes, page 3-12

Creating and Updating Allocation Scopes, page 3-17

Searching and Viewing Allocation Rules, page 3-21

Creating and Updating Allocation Rules, page 3-29

Searching and Viewing Cost Plans, page 3-35

Creating and Updating Cost Plans, page 3-39

Analyzing Specific Cost Plans, page 3-45

Searching and Viewing Allocation Pools

Material costs are typically estimated using historical transactions such as purchase orders and receipts. Overheads are captured and maintained as part of expense management and budgetary control systems and are incurred at various levels of the organization. To accurately allocate these costs, they are grouped into pools. In the cost plan, allocation pools group costs by similar categories such as products, resources, or overheads.

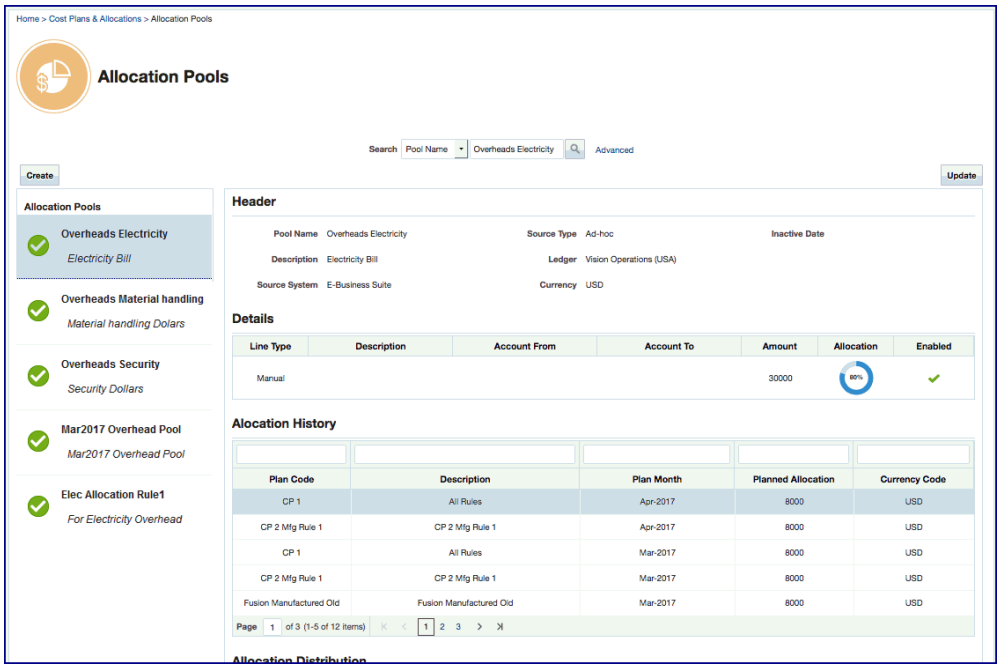
You have the option to search for allocation pools using a quick or advanced query:

- Quick Query enables searching when you know information such as part of a name or description.
- Advanced search offers multiple search criteria and conditional qualifiers. This method is used when looking for specific values.

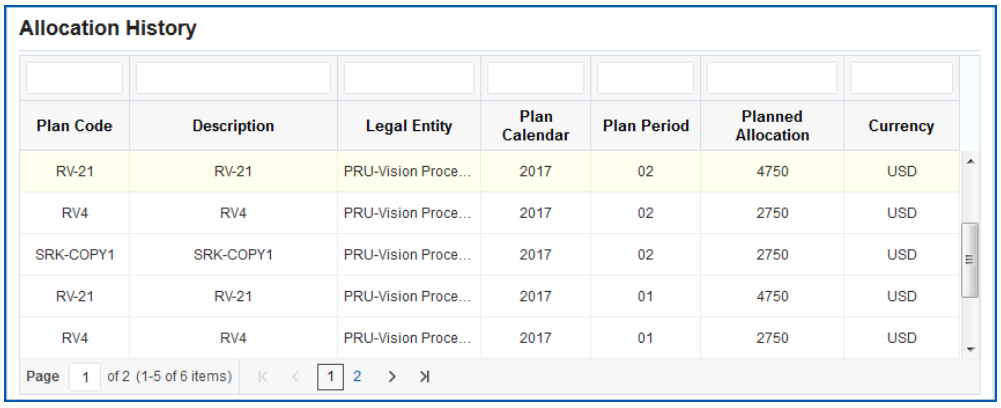
To search for allocation pool records:

1. Navigate to the Allocation Pools page by choosing either the Discrete or Process application. A listing of records appears in the Allocation Pools column.
2. Select a specific record; the details appear in the Header, Details, Allocation History, and Allocation Distribution sections of the page.
3. For a Quick Query in the Search region—select either the Pool Name or Description, and enter a value.
4. Select the Search icon to view the results of your query.

Discrete Industries



Process Industries



5. You can filter the record display by entering search criteria in any of the unmarked or blank boxes preceding the columns in the header of the table. Press return to see the results of your query.

6. Optionally, you can select Advanced to use additional criteria for the query on the Advanced search section of the page.

7. In this search method, specify how to filter the results of your search criteria by choosing either to match All or Any of the fields listed.

8. Enter values in the applicable fields for your search. The default values appearing on the page:
    - Pool Name
    - Description
    - Currency
    - Inactive Date
9. For each search criteria value, select a conditional qualifier.

    Choices are: Starts with, Ends with, Equals, Does not equal, Less than, Less than or equal to, Greater than, Greater than or equal to , Between, Not between, Contains, Does not contain, Is blank, Is not blank.
10. You can add search criteria and reorder the display of the search fields.

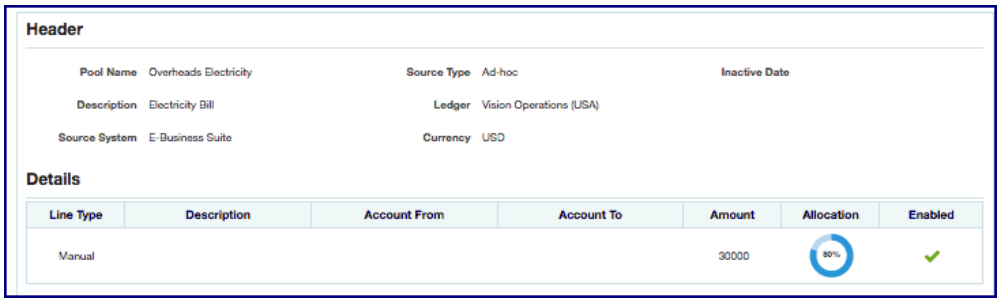
    The following fields are available for the Advanced search criteria:
    - Created by
    - Creation Date
    - Ledger
    - Source Type
    - Source System
    - Updated By
    - Updated Date
11. Select Search to display the results of your search. The details appear in the Header, Details, Allocation History, and Allocation Distribution sections of the page.

To view allocation pool details:

1. Navigate to the Allocation Pools page for a specific record by choosing either the Discrete or Process application.

    The Header region shows specific information for this pool appearing in the following fields:
    - Pool Name: A unique identifier for the pool value
    - Description

- Source System: Source for the general ledger accounts
- Source Type: Category of the amount value such as Actual, Budget, or Ad hoc
- Ledger: Corporate organization general ledger account
- Currency: The primary currency of the general ledger associated with the allocation pool
- Inactive Date: Date this record will no longer be active, if applicable.



Account information appears in the Details region of this page including:

- Line Type and Description: General ledger source type for this line
- Account From and To: General ledger account number range
- Amount: Value of this line for this currency
- Allocation: Percentage allocated

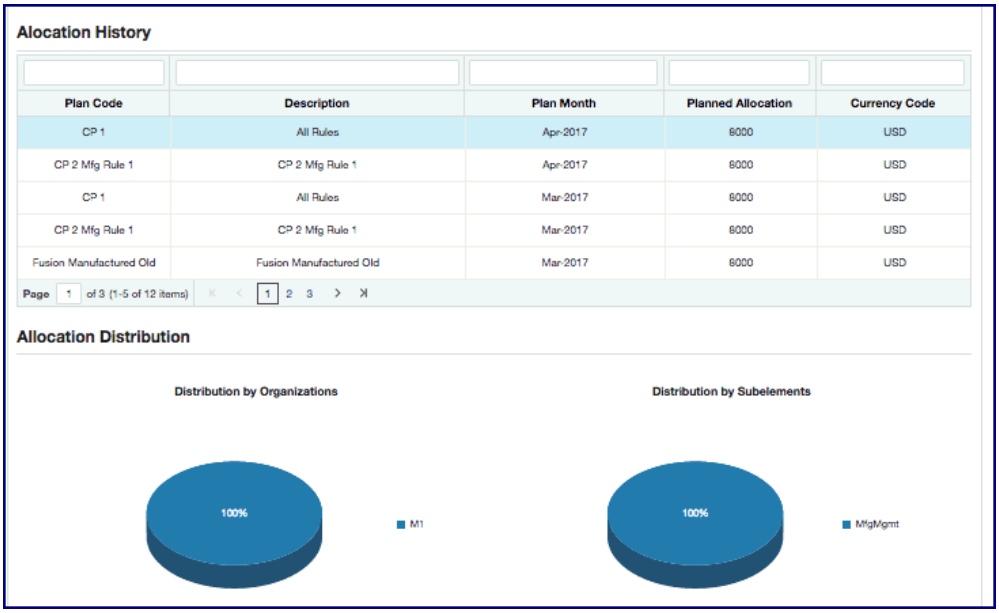
  Enabled: Indicates if this line is active

The Allocation History region displays a list of the allocation transactions for this pool and details in the following fields:

Discrete Industries	Process Industries
Plan Code and Description	Plan Code and Description
Plan Month	Legal Entity
Planned Allocation	Plan Calendar
Currency Code	Plan Period

Discrete Industries	Process Industries
-	Planned Allocation
-	Currency

Discrete Industries



Process Industries

The Allocation Distribution region shows graphic representations of the distribution percent of the cost of the items in the pool by:

- Discrete: Organization and Subelements
- Process: Organization, Cost Component Classes, and Analysis Codes

2. You can navigate to the following pages by selecting:
   - Create to access the Create Allocation Pool page.
   - Update to access the Update Allocation Pool page.

See: Creating and Updating Allocation Pools, page 3-9

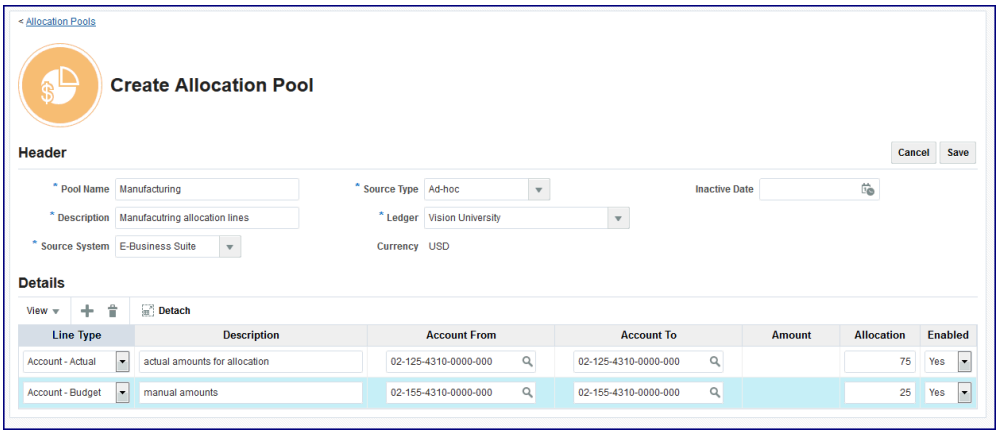
Creating and Updating Allocation Pools

Allocation pools enable the grouping of costs to get an insight into how much is being spent. Combined with the margin analysis tools, allocation pools aid in cost savings and optimization. When creating allocation pools, you can use actual, budget, or ad hoc accounts.

To create an allocation pool:

1. Navigate to the Create Allocation Pool page by choosing either the Discrete or Process application.

2. Enter a unique value in the Pool Name and descriptive text for this record in the Description field.



3. In the Source System field select a source for the general ledger accounts. Choices are:

   - E-Business Suite
   - ERP Cloud
   - JDE
   - PeopleSoft
   - Others

4. In the Source type field select the general ledger source. The source type selected determines available Line Type values for the pool lines in the Details table region. Choices are:

   - Actual: If selected , only Actual journal lines for the accounts selected are used when the cost plan uses this allocation pool. You can only select Line Type as Account-Actual in the pool lines.
   - Budget: If selected , only Budget journal lines for the accounts selected are used when the cost plan uses this allocation pool. You can only select Line Type as Account-Budget in the pool lines.
   - Ad hoc: If selected, you can select Account - Actual, Account - Budget, and Manual amount types in the Line Type field. The cost plan considers the Actual or Budget journals accordingly for the Pool Lines when the allocation pool is used in the cost plan.

5. Select the corporate organization general ledger account in the Ledger field.

The Currency field displays the currency associated with this corporate organization general ledger account.

6. You can select a date that this pool record will no longer be active in the Inactive Date field, if applicable.

7. In the Details table region, select information to create pool lines in the following fields:

    - Line Type:
        - Actual, if selected then the Amount equals the Account subtracted from Actual.
        - Budget, if selected then Amount equals the Account subtracted from Budget.
        - Ad Hoc, all account types are available.
    - Description: Enter descriptive text for this amount type.
    - Account From and To: Select the range of GL accounts you are using for this pool. These fields are enabled when Amount Type is Account - Actual, or Account - Budget.
    - Amount: Define the currency amounts that are not maintained in GL Accounts. This field is enabled when the Line Type field value is Manual.
    - Allocation: The percentage for each pool line defined should be less than or equal to 100 percent.
    - Enabled: The default value for a pool line is enabled, but you can choose to enable or disabled a specific pool line.

8. Save your work.

To update and edit an allocation pool record:

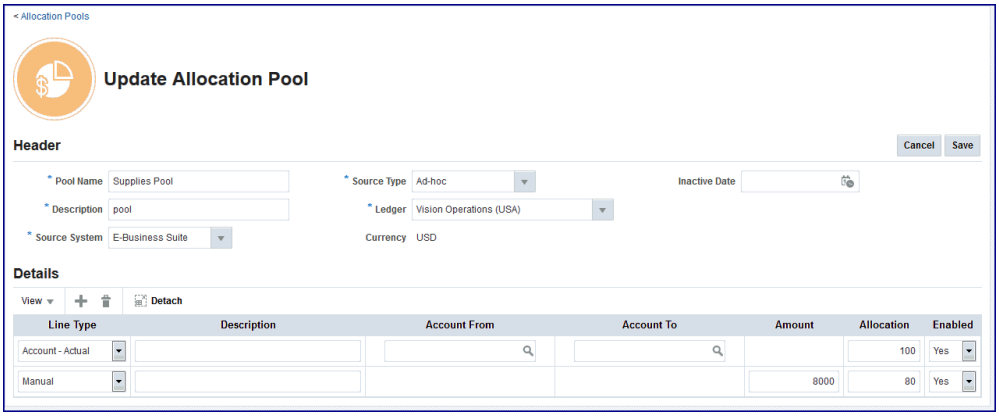
1. Navigate to the Update Allocation Pool page for a particular record.

2. In the Header region, you have the option to update the following fields:

    - Pool Name
    - Description
    - Source System

- Source Type
- Ledger
- Inactive Date

Note: The Currency field displays the primary currency for the general ledger associated with the allocation pool.



3. In the Details region, enter changes or additions for the pool lines including:
   - Line Type associated with the Source Type value of the record
   - Description
   - Account From and To ranges
   - Currency
   - Allocation percentage
   - Enabled
4. Save your work.

Searching and Viewing Allocation Scopes

Allocation scopes let you identify the target items, resources and overheads used in calculating costs. The scope groups these items, resources and overheads and enables you to create various business scenarios for products. An unlimited number of scopes can be defined for different purposes.

You have the option to search for allocation scopes using a quick or advanced query:

- Quick Query enables searching when you know information such as part of a name or description.

- Advanced search offers multiple search criteria and conditional qualifiers. This method is used when looking for specific values.

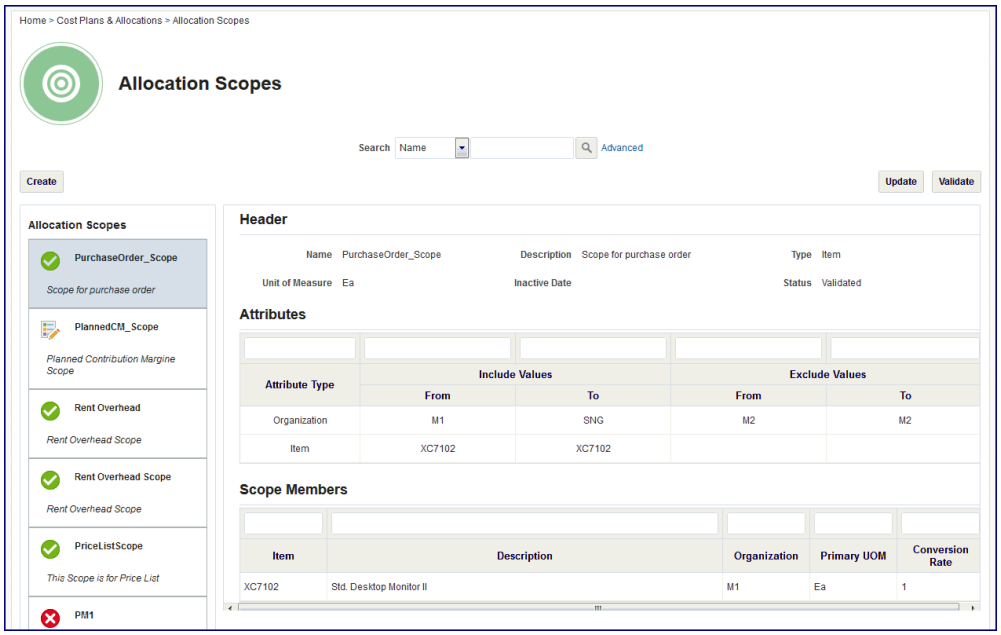
To search and view allocation scopes:

1. Navigate to the Allocation Scopes page by choosing either the Discrete or Process application.

   A listing of records appears in the Allocation Scopes column. The details for a selected record appear in the Header, Attributes, and Scope Members sections of the page.

2. For a Quick Query in the Search region—select either Name or Description, and enter a value.

3. Select the Search icon to view the results of your query.



4. You can filter the record display by entering search criteria in any of the unmarked or blank boxes preceding the columns in the header of the table. Press return to see the results of your query.

5. Optionally, you can select Advanced to use additional criteria for the query on the Advanced search section of the page.

6. In this search method, specify how to filter the results of your search criteria by

choosing either to match All or Any of the fields listed.

7. Enter values in the applicable fields for your search. The default values appearing on the page are the following:
   - Name
   - Description
   - Status

8. For each search criteria value, select a conditional qualifier.

   Choices are: Starts with, Ends with, Equals, Does not equal, Less than, Less than or equal to, Greater than, Greater than or equal to, Between, Not between, Contains, Does not contain, Is blank, Is not blank.

9. Enter a value for any of the following fields:
   - Created By
   - Error Message
   - Inactive Date
   - Type
   - Legal Entity (for Process application)
   - Unit of Measure
   - Updated By

10. Select Search to display the results of your search. The details appear in the Header, Attributes, and Scope Members sections of the page.

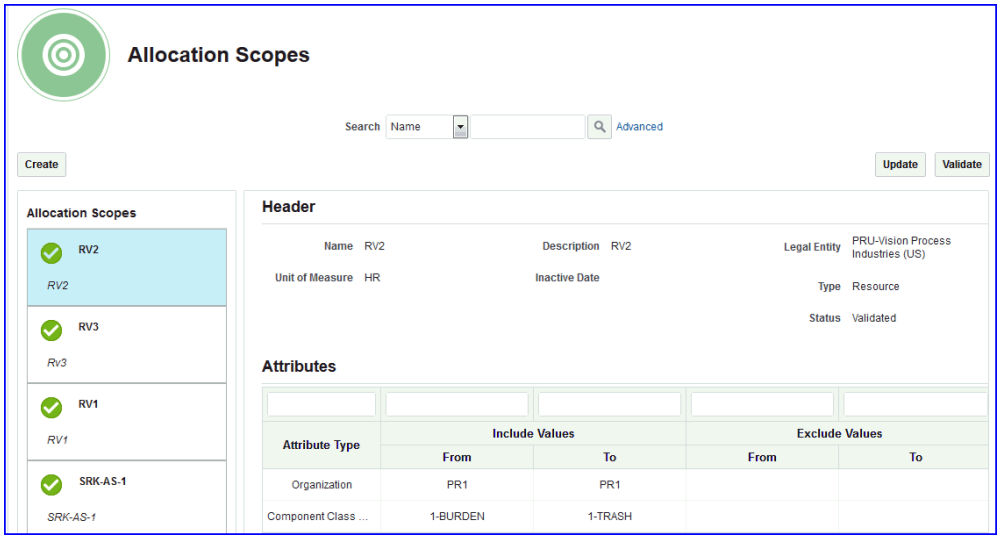
To view details of an allocation scope record:

1. Navigate to the Allocation Scopes page by choosing either the Discrete or Process application and selecting a specific record.

   In the Header region, specific information for this scope appears in the following fields:
   - Name: A unique value for this scope record
   - Description
   - Type: Choices are: Item, Resource, or Overhead

- Legal Entity (for Process application): Corporation, partnership for a legal construct
- Unit of Measure
- Inactive Date: The date that this scope record will no longer be active, if applicable.
- Status: The values available are Error, Validation in Progress, and Validated.

  The value is Draft when creating or updating the plan.

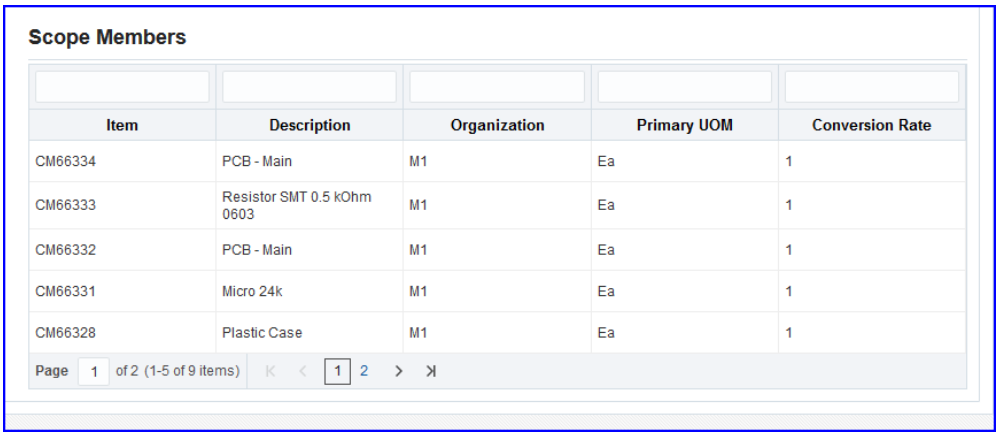


In the Attributes region, information on Attribute Type in the range of From and To Values appears. This table shows both the included and excluded attribute values.

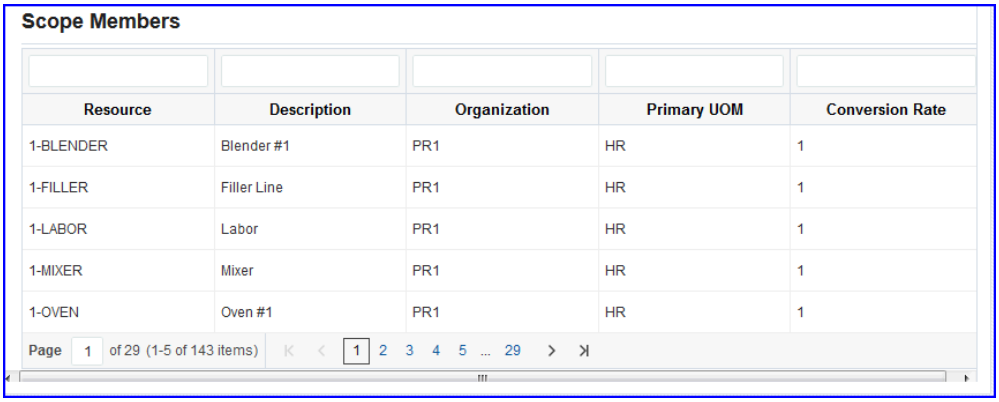
In the Scope Members region, individual components of the scope members display for the selected attribute in the Attributes region:

- Discrete Industries: Item, Description, Organization, Primary Unit of Measure, Conversion Rate.
- Process Industries: Resource, Description, Organization, Primary Unit of Measure, Conversion Rate.

Discrete Industries



Process Industries



2. You have the option to select:

- Validate to run the Validate Cost Planning Scopes background process.

  This program checks if the products, resources, and overheads included in the scope have the unit of measure conversion defined. When the scope is validated, you can review the actual products, resources, and overheads finalized as this scope.

  The value is Draft when creating or updating the plan. Other values are Error, Validation in Progress, or Validated

  You can export these details to a spreadsheet, see: Background Processes, page 2-14

- Create to navigate to the Create Allocation Scope page.

- Update to navigate to the Update Allocation Scope page.

See: Creating and Updating Allocation Scopes, page 3-17

Creating and Updating Allocation Scopes

Cost accountants can run different scopes to analyze identified costs and trends for production. These costs are recorded in the general ledger.

To create an allocation scope:

1. Navigate to the Create Allocation Scope page by choosing either the Discrete or Process application.

2. In the Header region, enter the following values:

   - Name: A unique value for this scope record.

   - Description

   - Legal Entity (for Process application): Corporation, partnership for a legal construct.

   - Inactive Date: A date that this scope record will no longer be active, if applicable.

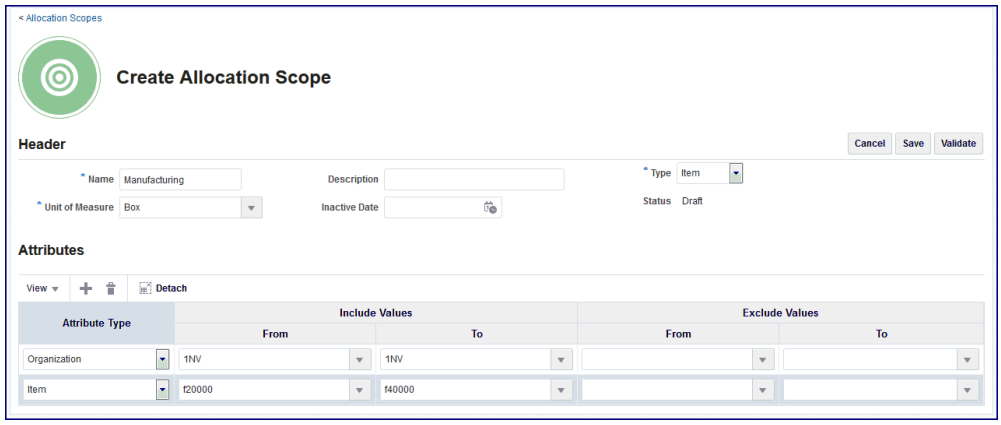
   - Unit of Measure

   - Type: Choices are: Item, Resource, or Overhead

   In the Status field, the value is Draft, when creating or updating the plan:

   - When you select Validate, the system generates the Validate Cost Planning Scopes background process and the status becomes Validation in Progress.

   - Once validation is completed based on the result, the status is either Validated or Error (if there are issues).



3. In the Attributes table region, select the following values:
   - Attribute Type
   - Include Values, From and To Value range
   - Exclude Values, From and To Value range

   Depending on the Scope Type value selected in the Header section, the following table shows the choices available for each attribute type:

Discrete Industries

Item	Overhead	Resource
Cost Group	Cost Type	Cost Type
Cost Subelement	Department	Department
Cost Type	Organization	Organization
Item	Overhead	Resource
Item Category	WIP Accounting Class	Resource Group
Organization	-	WIP Accounting Class
Project	-	-
Subinventory	-	-

Item	Overhead	Resource
Task	-	-

Process Industries

Item	Resource
Analysis Code	Analysis Code
Component Class Code	Component Class Code
Cost Type	Cost Type
Item	Organization
Item Category	Resource
Organization	Resource Class
Subinventory	-

4. Save your work.

5. Select Validate to run the Validate Cost Planning Scopes background process.

   This program checks if the products, resources, and overheads included in the scope have the unit of measure conversion defined. When the scope is validated, you can review the actual products, resources, and overheads finalized as this scope.

   If the scope validation fails or does not process, you can see the status and errors in the Completion Text field on the Background Process page: see: Background Process Errors, page 2-15

   You can export these details to a spreadsheet, see: Background Processes, page 2-14

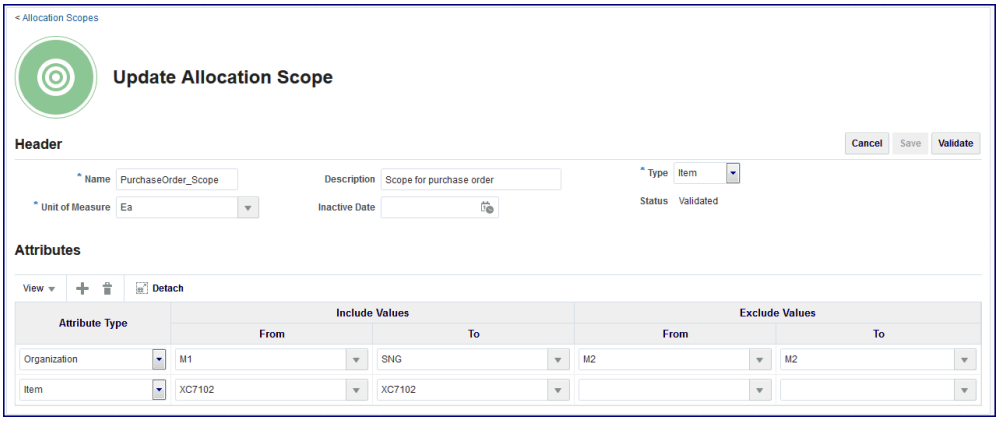
To update and edit an allocation scope record:

1. Navigate to the Update Allocation Scope page for a particular record by choosing either the Discrete or Process application.

2. In the Header region, you have the option to update the following fields:

   - Scope Name
   - Description
   - Legal Entity (for Process application)
   - Unit of Measure
   - Inactive Date
   - Type

   Status: The value is Draft, when creating or updating the plan.



3. In the Attributes table region, select the following values:

   - Attribute Type
   - Include Values, From and To Value range
   - Exclude Values, From and To Value range

4. Save your work.

5. Select Validate to run the Validate Cost Planning Scopes background process. This program checks if the products, resources, and overheads included in the scope have the unit of measure conversion defined. When the scope is validated, you can review the actual products, resources, and overheads finalized as this scope.

   If the scope validation fails or does not process, you can see the status and errors in the Completion Text field on the Background Process page: see: Background Process Errors, page 2-15

   You can export these details to a spreadsheet, see: Background Processes, page 2-14

Searching and Viewing Allocation Rules

Allocation rules are used to define the cost calculation method for your cost plan. The rule sets the allocation pool, scope, driver, and cost elements or component class and analysis codes in a plan.

You have the option to search for allocation rules using a quick or advanced query:

- Quick Query enables searching when you know information such as part of a name or description.
- Advanced search offers multiple search criteria and conditional qualifiers. This method is used when looking for specific values.

To search for and view allocation rules:

1. Navigate to the Allocation Rules page by choosing either the Discrete or Process application.

   A listing of records appears in the table.

2. For a Quick Query in the Search region—select either Name or Description, and enter a value.

3. Select the Search icon to view the results of your query.

4. Optionally, you can select Advanced to use additional criteria for the query on the Advanced search section of the page.

5. In this search method, specify how to filter the results of your search criteria by choosing either to match All or Any of the fields listed.

6. Enter values in the applicable fields for your search. The default values appearing on the page are the following:
   - Name
   - Description
   - Cost Element (for Discrete application)
   - Subelement (for Discrete application)
   - Inactive Date

7. For each search criteria value, select a conditional qualifier.

   Choices are: Starts with, Ends with, Equals, Does not equal, Less than, Less than or

equal to, Greater than, Greater than or equal to , Between, Not between, Contains, Does not contain, Is blank, Is not blank.

8. Enter a value for any of the following fields:

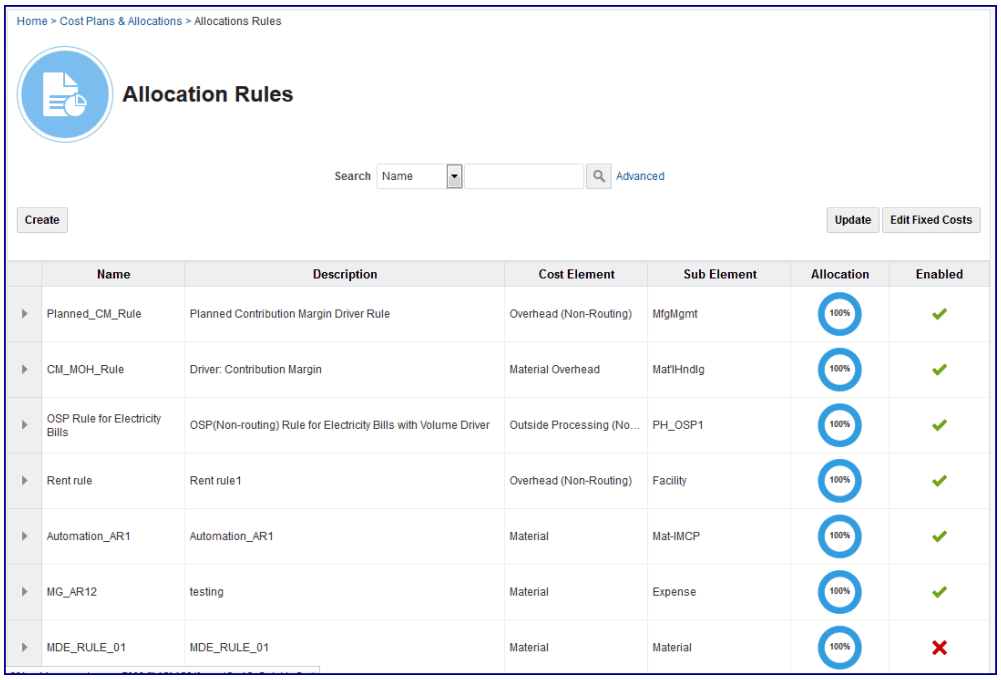
Discrete	Process
Allocation %	Allocation %
Basis Type	Analysis Code
Classification	Classification
-	Component Class Code
Driver	Driver
Driver Plan	Driver Plan
Driver Plan Type	Driver Plan Type
Function	Function

9. Select Search to display the results of your search. The details of your records appear in the following fields for Discrete and Process applications.

   Discrete application fields are:

   - Name and Description: The unique name for this record and descriptive text.
   - Cost Element: The choices set up in your general ledger.
   - Subelement: Mandatory field for some cost elements.
   - Allocation: Percent allocation if this rule is associated with an allocation pool.
   - Enabled

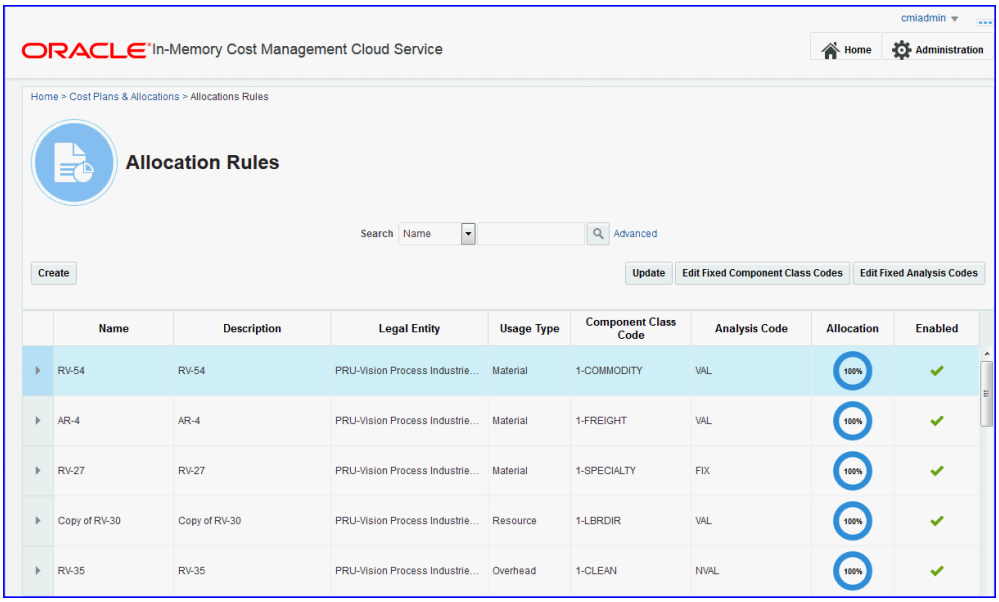
Discrete Industries



Process application fields are:

- Name and Description
- Legal Entity
- Usage Type
- Component Class Code
- Analysis Code
- Allocation Percentage
- Enabled

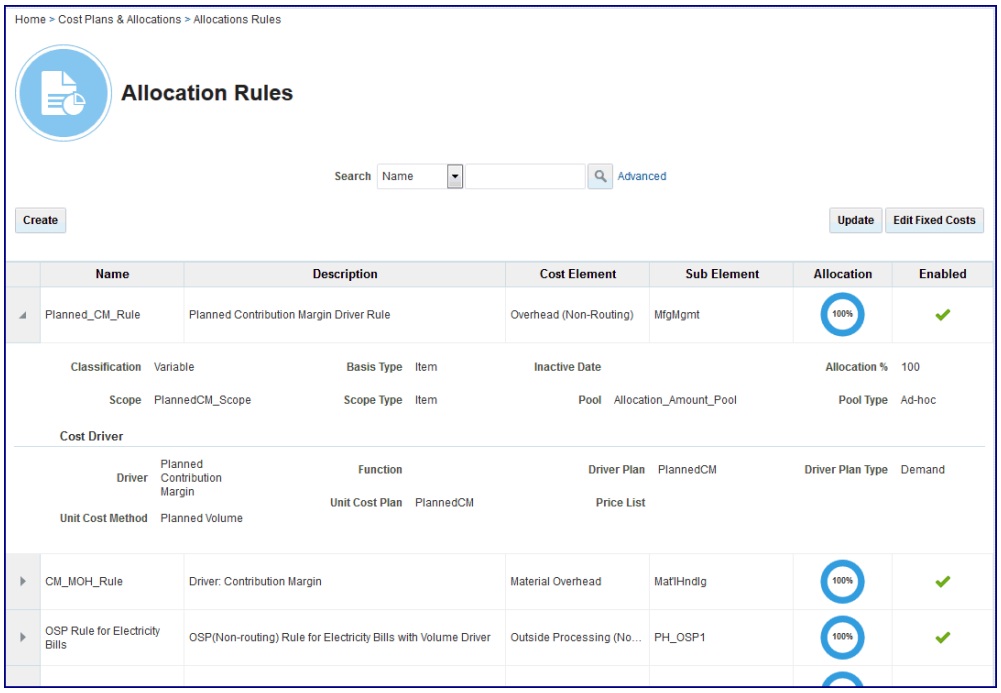
Process Industries



10. Select a record to view details of a particular rule. Information for this record appears in the following fields:

    - Classification
    - Basis Type (for Discrete)
    - Scope
    - Scope Type
    - Pool
    - Pool Type
    - Inactive Date
    - Allocation Percentage

      Note: The allocation percentage value is applicable only for the rules associated to a pool.



The Cost Driver section of the details region shows information in the following fields:

- Driver: Cost basis used to allocate costs to product.
- Function: Choices are Average, First, Last, Maximum, Minimum.
- Driver Plan
- Driver Plan Type: This value is dependent on the cost driver selected.
- Unit Cost Method: Choices are Average, First, Last, Maximum, Minimum.
- Unit Cost Plan
- Price List

11. You can navigate to the following pages by selecting:
    - Create to access the Create Rule page.
    - Update to access the Update Rule page.

      See: Creating and Updating Allocation Rules, page 3-29

    - Manage Fixed Cost Subelements to access the dialog window for Discrete cost elements.

- Manage Fixed Component Class Codes and Fixed Analysis Codes to access the dialog windows for fixed Process codes.

  See: Managing Fixed Costs and Fixed Codes, page 3-26

Managing Fixed Costs and Fixed Codes

You can edit fixed cost subelements, fixed component class codes, and fixed analysis codes within In-Memory Cost Management Cloud Service without having to navigate outside of the application.

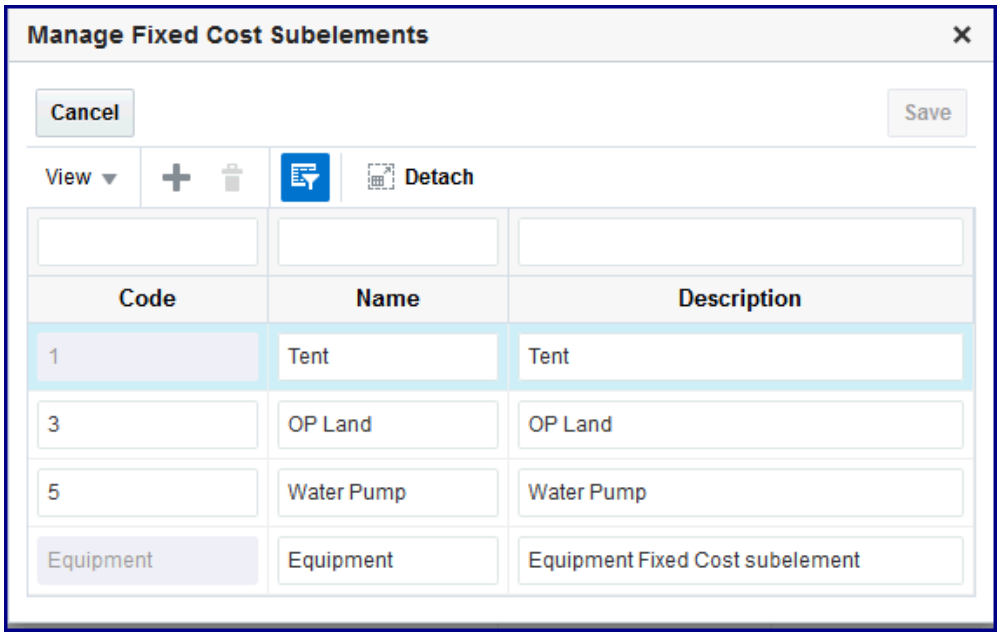
- Fixed cost subelements :Fixed amount charged per item moved in an operation.
- Fixed component class codes: Used to identify the individual buckets or component costs that make up the total cost. These cost may include the following: direct material costs, freight costs, labor costs, production, or conversion costs.
- Fixed analysis codes: Identifies a particular cost component class that can be further broken down using cost analysis codes for more granular tracking of costs. The cost analysis codes are used to group component costs from multiple cost component class types to provide an alternate view of the total cost.

To manage fixed cost subelements:

1. Navigate to the Allocation Rules page for Discrete products and select Edit Fixed Costs.

   The Manage Fixed Cost Subelements dialog window appears.

2. You can perform the following tasks to maintain fixed cost subelements:
   - Add—select the Add Row icon to create a new record. Enter values in the Code, Name, and Description fields in the new row.
   - Change—select a record to change information. Enter the applicable information in the Code, Name, and Description fields of the row.
   - Delete—select rows and select the Delete selected rows icon.



3. Save your work.

To manage fixed component class codes:

1. Navigate to the Allocation Rules page for Process products and select Edit Fixed Component Class Codes.

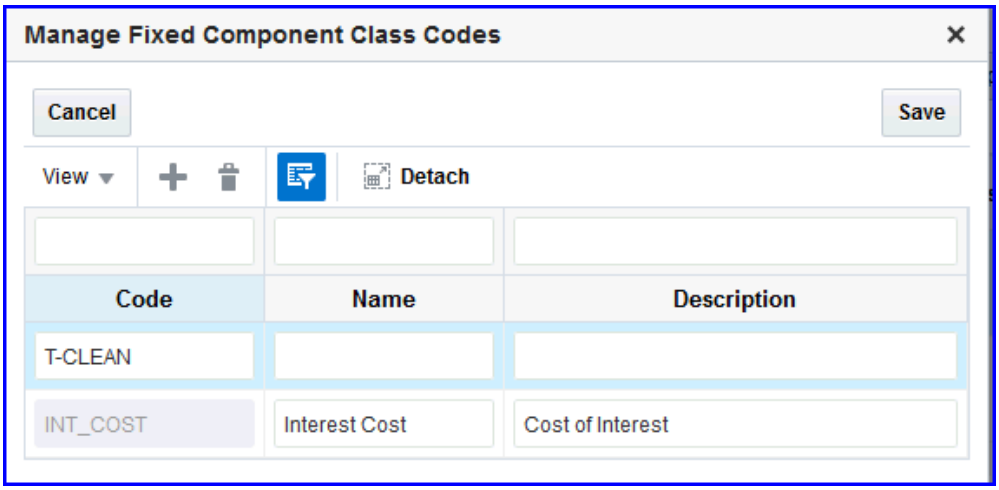
   The Manage Fixed Component Class Codes dialog window appears.

2. You can perform the following tasks to maintain fixed component class codes:

   - Add—select the Add Row icon to create a new record. Enter values in the Code, Name, and Description fields in the new row.

   - Change—select a record to change information. Enter the applicable information in the Code, Name, and Description fields of the row.

   - Delete—select rows and select the Delete selected rows icon.



3. Save your work.

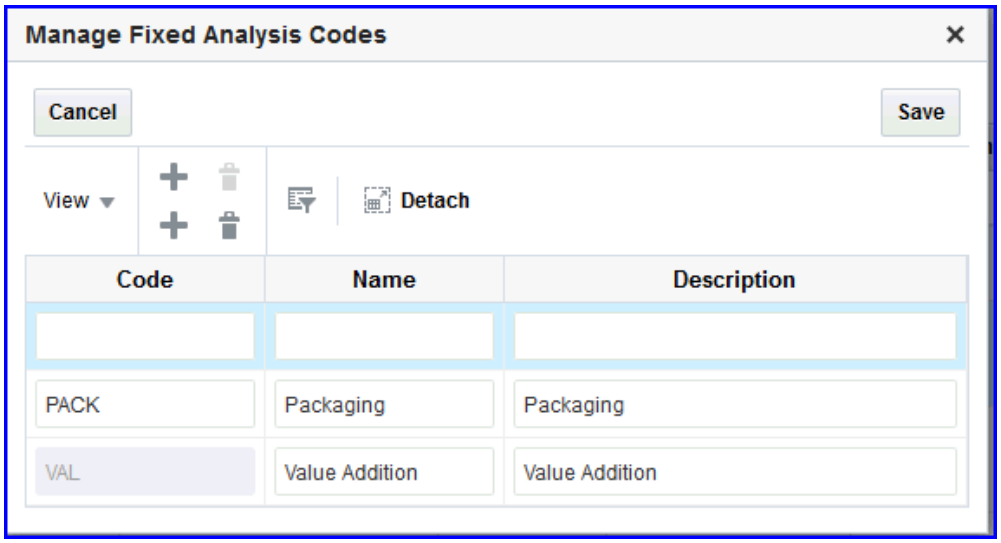
To manage fixed analysis codes:

1. Navigate to the Allocation Rules page for Process products and select Edit Fixed Analysis Codes

   The Manage Fixed Analysis Codes dialog window appears.

2. You can perform the following tasks to maintain fixed component class codes:

   - Add—select Add Row icon to create a new record. Enter values in the Code, Name, and Description fields in the new row.
   - Change—select a record to change information. Enter the applicable information in the Code, Name, and Description fields of the row.
   - Delete—select rows and select the Delete selected rows icon.



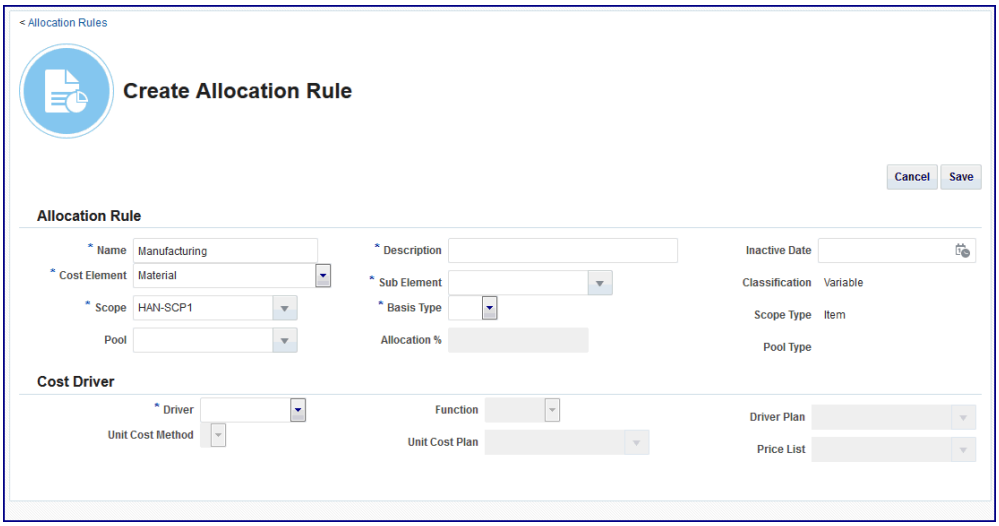
3. Save your work.

Creating and Updating Allocation Rules

The allocation rule defines the allocation details including cost elements, default allocation pool, default scope, and cost driver. A cost plan can have multiple allocation rules to use in various scenarios.

To create an allocation rule for the Discrete application:

1. Navigate to the Create Allocation Rule page by selecting the Discrete application.



2. In the Allocation Rule region, enter information in the following fields:
   - Name: Enter a unique value.
   - Cost Element, choices are:
     - Fixed Cost
     - Material
     - Material Overhead
     - Outside Processing (Non Routing)
     - Outside Processing (Routing)
     - Overhead (Non Routing)
     - Overhead (Routing)
     - Resource (Non Routing)
     - Resource (Routing)

       Note: Routing Versus Non Routing Cost Elements

       - Routing: Planning for the resource rate or overhead rate which will be used when rolling up the cost for items, using their respective routings.

- Non Routing: The cost plan is going to directly calculate the cost for the items being planned in the scope.

- Scope: Select an allocation scope record to use as a default in this rule.
- Pool: Select an allocation pool record to use as a default in this rule.
- Description: Enter descriptive text related to this rule.
- Subelement: The subelement is a mandatory field for all cost elements except the following: Resource (Routing), Overhead (Routing), and Outside Processing (Routing). In these cases the field is disabled.
- Basis Type, choices are:
  - For Material Overhead cost element—Item, Lot, Resource Units, Resource Value, Total Value.
  - All other cost elements: Item or Lot.

  This field is disabled for Resource (Routing), Overhead (Routing) and Outside Processing (Routing) cost elements.
- Allocation %: Enter the percentage amount allocated by the pool. The default value is 100. This field is only applicable for the rules associated to a pool.
- Inactive Date: Select a date this rule will no longer be active, if applicable.
- Classification, Scope Type, and Pool Type field values are derived from the cost element selection.

  In the Classification field, if the cost element is Fixed the classification is Fixed. For all other cost elements the classification is Variable.

3. Select values in the Cost Driver region to specify the method to apportion amounts or expenses chosen in the pool and applied to the members in the scope.

   Scope members can be items, resources, and overheads. Depending on the Driver value selected, certain fields are enabled or disabled.

   - Driver, choices are:
     - If the default Allocation Pool is null—the choices are Invoice, Landed Cost, Price List, Purchase Order, Quote, or Receipt.
     - If the default Allocation Pool is provided—the cost driver choices are Volume, Value, Contribution Margin, Planned Volume, Planned Value, and

Planned Contribution Margin.

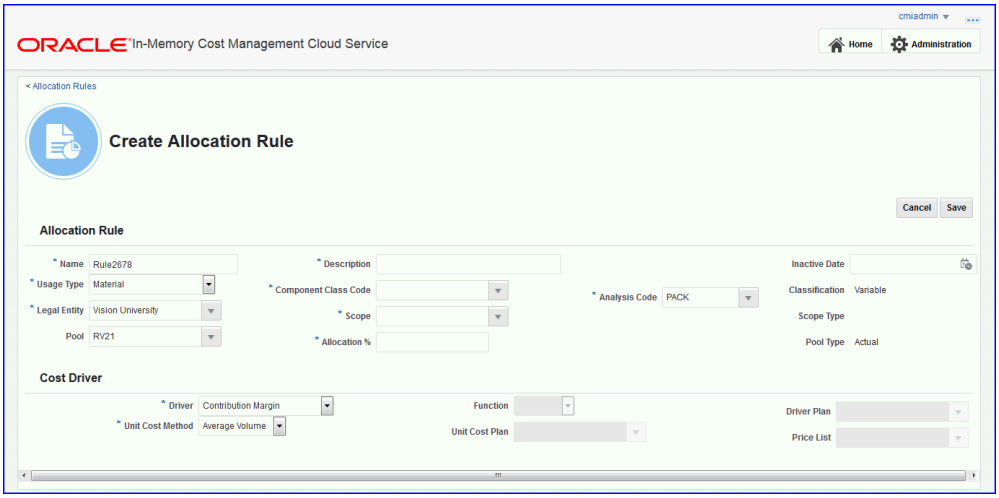
- Unit Cost Method—choices are Planned or Average Volume.
- Function—choices are Average, First, Last, Maximum, or Minimum.
- Unit Cost Plan—the value in the Unit Cost Method field determines plans successfully imported into Cost Planning.
- Driver Plan—this value is imported after you run the Import Supply/Demand for Cost Planning process.

  This field is enabled only for cost drivers Planned Volume, Planned Value, and Planned Contribution Margin.
- Cost Driver Plan Type—Three different plan types are supported dependent on the cost driver selected including: Procurement, Production, and Demand.
- Price List—Imported records when the driver is a price list.

4. Save your work.

To create an allocation rule for the Process application:

1. Navigate to the Create Allocation Rule page by selecting the Process application.



2. In the Allocation Rule region, enter information in the following fields:
   - Name: Enter a unique value.
   - Usage Type, choices are:

- Fixed Cost
- Material
- Overhead
- Resource
- Standard Cost Adjustment

- Legal Entity: Corporation, partnership for a legal construct.
- Pool: Select an allocation pool record to use as a default in this rule.
- Description: Enter descriptive text related to this rule.
- Component Class Code: Identifies the cost component class associated to the item cost record
- Scope: Select an allocation scope record to use as a default in this rule.
- Allocation %: Enter the percentage amount allocated by the pool. The default value is 100. This field is only applicable for the rules associated to a pool.
- Analysis Code: Codes used to group component costs from multiple cost component class types.
- Inactive Date: Select a date this rule will no longer be active, if applicable.
- Classification, Scope Type, and Pool Type field values are derived from the cost element selection.

  In the Classification field, if the usage type is Fixed Cost, the classification is Fixed. For all other usage types the classification is Variable.

3. Select values in the Cost Driver region to specify the method to apportion costs chosen in the pool and applied to the members in the scope.

   Scope members can be products, resources, and overheads. Depending on the Driver value selected, certain fields are enabled or disabled.

   - Driver, choices are:
     - If the default Allocation Pool is null—the choices are Invoice, Landed Cost, Price List, Purchase Order, Quote, or Receipt.
     - If the default Allocation Pool is provided—the cost driver choices are Volume, Value, Contribution Margin, Planned Volume, Planned Value, and

Planned Contribution Margin.

- Unit Cost Method—choices are Planned or Average Volume.
- Function—choices are Average, First, Last, Maximum, or Minimum.
- Unit Cost Plan—the value in the Unit Cost Method field determines plans successfully imported into Cost Planning.
- Driver Plan—this value is imported after you run the Import Supply/Demand for Cost Planning process.

  This field is enabled only for cost drivers Planned Volume, Planned Value, and Planned Contribution Margin.
- Cost Driver Plan Type—Three different plan types are supported dependent on the cost driver selected including: Procurement, Production, and Demand.
- Price List—Imported records when the driver is a price list.

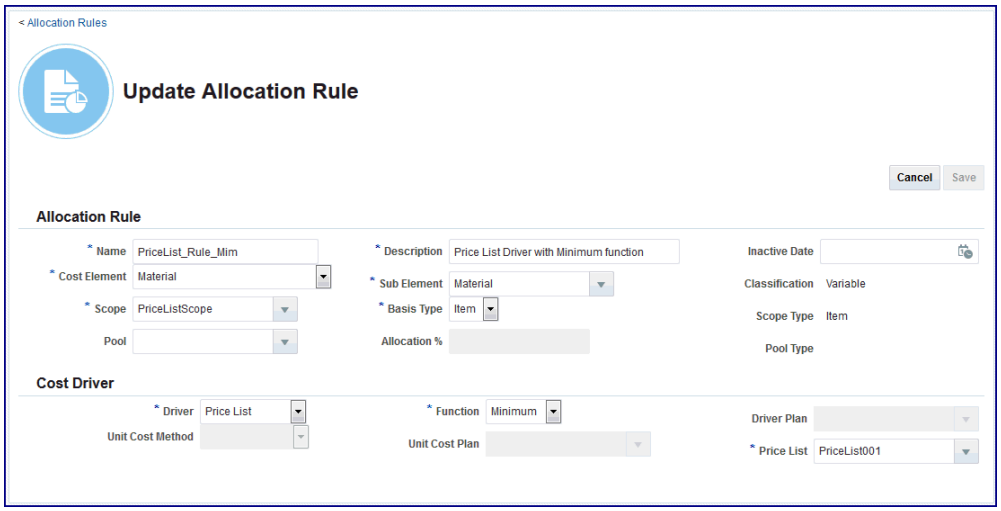
4. Save your work.

To update an allocation rule:

1. Navigate to the Update Allocation Rule page for a selected record.
2. Enter your appropriate updates.

   Most fields for an existing allocation rule can be updated, but various fields are dependent on values entered in other fields.

   Classification, Pool, and Scope Type fields cannot be edited.



3. Save your work.

Searching and Viewing Cost Plans

Cost plans are used to create the allocations defined by the rules included in the cost plan. New cost types are created after generating a new cost plan. Cost types are used in simulations enabling you to use estimated costs and check how it impacts the current production and profitability.

You have the option to search for cost plans using a quick or advanced query:

- Quick Query enables searching when you know information such as part of a name or description.
- Advanced search offers multiple search criteria and conditional qualifiers. This method is used when looking for specific values.

To search for cost plans:

1. Navigate to the Cost Plans page by choosing either the Discrete or Process application.

   A list of existing cost plans appears in a table on the page.

2. For a Quick Query in the Search region select one of the fields and enter a value:
   - Plan Code
   - Description
   - Legal Entity (for Process)

- Status

3. Select the Search icon to view the results of your query.

4. Optionally, you can select Advanced to use additional criteria for the query on the Advanced search section of the page.

5. In this search method, specify how to filter the results of your search criteria by choosing either to match All or Any of the fields listed.

6. Enter values in the applicable fields for your search.

Discrete	Process
-	Plan Calendar
From and To Month	From and To Period
Basis Cost Type	Basis Cost Type
-	Basis Calendar
-	Basis Period
Currency	Currency
Plan Date	Plan Date

7. For each search criteria value, select a conditional qualifier. Choices are: Starts with, Ends with, Equals, Does not equal, Less than, Less than or equal to, Greater than, Greater than or equal to, Between, Not between, Contains, Does not contain, Is blank, Is not blank.

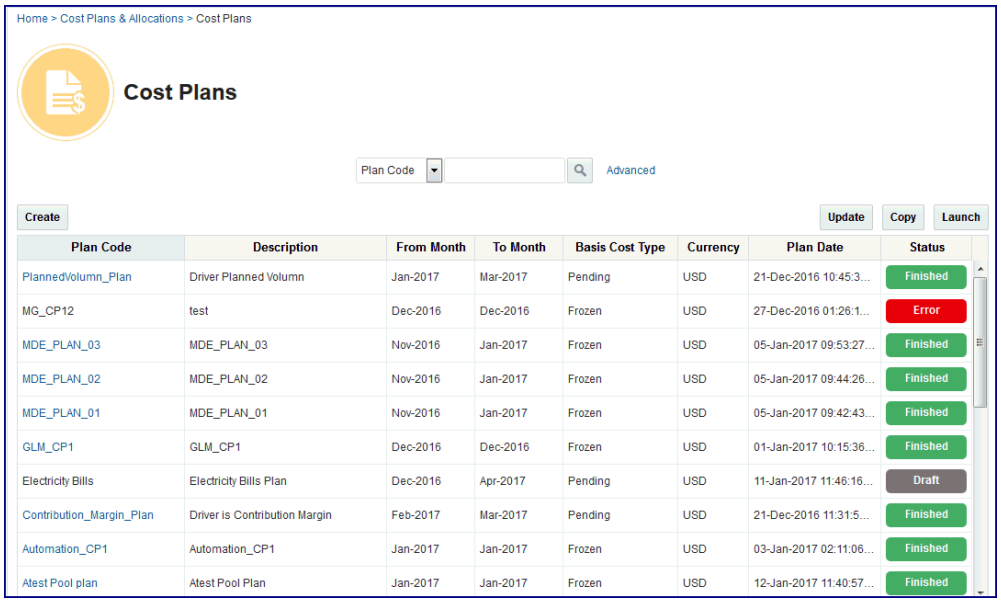
8. Select Search to display the results of your search in the table.

To view cost plan search results:

1. Navigate to the Cost Plans page by choosing either the Discrete or Process application.

   A listing of current cost plans appears in a table.

Discrete Industries



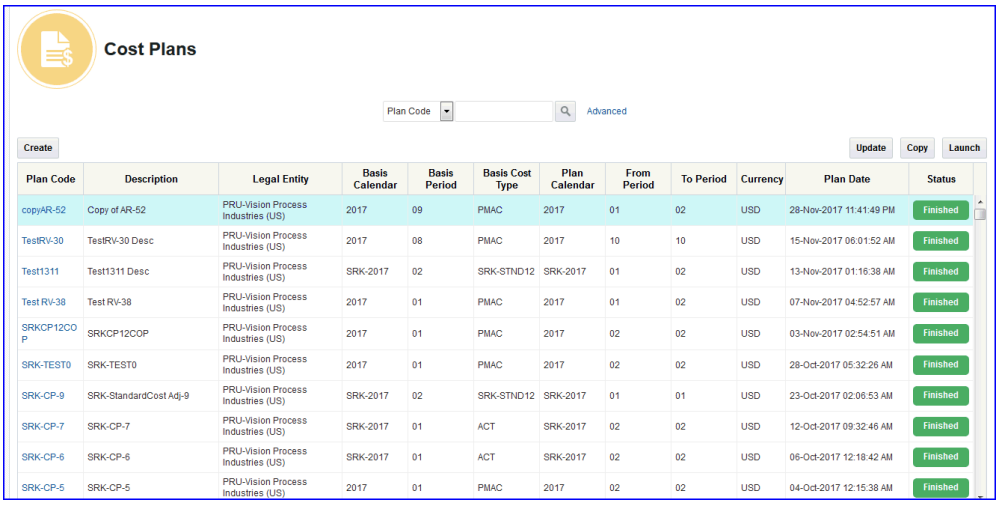
Plan Code	Description	From Month	To Month	Basis Cost Type	Currency	Plan Date	Status
PlannedVolumn_Plan	Driver Planned Volumn	Jan-2017	Mar-2017	Pending	USD	21-Dec-2016 10:45:3...	Finished
MG_CP12	test	Dec-2016	Dec-2016	Frozen	USD	27-Dec-2016 01:26:1...	Error
MDE_PLAN_03	MDE_PLAN_03	Nov-2016	Jan-2017	Frozen	USD	05-Jan-2017 09:53:27...	Finished
MDE_PLAN_02	MDE_PLAN_02	Nov-2016	Jan-2017	Frozen	USD	05-Jan-2017 09:44:26...	Finished
MDE_PLAN_01	MDE_PLAN_01	Nov-2016	Jan-2017	Frozen	USD	05-Jan-2017 09:42:43...	Finished
GLM_CP1	GLM_CP1	Dec-2016	Dec-2016	Frozen	USD	01-Jan-2017 10:15:36...	Finished
Electricity Bills	Electricity Bills Plan	Dec-2016	Apr-2017	Pending	USD	11-Jan-2017 11:46:16...	Draft
Contribution_Margin_Plan	Driver is Contribution Margin	Feb-2017	Mar-2017	Pending	USD	21-Dec-2016 11:31:5...	Finished
Automation_CP1	Automation_CP1	Jan-2017	Jan-2017	Frozen	USD	03-Jan-2017 02:11:06...	Finished
Atest Pool plan	Atest Pool Plan	Jan-2017	Jan-2017	Frozen	USD	12-Jan-2017 11:40:57...	Finished

The following values appear for the Discrete application:

- Plan Code: Unique value created for the cost plan.
- Description of the cost plan.
- From and To Month: Time period range for the cost plan.
- Basis Cost Type: Planned costs are derived from the basis cost type.
- Currency for the plan as defined in the ledger.
- Plan Date: Date and time the previous cost plan completed its run.
- Status: The following values are system generated after the plan is launched: Submitted, Running, Error, or Finished values—depending on the plan execution phase and results.

  Note: If the In-Memory Cost Planning Engine program does not process, you can view errors in the Completion Text field on the Background Process page, see: Background Process Errors, page 2-15

Process Industries



Plan Code	Description	Legal Entity	Basis Calendar	Basis Period	Basis Cost Type	Plan Calendar	From Period	To Period	Currency	Plan Date	Status
copyAR-52	Copy of AR-52	PRU-Vision Process Industries (US)	2017	09	PMAC	2017	01	02	USD	28-Nov-2017 11:41:49 PM	Finished
TestRV-30	TestRV-30 Desc	PRU-Vision Process Industries (US)	2017	08	PMAC	2017	10	10	USD	15-Nov-2017 06:01:52 AM	Finished
Test1311	Test1311 Desc	PRU-Vision Process Industries (US)	SRK-2017	02	SRK-STND12	SRK-2017	01	02	USD	13-Nov-2017 01:16:38 AM	Finished
Test RV-38	Test RV-38	PRU-Vision Process Industries (US)	2017	01	PMAC	2017	01	02	USD	07-Nov-2017 04:52:57 AM	Finished
SRKCP12COP	SRKCP12COP	PRU-Vision Process Industries (US)	2017	01	PMAC	2017	02	02	USD	03-Nov-2017 02:54:51 AM	Finished
SRK-TEST0	SRK-TEST0	PRU-Vision Process Industries (US)	2017	01	PMAC	2017	02	02	USD	28-Oct-2017 05:32:26 AM	Finished
SRK-CP-9	SRK-StandardCost Adj-9	PRU-Vision Process Industries (US)	SRK-2017	02	SRK-STND12	SRK-2017	01	01	USD	23-Oct-2017 02:06:53 AM	Finished
SRK-CP-7	SRK-CP-7	PRU-Vision Process Industries (US)	SRK-2017	01	ACT	SRK-2017	02	02	USD	12-Oct-2017 09:32:46 AM	Finished
SRK-CP-6	SRK-CP-6	PRU-Vision Process Industries (US)	SRK-2017	01	ACT	SRK-2017	02	02	USD	06-Oct-2017 12:18:42 AM	Finished
SRK-CP-5	SRK-CP-5	PRU-Vision Process Industries (US)	2017	01	PMAC	2017	02	02	USD	04-Oct-2017 12:15:38 AM	Finished

The following values appear for the Process application:

- Plan Code: Unique value created for the cost plan.
- Description of the cost plan.
- Legal Entity: Corporation, partnership for a legal construct.
- Basis Calendar: Name of cost calendar defined for the resource costs for the legal entity.
- Basis Period: Period defined for the named basis calendar.
- Basis Cost Type: Used to apply activity costs to items.
- Plan Calendar
- From and To Period
- Currency for the plan as defined in the ledger.
- Plan Date: Date and time the previous cost plan completed its run.
- Status: The following values are system generated after the plan is launched: Submitted, Running, Error, or Finished values—depending on the plan execution phase and results.

  Note: If the In-Memory Cost Planning Engine program does not process, you can view errors in the Completion Text field on the

Background Process page, see: Background Process Errors, page 2-15

2. On this page you can navigate to the following pages by selecting:
   - A specific Plan Code record to navigate to the Analyze Cost Plan page, see: Analyzing Specific Cost Plans, page 3-45
   - Create to access the Create Cost Plan page to create a new cost plan.
   - A cost plan record and choose Update to access the Update Cost Plan page.
   - A cost plan record and choose Copy to create a new plan using any of the details of this plan. You are required to replace Cost Plan and Basis Cost Type fields with new values.

   See: Creating and Updating Cost Plans, page 3-39

3. Select a record and choose Launch to run the In-Memory Cost Planning Engine background process to execute the cost plan.

   See: Background Processes, page 2-14

Creating and Updating Cost Plans

When creating and updating cost plans, the following components are used in the calculations:

- Standard costs for direct purchase of materials are estimated based on one or more sources, such as purchase contracts, price lists, and historical prices.
- Material overhead costs, such as the cost of related services or support operations (freight, brokerage, taxes, material handling salaries, and so forth) may be estimated using either a landed cost or through an analysis of prior period expenses.
- General overhead costs (such as manufacturing facility rent, energy, supervisor salaries) are usually estimated based on an analysis of prior period expenses.

You can choose multiple allocation rules for particular plan periods, enabling the plan to be used across organizations. For example, you can include the following values in your allocation rules:

- Specify a percentage of dollars the current plan can absorb.
- Provide a mark up percent for calculating the impact of inflation.

To create a new allocation cost plan for the Discrete application:

1. Navigate to the Create Cost Plan page by choosing the Discrete application.

2. In the Plan Header region of the page, enter values in the following fields:

   - Plan Code: A unique value for this plan. This code can be used to compare plans or treated as a separate cost type.

   - Description: Descriptive text for this plan.

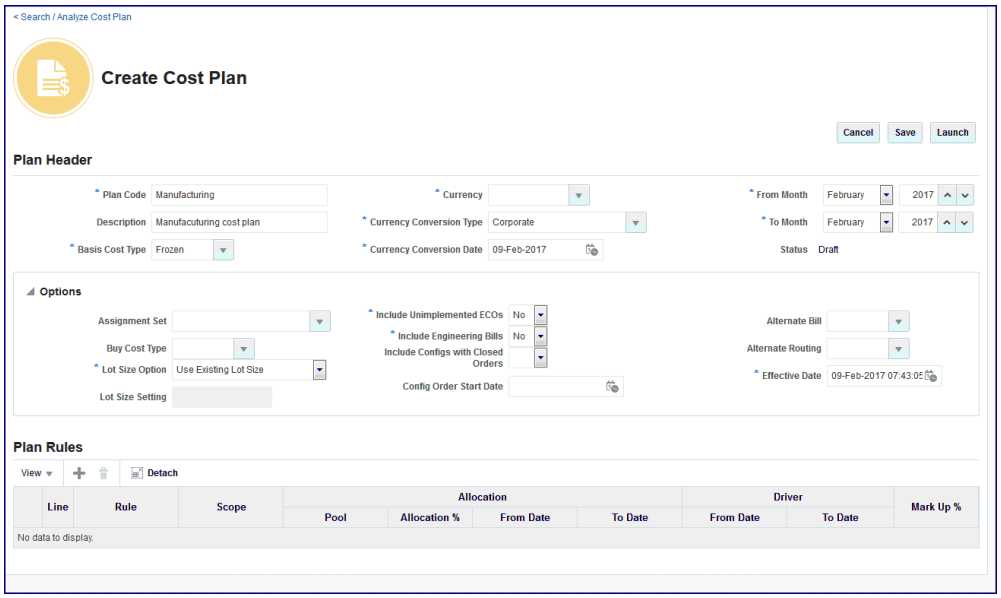
   - Basis Cost Type: This basis type is used to determine how the overhead cost is earned and how it is applied to product costs.

     Costs are defined in Oracle Cost Management. See: Defining Item Costs, *Oracle Cost Management User's Guide*. When the plan runs, it uses the existing cost types to store the planned costs, and creates new basis cost types.

   - Currency, Currency Conversion Type, and Currency Conversion Date: : The values for currency for the plan and the daily rate are defined in the ledger. These values are automatically converted into the conversion type.

   - From and To Month: Values in these fields define the time period range for the cost plan

   - Status: Values are system generated. This record is in Draft status when creating or updating the plan.



3. Use the Options region to add additional information depending upon how you set up the items in Oracle Manufacturing, including the Planning, Bills of Material, Configurator, and Inventory products. These fields are used in the cost rollup and include:

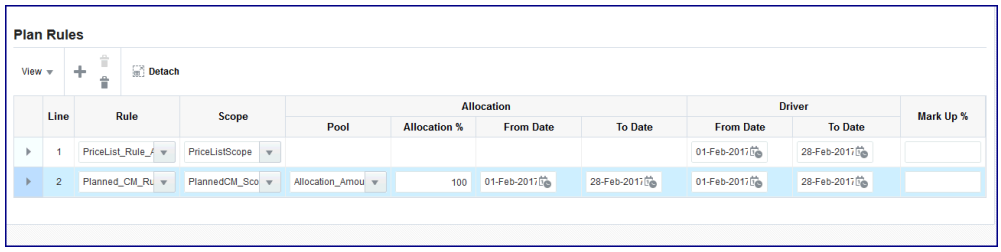
   - Assignment Set: A group of sourcing rules for items whose replenishment they control.
   - Buy Cost Type: Costs are summed into this level of material cost for assignment sets.
   - Lot Size Option
   - Lot Size Setting
   - Include Unimplemented ECOs
   - Include Engineering Bills
   - Include Configs with Closed Orders
   - Config Order Start Date
   - Alternate Bill
   - Alternate Routing
   - Effective Date

4. In the Plan Rules region, select values in the Rule and Scope fields.

   You can choose multiple allocation rules for a given plan period, enabling the plan to be used across organizations.

5. For rules associated to a pool, select values in the Allocation section of the table and specify a percentage of dollars absorbed by the plan:

   - Pool
   - Allocation Percentage
   - From and To Date ranges
   - Driver, in this section enter:
     - From and To Date ranges values for this rule.
     - Mark Up Percentage: Provide a mark up percent for calculating the impact of inflation.



6. Save your work.

7. Choose Launch to run the In-Memory Cost Planning Engine background process to execute the cost plan. See: Background Processes, page 2-14

To create a new allocation cost plan for the Process application:

1. Navigate to the Create Cost Plan page by choosing the Process application.

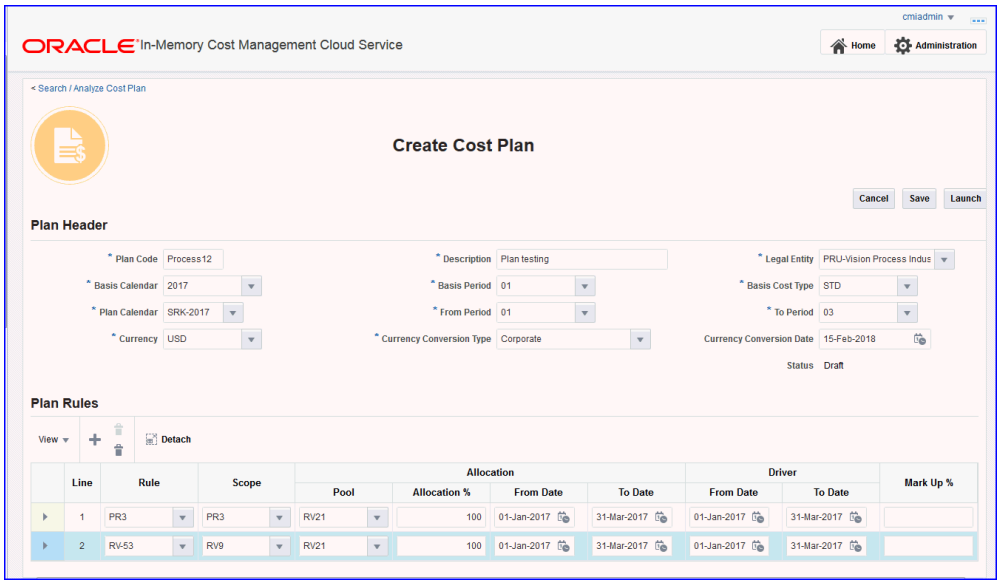
2. In the Plan Header region of the page, enter values in the following fields:

   - Plan Code: A unique value for this plan. This code can be used to compare plans or treated as a separate cost type.
   - Description: Descriptive text for this plan.
   - Legal Entity: Corporation, partnership for a legal construct.
   - Basis Calendar: Name of cost calendar defined for the resource costs for the

legal entity.

- Basis Period: Period defined for the named basis calendar.
- Basis Cost Type: This basis type is used to determine how the overhead cost is earned and how it is applied to product costs.

  Costs are defined in Oracle Cost Management. See: Defining Item Costs, *Oracle Cost Management User's Guide*. When the plan runs, it uses the existing cost types to store the planned costs, and creates new basis cost types.
- Plan Calendar, and From Period and To Period
- Currency, Currency Conversion Type, and Currency Conversion Date: : The values for currency for the plan and the daily rate are defined in the ledger. These values are automatically converted into the conversion type.
- Status: Values are system generated. This record is in Draft status when creating or updating the plan.



3. In the Plan Rules region, select values in the Rule and Scope fields.

   You can choose multiple allocation rules for a given plan period, enabling the plan to be used across organizations.

4. For rules associated to a pool, select values in the Allocation section of the table and specify a percentage of dollars absorbed by the plan:
   - Pool

- Allocation Percentage
- From and To Date ranges
- Driver, in this section enter:
  - From and To Date ranges values for this rule.
  - Mark Up Percentage: Provide a mark up percent for calculating the impact of inflation.

5. Save your work.
6. Choose Launch to run the In-Memory Cost Planning Engine background process to execute the cost plan. See: Background Processes, page 2-14

To create a new cost plan from an existing record:

1. Navigate to the Cost Plans page and select the record you want to duplicate.
2. Choose Copy.

   The Create Cost Plan page appears with details of this existing plan with the exception of several fields.
3. Enter new values in the existing plan:
   - **Discrete:** Enter a new value in the Cost Plan field.

     You can also change any of the other fields on this record.
   - **Process:** Enter new values in the Plan Code, Description, Basis Cost Type, and From and To Period fields.

     You can also change any of the other fields on this record.

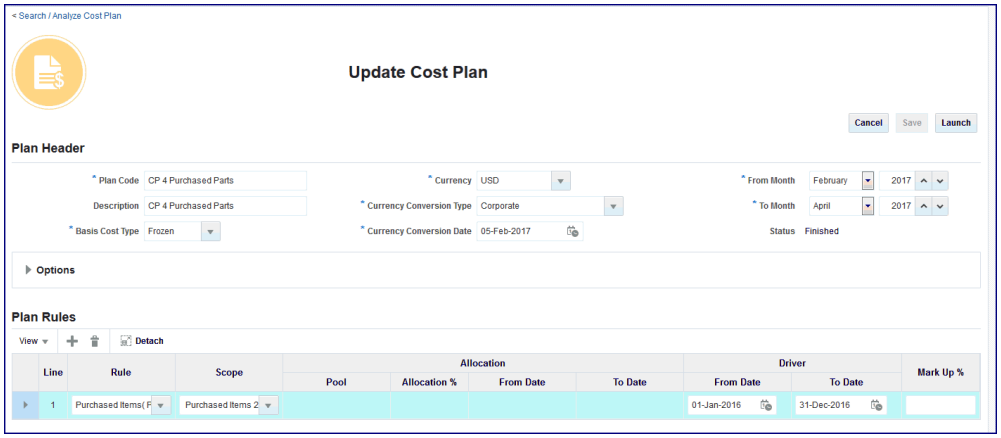
   Status values are system generated. This record is in Draft status when creating or updating the plan.
4. Save your work to create a new cost plan.
5. Choose Launch to run the In-Memory Cost Planning Engine background process to execute the cost plan. See: Background Processes, page 2-14

To update an existing cost plan:

1. Select a cost plan record and navigate to the Update Cost Plan page.
2. Update or change any of the fields in this cost plan record according to your specific

requirements.

Status values are system generated. This record is in Draft status when creating or updating the plan.



3. Save your work.

4. Choose Launch to run the In-Memory Cost Planning Engine background process for the updated cost plan. See: Background Processes, page 2-14

Analyzing Specific Cost Plans

The Analyze Cost Plan page shows all the elements included in a specific cost plan and enables you to examine direct and indirect costs for this plan. When a cost plan is setup, this page enables you to navigate to both the Plan Organization Summary worksheet and Gross Profit Analyzer dashboard for the details of the plan's calculations. The page is divided into several regions: Plan Header and and Rules where you can view your setup for costs from expenses incurred in the supply chain for purchased parts and corresponding monthly or period details.

To review a specific Discrete cost plan:

1. Navigate to the Cost Plans page by choosing Discrete, and select a cost plan.

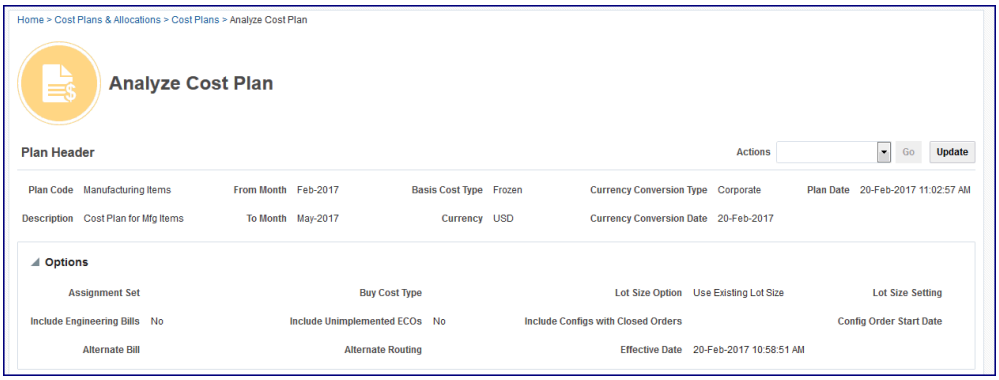
   The Analyze Cost Plan page appears.

   Note: The plan status must be Finished in order to render this page.

   - The Plan Header region of the page shows the following fields: Plan Code, Description, Basis Cost Type, Currency, Currency Conversion Type, Currency Conversion Date, and From and To Month.

- The Options section shows additional information depending on Oracle Manufacturing and is used in the cost rollup. The fields are Assignment Set, Buy Cost Type, Lot Size Option, Lot Size Setting, Include Unimplemented ECOs, Include Engineering Bills, Include Configs with Closed Orders, Config Order Start Date, Alternate Bill, Alternate Routing, and Effective Date.

  See: Creating and Updating Cost Plans, page 3-39



2. The Rules region shows all rules created for a particular plan. Select the rule you want to view, and the details appear in the detail panel. The following sections appear in the panel:

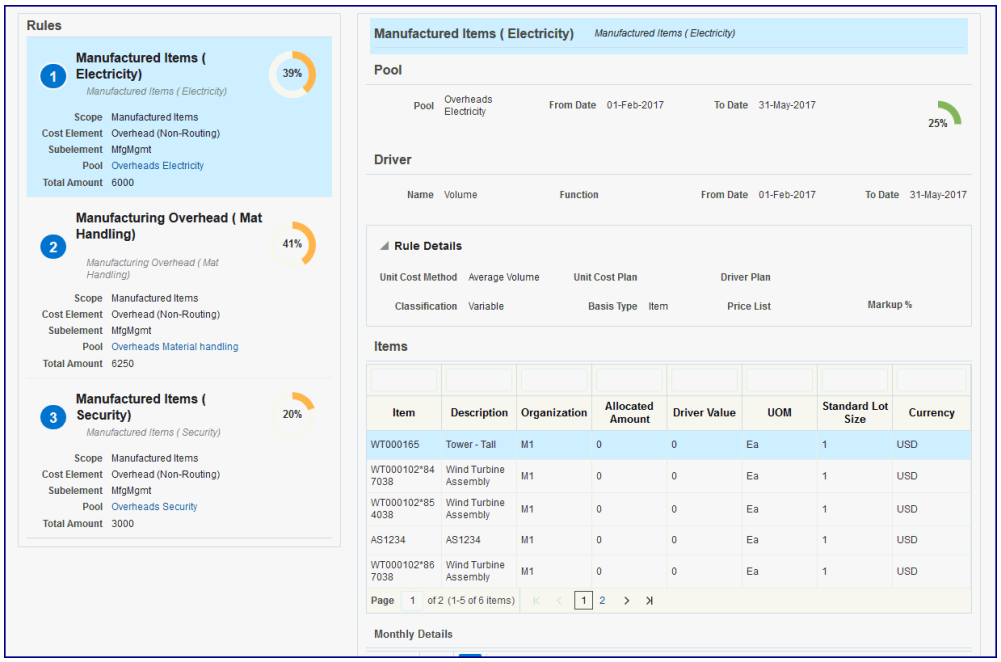
   - Pool details appear if the rule is associated to a pool including pool name, active dates, and allocation percent for the rule.

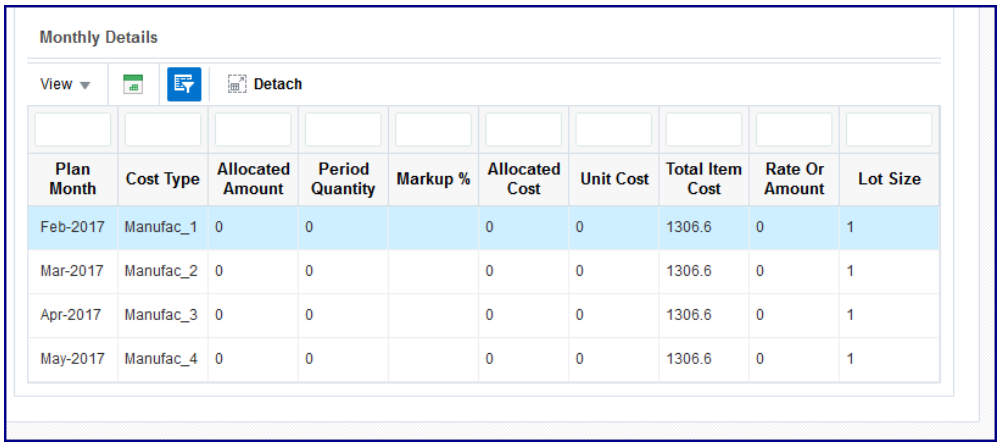
   - Driver details appear if the a driver is attached to a rule including Name, Function and active dates.

   - Rule details including Unit Cost Method, Unit Cost Plan, Driver Plan, Classification, Basis Type, Price List, and Markup percentage.

   - Items or Resources section, depending on the scope type selected for this rule including Item, Description, Organization, Allocated Amount, Driver Value, Unit of Measure, Standard Lot Size, and Currency.

   - Monthly Details of this plan including Plan Month, Cost Type, Allocated Amount, Markup percentage, Period Quantity, Allocated Cost, Unit Cost, Total Item Cost, Rate or Amount, and Lot Size.





3. Select the Spreadsheet icon in the Monthly Details section to navigate to the Plan Item Detail worksheet for this plan, see Plan Item Summary and Details, page 4-6

4. Select a value in the Actions box to submit background processes, or to navigate to the Simulation worksheet or Gross Profit Analyzer dashboard. Choices are:

   - Calculate Actuals: Launches the Calculate Actual COGM (Discrete) to calculate the actual cost of goods manufactured for a given cost plan, see: Background Processes, page 2-14

   - Calculate Profitability: Launches the Margin Load for Plan program that estimates the excess income over expenditures for the plan, see: Incremental

Margin Load Programs, page 2-22

- Analyze COGM: Navigates to the Plan Organization Summary page. Select a production plan for this action. When you access this worksheet, you can Zoom In to the details of the plan, make changes, and launch a cost simulation. See: Plan Organization Summary, page 4-2

- Analyze Profitability: Navigates to the Gross Profit Analysis dashboard, which examines the profit received from the cost of the product, see: Overview of Analyzing Gross Profits, page 6-1

5. After selecting an action, choose Go.

6. Select Update to navigate to the Update Cost Plan page to make any changes for your plan, see: Creating and Updating Cost Plans, page 3-39

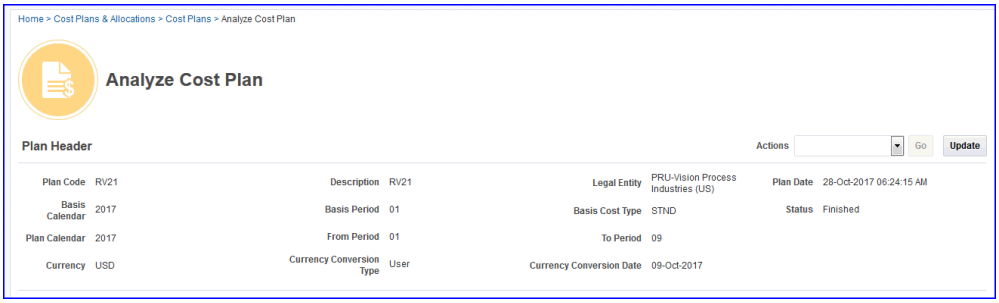
To review a specific Process cost plan:

1. Navigate to the Cost Plans page by choosing Process, and select a cost plan.

   The Analyze Cost Plan page appears.

   Note: The plan status must be Finished in order to render this page.

   The Plan Header region of the page shows the following fields: Plan Code, Description, Legal Entity, Plan Date, Basis Calendar, Basis Period, Basis Cost Type, Status, Plan Calendar, From and To Period, Currency, Currency Conversion Type, and Currency Conversion Date.



2. The Rules region shows all rules created for a particular plan. Select the rule you want to view, and the details appear in the detail panel. The following sections appear in the panel:

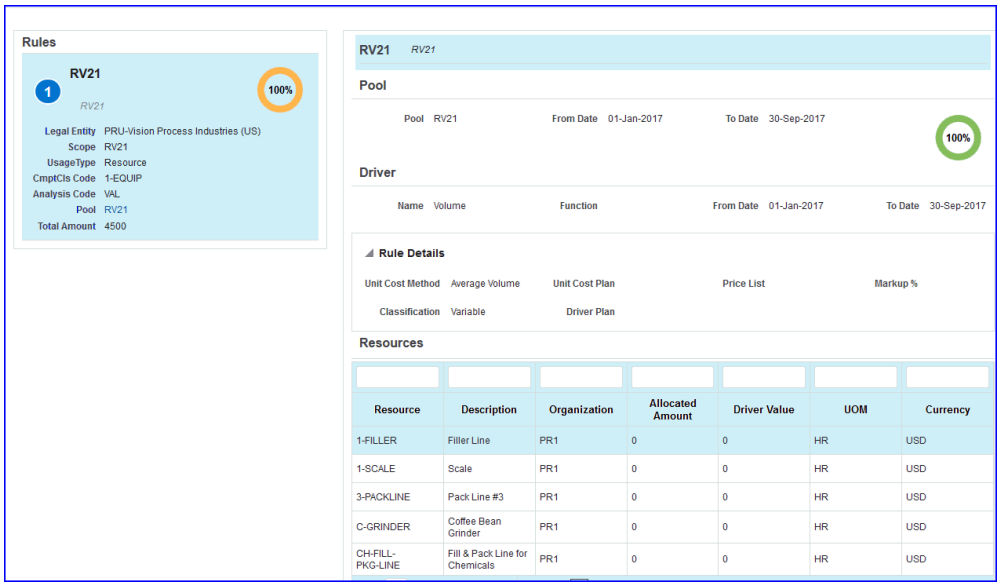
   - Pool details if the rule is associated to a pool including pool name, active dates, and allocation percent for the rule.

   - Driver details appear if the a driver is attached to a rule including Name,

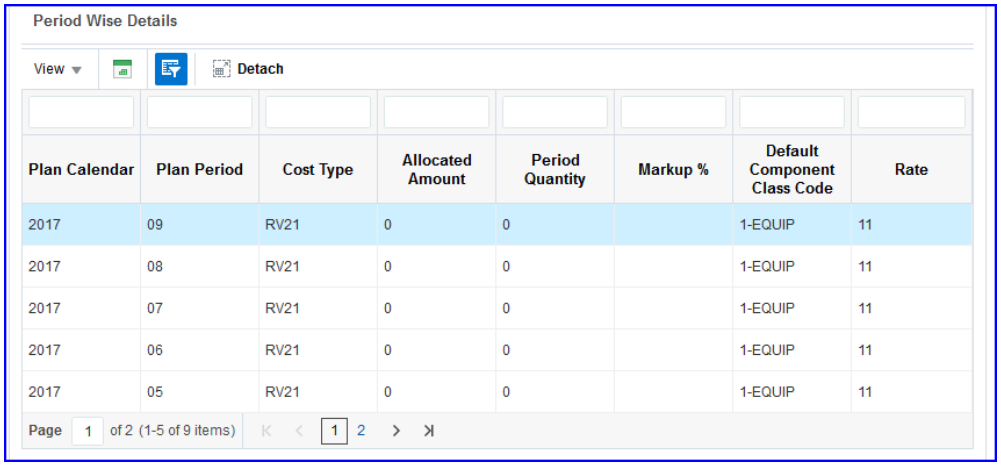
Function and active dates..

- Rule details including Unit Cost Method, Unit Cost Plan, Driver Plan, Classification, Basis Type, Price List, and Markup percentage.

- Items or Resources section, depending on the scope type selected for this rule including Resource name, Description, Organization, Allocated Amount, Driver Value, Unit of Measure, and Currency.



The Period Wise Details region show Plan Calendar, Plan Period, Cost Type, Allocated Amount, Markup percentage, Default Component Class Code, and Rate.



3. Select the Spreadsheet icon to navigate to the Plan Item Detail worksheet for this plan, see Plan Item Summary and Details, page 4-6

4. Select a value in the Actions box to submit background processes, or to navigate to the Simulation worksheet or Gross Profit Analyzer dashboard. Choices are:

    - Calculate Actuals: Launches the Calculate Actual COGM (Discrete) to calculate +the actual cost of goods manufactured for a given cost plan, see: Background Processes, page 2-14

    - Calculate Profitability: Launches the Margin Load for Plan program that estimates the excess income over expenditures for the plan, see: Incremental Margin Load Programs, page 2-22

    - Analyze COGM: Navigates to the Plan Organization Summary page. Select a production plan for this action. When you access this worksheet, you can Zoom In to the details of the plan, make changes, and launch a cost simulation. See: Plan Organization Summary, page 4-2

    - Analyze Profitability: Navigates to the Gross Profit Analysis dashboard, which examines the profit received from the cost of the product, see: Overview of Analyzing Gross Profits, page 6-1

5. After selecting an action, choose Go.

6. Select Update to navigate to the Update Cost Plan page to make any changes for your plan, see: Creating and Updating Cost Plans, page 3-39

4

Cost Plan Analysis

Overview of Cost Plan Analysis

You can analyze product costs using detailed planned cost structures, cost of goods manufactured, and contribution margin of products in the following worksheets:

- Plan Organization Summary, page 4-2
- Plan Item Summary and Details, page 4-6
- Plan Item Cost Structure Details, page 4-12
- Overhead Summary and Details, page 4-15
- Resource Summary and Details, page 4-16

Setting Up Cost Data Creation for Analysis

After you set up allocation pools, scopes, drivers, rules, and cost plans—run the following background processes to generate data for displaying on the Smart View worksheets and Oracle Analytics Cloud Service dashboards. Submit these processes in the following order:

1. **Import Supply/Demand for Cost Planning and Validate Cost Planning Scopes**
    - Import Supply/Demand for Cost Planning imports the supply and demand that a cost plan uses to calculate driver values and unit costs. Load the supply/demand plans into the REST web service Supply/Demand interface before running this program.
    - Validate Cost Planning Scopes validates the allocation scopes and finds any invalid settings.

Note: You can run these programs in any order, but both must be generated before running the In-Memory Cost Planning Engine, which requires the results of these programs to create data.

2. **In-Memory Cost Planning Engine** executes the cost plans and performs the driver value calculation, allocated amount calculation, and unit cost calculation for each plan month.

3. **Margin Load for Cost Plans** performs the margin load and calculates the profitability impact using the plan costs.

4. **Calculate Actual COGM** calculates the actual cost of goods manufactured for a given cost plan. The actual COGM can be used to compare with the plan COGM.

   Note: To ensure accurate data, run this program after the plan months have passed, when the actual cost data is available.

Related Topics

Background Processes, page 2-14

Overview of In-Memory Cost Management Cloud Service REST Web Services, page B-1

Viewing Plan Organization Summary Cost Information

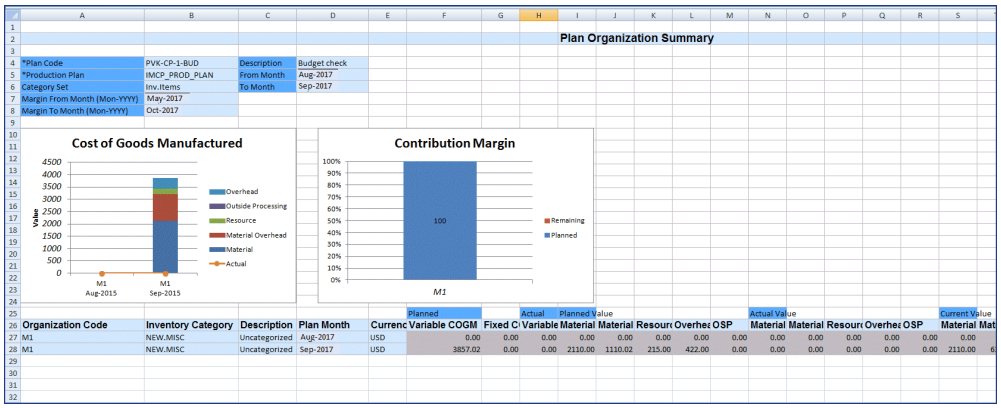
The Plan Organization Summary worksheet enables you to analyze the Cost of Goods Manufactured (COGM) and the contribution margin for all organizations, providing a view of cost saving areas when compared across the organization.

To view plan organization summary information for Discrete products:

1. Navigate to the Plan Organization Summary worksheet for a specific Plan Code and Production Plan.

   The following information appears for the Plan Code and Production Plan value combination in the worksheet heading:

   - Description
   - From and To Month date range
   - Category Set
   - Margin From and To Month date range



The graphs display the following data:

- The Cost of Goods Manufactured shows the costs per month for the organization.
- The Contribution Margin shows the percentage of cost contribution per unit, representing the portion of sales revenue that contributes to the coverage of fixed costs.

In the section following the graphs, details for each organization and for the plan month display planned and actual costs in the following rows:

- Organization Code
- Inventory Category
- Description
- Plan Month
- Currency: The primary currency associated with the general ledger
- Planned Variable COGM: Cost plan total cost multiplied by planned production volume.
- Planned Fixed COGM: Cost plan total fixed cost.
- Actual Variable COGM: Actual costs incurred to produce the item.
- Planned Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  planned cost multiplied by planned production
- Actual Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

actual cost incurred in production

- Current Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  current cost multiplied by planned production

2. Select an organization and double-click to navigate to the Item Summary worksheet. See: Viewing Plan Item Summaries and Details, page 4-6

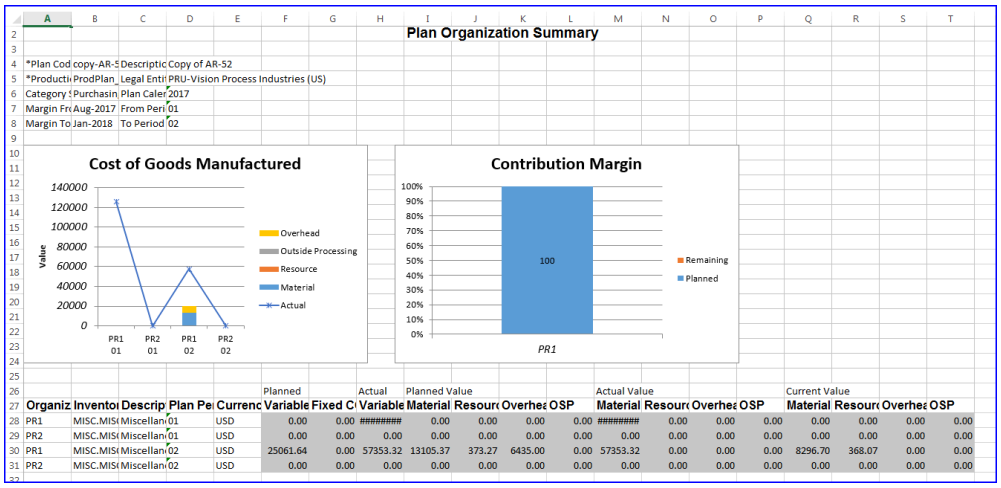
3. Select Launch Gross Profit Analyzer to display the dashboard. See: Overview of Analyzing Gross Profits, page 6-1

To view plan organization summary information for Process products:

1. Navigate to the Plan Organization Summary worksheet for a specific Plan Code and Production Plan.

   The following information appears for the Plan Code and Production Plan value combination in the worksheet heading:

   - Description
   - Legal Entity
   - From and To Margin date range
   - Category Set
   - Margin From and To Period date range



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In the section following the graphs, details for each organization and for the plan month display planned and actual costs in the following rows:

- Organization Code
- Inventory Category
- Description
- Plan Period
- Currency: The primary currency associated with the general ledger
- Planned Variable COGM: Cost plan total cost multiplied by planned production volume.
- Planned Fixed COGM: Cost plan total fixed cost.
- Actual Variable COGM: Actual costs incurred to produce the item.
- Planned Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  planned cost multiplied by planned production

- Actual Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  actual cost incurred in production

- Current Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  current cost multiplied by planned production

2. Select an organization and double-click to navigate to the Item Summary worksheet. See: Viewing Plan Item Summaries and Details, page 4-6

3. You can select the following functions in the In-Memory Cost Management ribbon:

   - Calculate Gross Profit to run a required background process for viewing the Gross Profit Analyzer dashboard, see: Background Processes, page 2-14

   - Launch Gross Profit Analyzer to display the dashboard after running the required background process and view the impact of the simulation just created on COGS and margins, see: Viewing an Overview of Gross Profits, page 6-4

Viewing Plan Item Summaries and Details

You can navigate to the Organization Summary worksheet and Zoom In to a single item's cost summary. This enables you to review details for each item in a plan month or period for planned, actual and current costs. The Cost of Manufactured Goods chart shows the value for planned and actual costs.

To view plan item summary information for Discrete products:

1. Navigate to the Plan Item Summary worksheet for a particular item.

   The following information appears in the worksheet heading:

   - Plan Code

   - Description

   - Production Plan

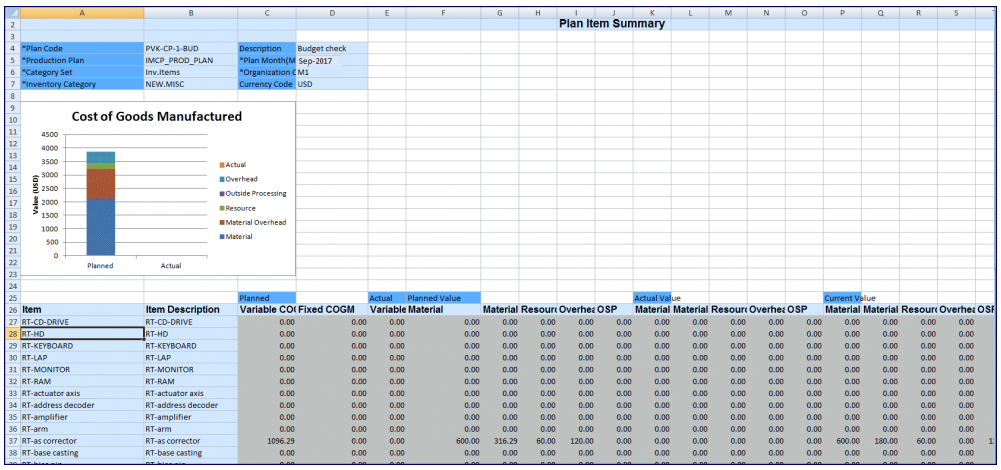
   - Plan Month

   - Category Set

   - Organization Code

   - Inventory Category

- Currency Code



In the Item listing, you can review the following data for each Item record:

- Planned Variable COGM: total cost multiplied by planned production volume
- Planned Fixed COGM: total fixed cost
- Actual Variable COGM: cost incurred to produce the item in production

  The calculation comes from work orders, material, and resources charged for the time period.

- Planned Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  planned cost multiplied by planned production

- Actual Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  actual cost incurred in production

- Current Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  current cost multiplied by planned production

2. You can select the following functions in the In-Memory Cost Management ribbon:
   - Calculate Gross Profit to run a required background process for viewing the Gross Profit Analyzer dashboard, see: Background Processes, page 2-14
   - Launch Gross Profit Analyzer to display the dashboard after running the required background process and view the impact of the simulation just created

on COGS and margins, see: Viewing an Overview of Gross Profits, page 6-4

3. Select an item and the Zoom In tool (or double-click left mouse button) to the Plan Item Cost Details worksheet.

   This worksheet is divided into three regions for a specific item:

   - Planned Item Detail

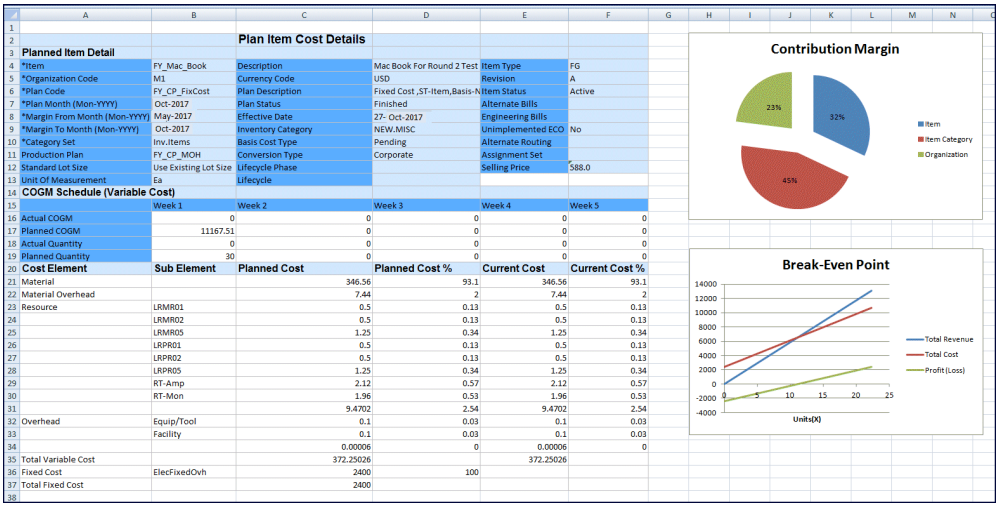
     Provides the details of the cost plan in the following fields: Item, Description, Item Type, Organization Code, Currency Code, Revision, Plan Code, Plan Description, Item Status, Plan Month, Plan Status, Alternate Bills, Margin From and To Months, Effective Date, Engineering Bills, Inventory Category, Unimplemented ECO, Category Set, Basis Cost Type, Alternate Routing, Production Plan, Conversion Type, Assignment Set, Standard Lot Size, Lifecycle Phase, Selling Price, Unit of Measure, and Lifecycle.

   - COGM Schedule

     Shows the weekly Actual and Planned Cost of Goods Manufactured and quantities.

   - Cost Element

     Provides a view of the detailed cost structure of the product for both planned and current costs. The columns in this region are: Cost Element, Subelement, Planned Cost, Planned Cost Percentage, Current Cost, and Current Cost Percentage.



		Plan Item Cost Details			
Planned Item Detail					
*Item	FY_Mac_Book	Description	Mac Book For Round 2 Test	Item Type	FG
*Organization Code	M1	Currency Code	USD	Revision	A
*Plan Code	FY_CP_FixCost	Plan Description	Fixed Cost ,ST-Item,Basis-N	Item Status	Active
*Plan Month (Mon-YYYY)	Oct-2017	Plan Status	Finished	Alternate Bills	
*Margin From Month (Mon-YYYY)	May-2017	Effective Date	27- Oct-2017	Engineering Bills	
*Margin To Month (Mon-YYYY)	Oct-2017	Inventory Category	NEW.MISC	Unimplemented ECO	No
*Category Set	Inv.Items	Basis Cost Type	Pending	Alternate Routing	
Production Plan	FY_CP_MOH	Conversion Type	Corporate	Assignment Set	
Standard Lot Size	Use Existing Lot Size	Lifecycle Phase		Selling Price	588.0
Unit Of Measurement	Ea	Lifecycle			
COGM Schedule (Variable Cost)					
	Week 1	Week 2	Week 3	Week 4	Week 5
Actual COGM	0	0	0	0	0
Planned COGM	11167.51	0	0	0	0
Actual Quantity	0	0	0	0	0
Planned Quantity	30	0	0	0	0

Cost Element	Sub Element	Planned Cost	Planned Cost %	Current Cost	Current Cost %
Material		346.56	93.1	346.56	93.1
Material Overhead		7.44	2	7.44	2
Resource	LRMR01	0.5	0.13	0.5	0.13
	LRMR02	0.5	0.13	0.5	0.13
	LRMR05	1.25	0.34	1.25	0.34
	LRPR01	0.5	0.13	0.5	0.13
	LRPR02	0.5	0.13	0.5	0.13
	LRPR05	1.25	0.34	1.25	0.34
	RT-Amp	2.12	0.57	2.12	0.57
	RT-Mon	1.96	0.53	1.96	0.53
		9.4702	2.54	9.4702	2.54
Overhead	Equip/Tool	0.1	0.03	0.1	0.03
	Facility	0.1	0.03	0.1	0.03
		0.00006	0	0.00006	0
Total Variable Cost		372.25026		372.25026	
Fixed Cost	ElecFixedOvh	2400	100		
Total Fixed Cost		2400			

The Contribution Margin graph shows the fixed COGM allocated to the product which is used for analyzing this product in relationship to the organization and category of items.

The Break-Even Point graph is used to analyze the production point of balance

between making either a profit or a loss. The break-even point is achieved when the generated profits match the total costs accumulated. This graph appears when you are viewing a plan using fixed costs.

4. Select the item and use the Zoom In tool (or double-click left mouse button) to access the Plan Cost Structure Details worksheet. See: Viewing Item Plan Cost Structure Details, page 4-12

5. You can select the following functions in the In-Memory Cost Management ribbon:

   - Calculate Gross Profit to run a required background process for viewing the Gross Profit Analyzer dashboard, see: Background Processes, page 2-14

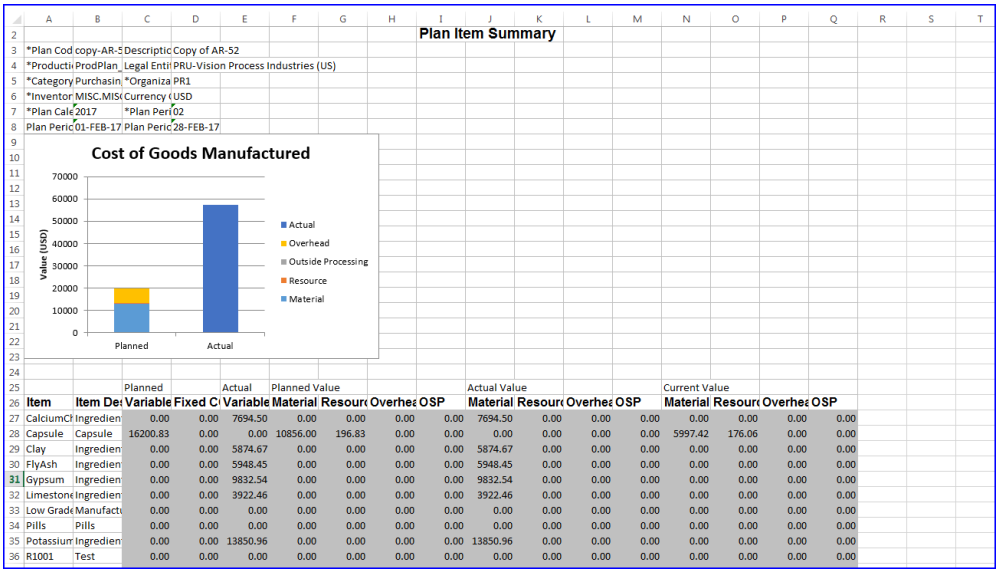
   - Launch Gross Profit Analyzer to display the dashboard after running the required background process and view the impact of the simulation just created on COGS and margins, see: Viewing an Overview of Gross Profits, page 6-4

To view plan item summary information for Process products:

1. Navigate to the Plan Item Summary worksheet for a particular item.

   The following information appears in the worksheet heading:

   - Plan Code
   - Description
   - Production Plan
   - Legal Entity
   - Category Set
   - Organization Code
   - Inventory Category
   - Currency Code
   - Plan Calendar
   - Plan Period
   - Plan Period Start and End Date



Plan Item Summary

*Plan Cod	copy-AR-5	Descriptic	Copy of AR-52																
*Producti	ProdPlan_	Legal Entit	PRU-Vision Process Industries (US)																
*Category	Purchasin	*Organiza	PR1																
*Inventor	MISC.MIS(	Currency (	USD																
*Plan Cale	2017	*Plan Peri	02																
Plan Perio	01-FEB-17	Plan Perio	28-FEB-17																
				Planned		Actual	Planned Value					Actual Value				Current Value			
Item	Item De	Variable	Fixed C	Variable	Material	Resour	Overhea	OSP		Material	Resour	Overhea	OSP		Material	Resour	Overhea	OSP	
CalciumCl	Ingredien	0.00	0.00	7694.50	0.00	0.00	0.00	0.00		7694.50	0.00	0.00	0.00		0.00	0.00	0.00	0.00	
Capsule	Capsule	16200.83	0.00	0.00	10856.00	196.83	0.00	0.00		0.00	0.00	0.00	0.00		5997.42	176.06	0.00	0.00	
Clay	Ingredien	0.00	0.00	5874.67	0.00	0.00	0.00	0.00		5874.67	0.00	0.00	0.00		0.00	0.00	0.00	0.00	
FlyAsh	Ingredien	0.00	0.00	5948.45	0.00	0.00	0.00	0.00		5948.45	0.00	0.00	0.00		0.00	0.00	0.00	0.00	
Gypsum	Ingredien	0.00	0.00	9832.54	0.00	0.00	0.00	0.00		9832.54	0.00	0.00	0.00		0.00	0.00	0.00	0.00	
Limestone	Ingredien	0.00	0.00	3922.46	0.00	0.00	0.00	0.00		3922.46	0.00	0.00	0.00		0.00	0.00	0.00	0.00	
Low Grade	Manufact	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	
Pills	Pills	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	
Potassium	Ingredien	0.00	0.00	13850.96	0.00	0.00	0.00	0.00		13850.96	0.00	0.00	0.00		0.00	0.00	0.00	0.00	
R1001	Test	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	

In the Item listing, you can review the following information for each Item record:

- Planned Variable COGM: total cost multiplied by planned production volume
- Planned Fixed COGM: total fixed cost
- Actual Variable COGM: cost incurred to produce the item in production

  The calculation comes from work orders, material, and resources charged for the time period.

- Planned Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  planned cost multiplied by planned production

- Actual Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  actual cost incurred in production

- Current Value–For Material, Material Overhead, Resource, Overhead, Outside Processing:

  current cost multiplied by planned production

2. You can select the following functions in the In-Memory Cost Management ribbon:
   - Calculate Gross Profit to run a required background process for viewing the Gross Profit Analyzer dashboard, see: Background Processes, page 2-14
   - Launch Gross Profit Analyzer to display the dashboard after running the

required background process and view the impact of the simulation just created on COGS and margins, see: Viewing an Overview of Gross Profits, page 6-4

3. Select an item and the Zoom In tool (or double-click left mouse button) to the Plan Item Cost Details worksheet.

   This worksheet is divided into three regions for a specific item:

   - Planned Item Detail

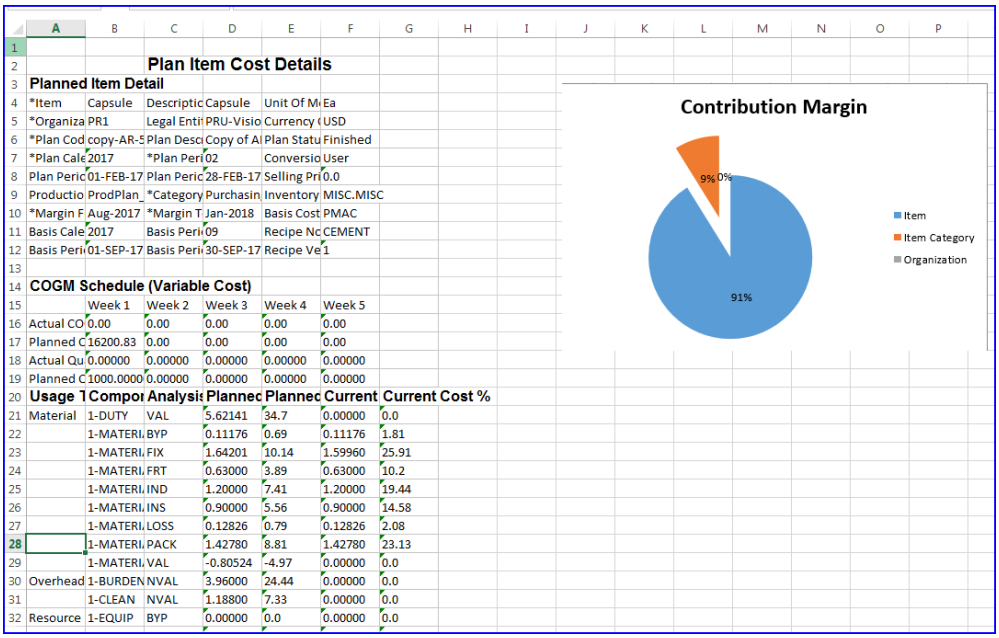
     Provides the details of the cost plan in the following fields: Item, Description, Unit of Measure, Organization Code, Legal Entity, Currency, Plan Code, Plan Description, Plan Status, Plan Calendar, Plan Period, Selling Price, Production Plan, Category, Inventory Category, Margin From and To Month, Basis Cost, Basis Calendar, Basis Period, Recipe Number, Basis Start and End Date, Recipe Version.

   - COGM Schedule

     Shows the weekly Actual and Planned Cost of Goods Manufactured and quantities.

   - Usage Type

     Provides a view of the detailed cost structure of the product for both planned and current costs. The columns in this region are: Usage Type, Component Class Code, Analysis Code, Planned Cost, Planned Cost Percentage, Current Cost, and Current Cost Percentage.



Plan Item Cost Details

Planned Item Detail

*Item	Capsule	Descriptic	Capsule	Unit Of Mi	Ea
*Organiza	PR1	Legal Enti	PRU-Visio	Currency (	USD
*Plan Cod	copy-AR-5	Plan Desc	Copy of Al	Plan Statu	Finished
*Plan Cale	2017	*Plan Peri	02	Conversio	User
Plan Perio	01-FEB-17	Plan Perio	28-FEB-17	Selling Pri	0.0
Productio	ProdPlan_	*Category	Purchasin	Inventory	MISC.MISC
*Margin F	Aug-2017	*Margin T	Jan-2018	Basis Cost	PMAC
Basis Cale	2017	Basis Peri	09	Recipe Nc	CEMENT
Basis Peri	01-SEP-17	Basis Peri	30-SEP-17	Recipe Ve	1

COGM Schedule (Variable Cost)

	Week 1	Week 2	Week 3	Week 4	Week 5
Actual CO	0.00	0.00	0.00	0.00	0.00
Planned C	16200.83	0.00	0.00	0.00	0.00
Actual Qu	0.00000	0.00000	0.00000	0.00000	0.00000
Planned C	1000.0000	0.00000	0.00000	0.00000	0.00000

Usage T	Compor	Analysis	Plannec	Plannec	Current	Current Cost %
Material	1-DUTY	VAL	5.62141	34.7	0.00000	0.0
	1-MATERI	BYP	0.11176	0.69	0.11176	1.81
	1-MATERI	FIX	1.64201	10.14	1.59960	25.91
	1-MATERI	FRT	0.63000	3.89	0.63000	10.2
	1-MATERI	IND	1.20000	7.41	1.20000	19.44
	1-MATERI	INS	0.90000	5.56	0.90000	14.58
	1-MATERI	LOSS	0.12826	0.79	0.12826	2.08
	1-MATERI	PACK	1.42780	8.81	1.42780	23.13
	1-MATERI	VAL	-0.80524	-4.97	0.00000	0.0
Overhead	1-BURDEN	NVAL	3.96000	24.44	0.00000	0.0
	1-CLEAN	NVAL	1.18800	7.33	0.00000	0.0
Resource	1-EQUIP	BYP	0.00000	0.0	0.00000	0.0

The Contribution Margin graph shows the fixed COGM allocated to the product which is used for analyzing this product in relationship to the organization and category of items.

The Break-Even Point graph is used to analyze the production point of balance between making either a profit or a loss. The break-even point is achieved when the generated profits match the total costs accumulated. This graph appears when you are viewing a plan using fixed costs.

4. Select the item and use the Zoom In tool (or double-click left mouse button) to access the Plan Cost Structure Details worksheet. See: Viewing Item Plan Cost Structure Details, page 4-12

5. Select Launch Gross Profit Analyzer to display the dashboard. See:

6. You can select the following functions in the In-Memory Cost Management ribbon:

   - Calculate Gross Profit to run a required background process for viewing the Gross Profit Analyzer dashboard, see: Background Processes, page 2-14

   - Launch Gross Profit Analyzer to display the dashboard after running the required background process and view the impact of the simulation just created on COGS and margins, see: Viewing an Overview of Gross Profits, page 6-4

Viewing Plan Item Cost Structure Details

You can query a cost plan and review the details including the bill of materials and

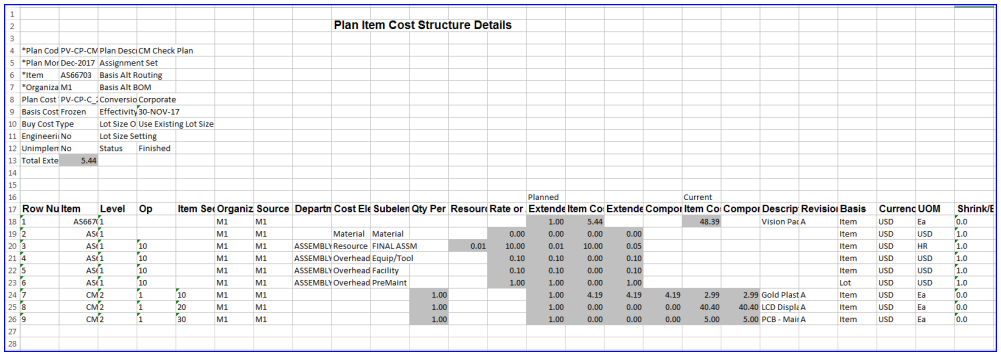
routing, and resources or rates, or recipes and steps, and resources or rates.

To view plan cost structure details for Discrete products:

1. Navigate to the Plan Cost Structure Details worksheet.

   The header section of the worksheet displays the manufacturing details of the cost plan in the following fields: Plan Code, Plan Description, Plan Month, Assignment Set, Item, Basis Alternate Routing, Organization Code, Plan Cost, Conversion Type, Basis Alternate Bill of Material, Basis Cost Type, Effectivity Date, Buy Cost Type, Lot Size Option, Engineering Bills, Lot Size Setting, Unimplemented ECO, and Status.

   The Total Extended Cost for the assembly in the cost structure details appears for these manufacturing options.



Plan Item Cost Structure Details

*Plan Cod	PV-CP-CM	Plan Desci	CM Check Plan																					
*Plan Mor	Dec-2017	Assignment Set																						
*Item	AS66703	Basis Alt Routing																						
*Organiza	M1	Basis Alt BOM																						
Plan Cost	PV-CP-C_	Conversio	Corporate																					
Basis Cost	Frozen	Effectivity	30-NOV-17																					
Buy Cost Type		Lot Size O	Use Existing Lot Size																					
Engineeri	No	Lot Size Setting																						
Unimplen	No	Status	Finished																					
Total Exte	5.44																							
														Planned				Current						
Row Nu	Item	Level	Op	Item Se	Organiz	Source	Departn	Cost Ele	Subelen	Qty Per	Resour	Rate or	Extende	Item Co	Extende	Compor	Item Co	Compor	Descrip	Revisio	Basis	Currenc	UOM	Shrink/E
1	AS667	1			M1	M1							1.00	5.44			48.39		Vision Pac	A	Item	USD	Ea	0.0
2	AS	1			M1	M1		Material	Material			0.00	0.00	0.00	0.00						Item	USD	USD	1.0
3	AS	1	10		M1	M1	ASSEMBLY	Resource	FINAL ASSM		0.01	10.00	0.01	10.00	0.05						Item	USD	HR	1.0
4	AS	1	10		M1	M1	ASSEMBLY	Overhead	Equip/Tool			0.10	0.10	0.00	0.10						Item	USD	USD	1.0
5	AS	1	10		M1	M1	ASSEMBLY	Overhead	Facility			0.10	0.10	0.00	0.10						Item	USD	USD	1.0
6	AS	1	10		M1	M1	ASSEMBLY	Overhead	PreMaint			1.00	1.00	0.00	1.00						Lot	USD	USD	1.0
7	CM	2	1	10	M1	M1				1.00			1.00	4.19	4.19	4.19	2.99	2.99	Gold Plast	A	Item	USD	Ea	0.0
8	CM	2	1	20	M1	M1				1.00			1.00	0.00	0.00	0.00	40.40	40.40	LCD Displa	A	Item	USD	Ea	0.0
9	CM	2	1	30	M1	M1				1.00			1.00	0.00	0.00	0.00	5.00	5.00	PCB - Mair	A	Item	USD	Ea	0.0

   You can review the entire bill of material and routing of this product, including all details of the costs. This data shows in the following fields:

   - Item, Level, Operation, Item Sequence, Organization, Source, Department, Cost Element, Cost Subelement, Quantity Per Assembly, Resource Usage Rate Per Assembly, and Rate or Amount

   - Planned: Extended Quantity Rate or Amount, Item Cost Resource Rate, Extended Cost, and Component Extended Cost

   - Current: Item Cost, Component Extended Cost

   - Description, Revision, Basis, Currency Code, Unit of Measure, Shrink/Basis Factor, Phantom, Make or Buy, Included in Rollup, Based on Rollup, Inventory Asset Costed, Item Type, Item Status, Lifecycle, Lifecycle Phase, and Extended Cost Flag

2. You can select the following functions in the In-Memory Cost Management ribbon:

   - When a cost plan is setup, the Launch Simulation icon in the ribbon is enabled. Select Launch Simulation to navigate to the Create Simulation worksheet, see:

Creating Cost Simulations, page 5-2

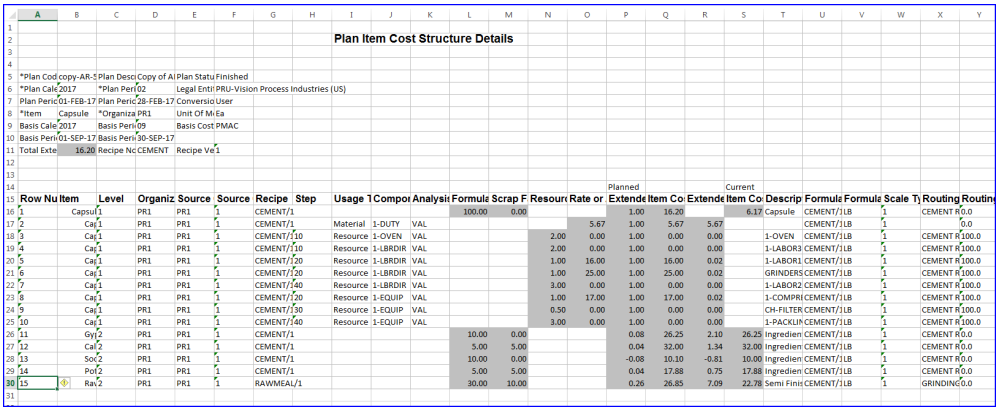
- Calculate Gross Profit to run a required background process for viewing the Gross Profit Analyzer dashboard, see: Background Processes, page 2-14

- Launch Gross Profit Analyzer to display the dashboard after running the required background process and view the impact of the simulation just created on COGS and margins, see: Viewing an Overview of Gross Profits, page 6-4

To view plan cost structure details for Process products:

1. Navigate to the Plan Cost Structure Details worksheet.

   The header section of the worksheet displays the manufacturing details of the cost plan in the following fields: Plan Code, Plan Description, Plan Status, Plan Calendar, Plan Period, Legal Entity, Conversion Type, Item, Organization Code, Unit of Measure, Basis Calendar, Basis Period, Basis Cost Type, Basis Period Start and End Dates, Total Extended Cost, Recipe Number, and Recipe Version.



Plan Item Cost Structure Details

*Plan Cod	copy-AR-1	Plan Descr	Copy of Al	Plan Statu	Finished																								
*Plan Cale	2017	*Plan Peri	02	Legal Enti	PRU-Vision Process Industries (US)																								
Plan Perio	01-FEB-17	Plan Perio	28-FEB-17	Conversio	User																								
*Item	Capsule	*Organiza	PR1	Unit Of Me	Ea																								
Basis Cale	2017	Basis Peri	09	Basis Cost	PMAC																								
Basis Peri	01-SEP-17	Basis Peri	30-SEP-17																										
Total Exte	16.20	Recipe Nc	CEMENT	Recipe Ve	1																								

																Planned			Current							
Row Nu	Item	Level	Organiz	Source	Source	Recipe	Step	Usage T	Compor	Analysis	Formula	Scrap F	Resourc	Rate or	Extende	Item Co	Extende	Item Co	Descrip	Formula	Formula	Scale Ty	Routing	Routing		
1	Capsul	1	PR1	PR1	1	CEMENT/1					100.00	0.00			1.00	16.20		6.17	Capsule	CEMENT/1	LB	1	CEMENT R	0.0		
2	Cap	1	PR1	PR1	1	CEMENT/1		Material	1-DUTY	VAL				5.67	1.00	5.67	5.67			CEMENT/1	LB	1		0.0		
3	Cap	1	PR1	PR1	1	CEMENT/10		Resource	1-OVEN	VAL			2.00	0.00	1.00	0.00	0.00		1-OVEN	CEMENT/1	LB	1	CEMENT R	100.0		
4	Cap	1	PR1	PR1	1	CEMENT/10		Resource	1-LBRDIR	VAL			2.00	0.00	1.00	0.00	0.00		1-LABOR3	CEMENT/1	LB	1	CEMENT R	100.0		
5	Cap	1	PR1	PR1	1	CEMENT/20		Resource	1-LBRDIR	VAL			1.00	16.00	1.00	16.00	0.02		1-LABOR1	CEMENT/1	LB	1	CEMENT R	100.0		
6	Cap	1	PR1	PR1	1	CEMENT/20		Resource	1-LBRDIR	VAL			1.00	25.00	1.00	25.00	0.02		GRINDER	CEMENT/1	LB	1	CEMENT R	100.0		
7	Cap	1	PR1	PR1	1	CEMENT/40		Resource	1-LBRDIR	VAL			3.00	0.00	1.00	0.00	0.00		1-LABOR2	CEMENT/1	LB	1	CEMENT R	100.0		
8	Cap	1	PR1	PR1	1	CEMENT/20		Resource	1-EQUIP	VAL			1.00	17.00	1.00	17.00	0.02		1-COMPR	CEMENT/1	LB	1	CEMENT R	100.0		
9	Cap	1	PR1	PR1	1	CEMENT/30		Resource	1-EQUIP	VAL			0.50	0.00	1.00	0.00	0.00		CH-FILTER	CEMENT/1	LB	1	CEMENT R	100.0		
10	Cap	1	PR1	PR1	1	CEMENT/40		Resource	1-EQUIP	VAL			3.00	0.00	1.00	0.00	0.00		1-PACKLIN	CEMENT/1	LB	1	CEMENT R	100.0		
11	Gyp	2	PR1	PR1	1	CEMENT/1					10.00	0.00			0.08	26.25	2.10	26.25	Ingredien	CEMENT/1	LB	1	CEMENT R	0.0		
12	Cal	2	PR1	PR1	1	CEMENT/1					5.00	5.00			0.04	32.00	1.34	32.00	Ingredien	CEMENT/1	LB	1	CEMENT R	0.0		
13	Soc	2	PR1	PR1	1	CEMENT/1					10.00	0.00			-0.08	10.10	-0.81	10.00	Ingredien	CEMENT/1	LB	1	CEMENT R	0.0		
14	Pot	2	PR1	PR1	1	CEMENT/1					5.00	5.00			0.04	17.88	0.75	17.88	Ingredien	CEMENT/1	LB	1	CEMENT R	0.0		
15	Ran	2	PR1	PR1	1	RAWMEAL/1					30.00	10.00			0.26	26.85	7.09	22.78	Semi Fini	CEMENT/1	LB	1	GRINDING	0.0		

   You can review the recipes, steps, and resources or rates for this product—including all details of the costs. This data shows in the following fields: Item, Level, Organization, Source Organization, Source Organization Percent, Recipe, Step, Usage Type, Component Class Code, Analysis Code, Formula Quantity, Scrap Factor, Resource Usage, Rate or Amount, Planned Extended Quantity or Rate or Amount, Planned Item Cost or Resource Rate, Planned Extended Cost Current Item Cost, Description, Formula, Formula Quantity or /Resource Usage Unit of Measure, Scale Type, Routing, Routing or Burden Item Quantity, Routing Unit of Measure, Operation, Step Quantity, Step Quantity Unit of Measure, Process Quantity, Process Quantity Unit of Measure, Resource Count, Activity Factor, Currency Code, and Included in Rollup.

2. You can select the following functions in the In-Memory Cost Management ribbon:

   - When a cost plan is setup, the Launch Simulation icon in the ribbon is enabled.

Select Launch Simulation to navigate to the Create Simulation worksheet, see: Creating Cost Simulations, page 5-2

- Calculate Gross Profit to run a required background process for viewing the Gross Profit Analyzer dashboard, see: Background Processes, page 2-14

- Launch Gross Profit Analyzer to display the dashboard after running the required background process and view the impact of the simulation just created on COGS and margins, see: Viewing an Overview of Gross Profits, page 6-4

Viewing Overhead Summaries and Details

You can model overhead and review granular views on the costs, and see what portion of the overhead is attributed to a particular cost center. Overheads are captured and maintained as part of various expense management and budgetary control systems–and recorded as a general ledger expense. Overhead is incurred at various levels of organization (corporate, facility, batch, item). You can identify overheads based on Organization, Cost Type, Overhead, WIP Accounting Class, and Department.

- General overhead costs (manufacturing facility rent, energy, and salaries) are usually estimated based on an analysis of prior period expenses.

- The projected fiscal period cost of each overhead is allocated to individual products by calculating an overhead burden rate for each product, adding this rate to the product's standard cost structure.

Note: This worksheet only applies to Discrete products.

To view overhead summaries:

1. Navigate to the Plan Overhead Summary worksheet.

   Summary information on the overhead costs appears in the Plan Detail section in the following fields: Plan Code, Plan Description, Alternate Bills, Alternate Routing, Engineering Bills, Unimplemented ECO, Assignment Set, and Basis Cost Type.

	A	B	C	D	E	F	G	H	I	J	K	L
1			Plan Overhead Summary									
2	Plan Detail											
3	*Plan Code	CP_YY2_OH	Plan Description	Manufactured								
4	Alternate Bills		Alternate Routing									
5	Engineering Bills	No	Unimplemented ECO	No								
6	Assignment Set		Basis Cost Type	Current								
7	Overheads											
8	Overhead	Description	Organization	Department	Basis Type	Plan Month	Unit Of Measure	Allocated Amount	Period Quantity	Planned Rate	Current Rate	Currency Code
9	MfgMgmt	PH_O1	M1	ASSEMBLY	Resource Units	Sep-2017	USD	750.00	63.33	11.84	5.00	USD
10	MfgMgmt	PH_O1	M1	ASSEMBLY	Resource Units	Oct-2017	USD	750.00	63.33	11.84	5.00	USD
11	MfgMgmt	PH_O1	M1	ASSEMBLY	Resource Units	Nov-2017	USD	750.00	63.33	11.84	5.00	USD
12	MfgMgmt	PH_O1	M1	ASSEMBLY	Resource Units	Dec-2017	USD	750.00	63.33	11.84	5.00	USD
13												
14												
15												

   In the Overheads region of the worksheet, the summary information on individual overheads appears in the following fields: Overhead, Description, Organization,

Department, Basis Type, Plan Month, Unit of Measure, Allocated Amount, Period Quantity, Planned Rate, Current Rate, Currency Code.

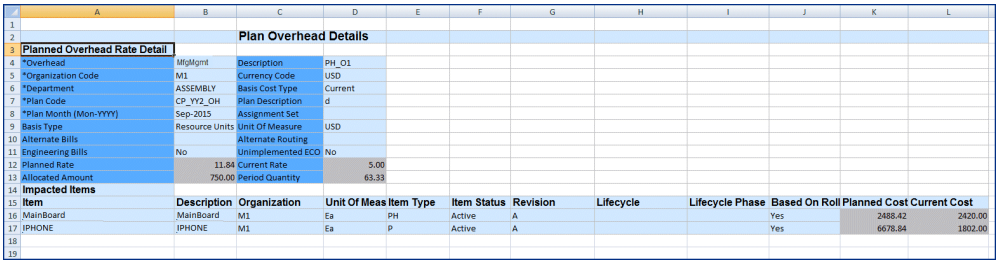
2. Select an overhead record and Zoom In to navigate to the Plan Overhead Details worksheet.

   This worksheet is divided into two sections:

   - Planned Overhead Rate Detail section contains information in the following fields: Overhead, Description, Organization Code, Currency Code, Department, Basis Cost Type, Plan Code, Plan Description, Plan Month, Assignment Set, Basis Type, Unit of Measure, Alternate Bills, Alternate Routing, Engineering Bills, Unimplemented ECO, Planned Rate, Current Rate Allocated Amount, and Period Quantity.

   - Impacted Items section shows the items impacted by the overhead in the following fields: Item, Description, Organization, Item Type, Item Status, Revision, Lifecycle, Lifecycle Phase, and Based on Rollup.

   The extended Planned Cost and Current Cost appear for each item on the worksheet.



	A	B	C	D	E	F	G	H	I	J	K	L
1												
2			Plan Overhead Details									
3	Planned Overhead Rate Detail											
4	*Overhead	MfgMgmt	Description	PH_O1								
5	*Organization Code	M1	Currency Code	USD								
6	*Department	ASSEMBLY	Basis Cost Type	Current								
7	*Plan Code	CP_YY2_OH	Plan Description	d								
8	*Plan Month (Mon-YYYY)	Sep-2015	Assignment Set									
9	Basis Type	Resource Units	Unit Of Measure	USD								
10	Alternate Bills		Alternate Routing									
11	Engineering Bills	No	Unimplemented ECO	No								
12	Planned Rate	11.84	Current Rate	5.00								
13	Allocated Amount	750.00	Period Quantity	63.33								
14	Impacted Items											
15	Item	Description	Organization	Unit Of Meas	Item Type	Item Status	Revision	Lifecycle	Lifecycle Phase	Based On Roll	Planned Cost	Current Cost
16	MainBoard	MainBoard	M1	Ea	PH	Active	A			Yes	2488.42	2420.00
17	IPHONE	IPHONE	M1	Ea	P	Active	A			Yes	6678.84	1802.00
18												
19												

Viewing Resource Summaries and Details

Cost Planning provides features to consolidate all the related resource rates. You can model resources and review granular views on the costs, and see what portion of the resources are attributed to a particular cost center. Resources are incurred at various levels

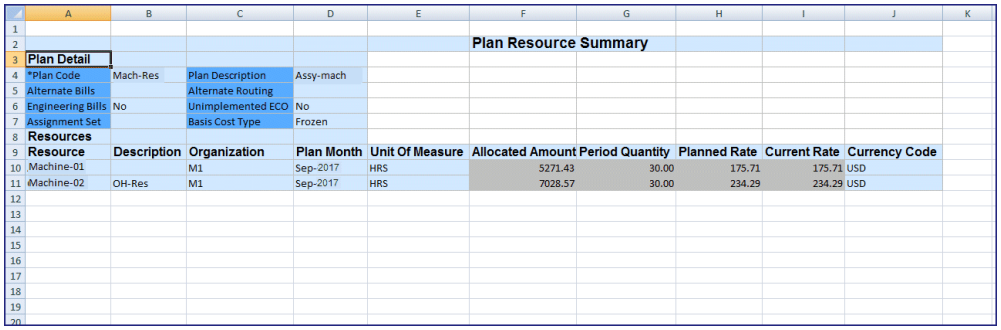
To view plan resource summary information for the Discrete application:

1. Navigate to the Plan Resource Summary worksheet.

   The worksheet is divided into two sections:

   - Plan Detail section contains information in the following fields: Plan Code, Plan Description, Alternate Bills, Alternate Routing, Engineering Bills, Unimplemented ECO, Assignment Set, and Basis Cost Type.

- Resources section is a listing of the resources for this plan code and shows information in the following fields: Resource, Description, Organization, Plan Month, Unit of Measure, Allocated Amount, Period Quantity, Planned Rate, Current Rate, and Currency Code.



					Plan Resource Summary					
Plan Detail										
*Plan Code	Mach-Res	Plan Description	Assy-mach							
Alternate Bills		Alternate Routing								
Engineering Bills	No	Unimplemented ECO	No							
Assignment Set		Basis Cost Type	Frozen							
Resources										
Resource	Description	Organization	Plan Month	Unit Of Measure	Allocated Amount	Period Quantity	Planned Rate	Current Rate	Currency Code	
Machine-01		M1	Sep-2017	HRS	5271.43	30.00	175.71	175.71	USD	
Machine-02	OH-Res	M1	Sep-2017	HRS	7028.57	30.00	234.29	234.29	USD	

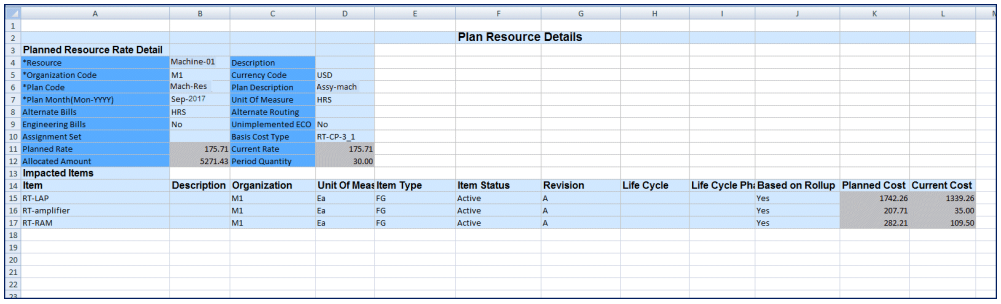
2. Select a resource record and Zoom In (or double-click left mouse button) to navigate to the Plan Resource Details worksheet.

   This worksheet is divided into two sections:

   - Planned Resource Rate Detail section contains information in the following fields: Resource, Description, Organization Code, Currency Code, Plan Code, Plan Description, Plan Month, Unit of Measure, Alternate Bills, Alternate Routing, Engineering Bills, Unimplemented ECO, Assignment Set, Basis Cost Type, Planned Rate, Current Rate Allocated Amount, and Period Quantity.

   - Impacted Items section shows the items impacted by the resource in the following fields: Item, Description, Organization, Item Type, Item Status, Revision, Lifecycle, Lifecycle Phase, and Based on Rollup.

     The extended Planned Cost and Current Cost appears for each item on the worksheet.



					Plan Resource Details						
Planned Resource Rate Detail											
*Resource	Machine-01	Description									
*Organization Code	M1	Currency Code	USD								
*Plan Code	Mach-Res	Plan Description	Assy-mach								
*Plan Month(Mon-YYYY)	Sep-2017	Unit Of Measure	HRS								
Alternate Bills	HRS	Alternate Routing									
Engineering Bills	No	Unimplemented ECO	No								
Assignment Set		Basis Cost Type	RT-CP-3_1								
Planned Rate	175.71	Current Rate	175.71								
Allocated Amount	5271.43	Period Quantity	30.00								
Impacted Items											
Item	Description	Organization	Unit Of Meas	Item Type	Item Status	Revision	Life Cycle	Life Cycle Phi	Based on Rollup	Planned Cost	Current Cost
RT-LAP		M1	Ea	FG	Active	A			Yes	1742.26	1339.26
RT-amplifier		M1	Ea	FG	Active	A			Yes	207.71	35.00
RT-RAM		M1	Ea	FG	Active	A			Yes	282.21	109.50

3. Select an item and Zoom In (or double-click left mouse button) to access the Plan Item Cost Details worksheet. see: Plan Item Summary and Details, page 4-6

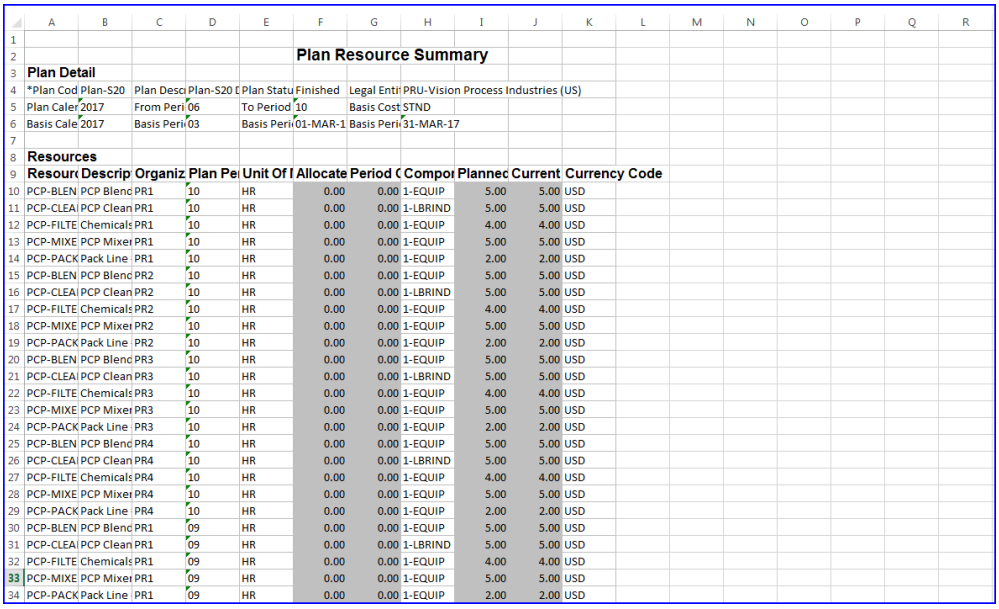
To view plan resource summary information for the Process application:

1. Navigate to the Plan Resource Summary worksheet choosing the Process application

   The worksheet is divided into two sections:

   - Plan Detail section contains information in the following fields: Plan Code, Plan Description, Plan Status, Legal Entity, Plan Calendar, From and To Period, Basis Cost Type, Basis Calendar, Basis Period, and Period Start and End Date.

   - Resources section is a listing of the resources for this plan code and shows information in the following fields: Resource, Description, Organization, Plan Period, Unit of Measure, Allocated Amount, Period Quantity, Component Class Code, Planned Rate, Current Rate, and Currency Code.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2						Plan Resource Summary												
3	Plan Detail																	
4	*Plan Cod	Plan-S20	Plan Desc	Plan-S20 D	Plan Statu	Finished	Legal Enti	PRU-Vision Process Industries (US)										
5	Plan Caler	2017	From Peri	06	To Period	10	Basis Cost	STND										
6	Basis Cale	2017	Basis Peri	03	Basis Peri	01-MAR-1	Basis Peri	31-MAR-17										
7																		
8	Resources																	
9	Resourc	Descrip	Organiz	Plan Pe	Unit Of I	Allocate	Period Q	Compor	Planned	Current	Currency Code							
10	PCP-BLEN	PCP Blend	PR1	10	HR	0.00	0.00	1-EQUIP	5.00	5.00	USD							
11	PCP-CLEA	PCP Clean	PR1	10	HR	0.00	0.00	1-LBRIND	5.00	5.00	USD							
12	PCP-FILTE	Chemicals	PR1	10	HR	0.00	0.00	1-EQUIP	4.00	4.00	USD							
13	PCP-MIXE	PCP Mixer	PR1	10	HR	0.00	0.00	1-EQUIP	5.00	5.00	USD							
14	PCP-PACK	Pack Line	PR1	10	HR	0.00	0.00	1-EQUIP	2.00	2.00	USD							
15	PCP-BLEN	PCP Blend	PR2	10	HR	0.00	0.00	1-EQUIP	5.00	5.00	USD							
16	PCP-CLEA	PCP Clean	PR2	10	HR	0.00	0.00	1-LBRIND	5.00	5.00	USD							
17	PCP-FILTE	Chemicals	PR2	10	HR	0.00	0.00	1-EQUIP	4.00	4.00	USD							
18	PCP-MIXE	PCP Mixer	PR2	10	HR	0.00	0.00	1-EQUIP	5.00	5.00	USD							
19	PCP-PACK	Pack Line	PR2	10	HR	0.00	0.00	1-EQUIP	2.00	2.00	USD							
20	PCP-BLEN	PCP Blend	PR3	10	HR	0.00	0.00	1-EQUIP	5.00	5.00	USD							
21	PCP-CLEA	PCP Clean	PR3	10	HR	0.00	0.00	1-LBRIND	5.00	5.00	USD							
22	PCP-FILTE	Chemicals	PR3	10	HR	0.00	0.00	1-EQUIP	4.00	4.00	USD							
23	PCP-MIXE	PCP Mixer	PR3	10	HR	0.00	0.00	1-EQUIP	5.00	5.00	USD							
24	PCP-PACK	Pack Line	PR3	10	HR	0.00	0.00	1-EQUIP	2.00	2.00	USD							
25	PCP-BLEN	PCP Blend	PR4	10	HR	0.00	0.00	1-EQUIP	5.00	5.00	USD							
26	PCP-CLEA	PCP Clean	PR4	10	HR	0.00	0.00	1-LBRIND	5.00	5.00	USD							
27	PCP-FILTE	Chemicals	PR4	10	HR	0.00	0.00	1-EQUIP	4.00	4.00	USD							
28	PCP-MIXE	PCP Mixer	PR4	10	HR	0.00	0.00	1-EQUIP	5.00	5.00	USD							
29	PCP-PACK	Pack Line	PR4	10	HR	0.00	0.00	1-EQUIP	2.00	2.00	USD							
30	PCP-BLEN	PCP Blend	PR1	09	HR	0.00	0.00	1-EQUIP	5.00	5.00	USD							
31	PCP-CLEA	PCP Clean	PR1	09	HR	0.00	0.00	1-LBRIND	5.00	5.00	USD							
32	PCP-FILTE	Chemicals	PR1	09	HR	0.00	0.00	1-EQUIP	4.00	4.00	USD							
33	PCP-MIXE	PCP Mixer	PR1	09	HR	0.00	0.00	1-EQUIP	5.00	5.00	USD							
34	PCP-PACK	Pack Line	PR1	09	HR	0.00	0.00	1-EQUIP	2.00	2.00	USD							

2. Select a resource record and Zoom In (or double-click left mouse button) to navigate to the Plan Resource Details worksheet.

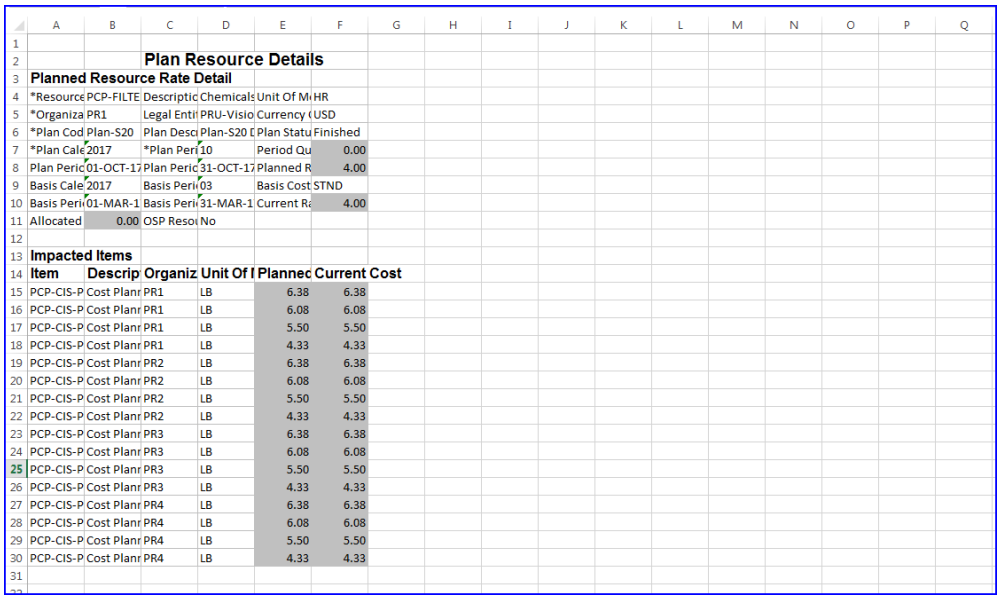
   This worksheet is divided into two sections:

   - Planned Resource Rate Detail section contains information in the following fields: Resource, Description, Organization, Unit of Measure, Legal Entity, Currency Code, Plan code, Plan Description, Plan Status, Plan Calendar, Plan Period, Period Quantity, Plan Period Start and End Date, Planned Rate, Basis Calendar, Basis Period, Basis Cost Type, Basis Period Start and End Date, Current Rate, Allocated Amount, and Outside Processing Resource.

   - Impacted Items section shows the items impacted by the resource in the

following fields: Item, Description, Organization, and Unit of Measure.

The extended Planned Cost and Current Cost appears for each item on the worksheet.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1																	
2			**Plan Resource Details**														
3	**Planned Resource Rate Detail**																
4	*Resource	PCP-FILTE	Descriptio	Chemicals	Unit Of M	HR											
5	*Organiza	PR1	Legal Enti	PRU-Visio	Currency (	USD											
6	*Plan Cod	Plan-S20	Plan Descr	Plan-S20 [	Plan Statu	Finished											
7	*Plan Cale	2017	*Plan Peri	10	Period Qu	0.00											
8	Plan Perio	01-OCT-17	Plan Perio	31-OCT-17	Planned R	4.00											
9	Basis Cale	2017	Basis Peri	03	Basis Cost	STND											
10	Basis Peri	01-MAR-1	Basis Peri	31-MAR-1	Current Ra	4.00											
11	Allocated	0.00	OSP Reso	No													
12																	
13	**Impacted Items**																
14	**Item**	**Descrip**	**Organiz**	**Unit Of I**	**Plannec**	**Current Cost**											
15	PCP-CIS-P	Cost Plan	PR1	LB	6.38	6.38											
16	PCP-CIS-P	Cost Plan	PR1	LB	6.08	6.08											
17	PCP-CIS-P	Cost Plan	PR1	LB	5.50	5.50											
18	PCP-CIS-P	Cost Plan	PR1	LB	4.33	4.33											
19	PCP-CIS-P	Cost Plan	PR2	LB	6.38	6.38											
20	PCP-CIS-P	Cost Plan	PR2	LB	6.08	6.08											
21	PCP-CIS-P	Cost Plan	PR2	LB	5.50	5.50											
22	PCP-CIS-P	Cost Plan	PR2	LB	4.33	4.33											
23	PCP-CIS-P	Cost Plan	PR3	LB	6.38	6.38											
24	PCP-CIS-P	Cost Plan	PR3	LB	6.08	6.08											
25	PCP-CIS-P	Cost Plan	PR3	LB	5.50	5.50											
26	PCP-CIS-P	Cost Plan	PR3	LB	4.33	4.33											
27	PCP-CIS-P	Cost Plan	PR4	LB	6.38	6.38											
28	PCP-CIS-P	Cost Plan	PR4	LB	6.08	6.08											
29	PCP-CIS-P	Cost Plan	PR4	LB	5.50	5.50											
30	PCP-CIS-P	Cost Plan	PR4	LB	4.33	4.33											
31																	

3. Select an item and Zoom In (or double-click left mouse button) to access the Plan Item Cost Details worksheet. see: Plan Item Summary and Details, page 4-6

5

Cost Simulations

Overview of Cost Impact Simulations

The In-Memory Cost Management Cloud Service Cost Impact Simulation tool provides a method to analyze the impact of cost variations in items, resources, overheads, and recipes in your enterprise. Simulated cost is rolled up cost based on the new cost entered. The Cost Impact Simulation worksheet lets you:

- Validate, create, and refresh data dynamically to create simulations of cost rollups using analysis capabilities from Oracle Smart View.
- Search based on context in the spreadsheet for cost elements.

You can specify the new cost and review all impacted assemblies and subassemblies—viewing the current on hand, work in process, and in transit values compared with the simulated value. Oracle Smart View uses data changes you input and executes one of several PL/SQL procedures depending on the simulation stage. These stages include: validating, creating, or updating a simulation.

After creating a simulation, you can see a summary view of assembly level cost data and an exploded detail view of indented cost data. The detail page enables you to review the indented cost structure. New cost changes and usage rates can be made to material, material overhead, resources, overhead, outside processing, and resubmitted in the simulation program.

You can also view data on Oracle Analytics Cloud Service dashboard after creating the simulation. The ability to export or print the output is available from the View Logs dialog box in the Background Processes page.

> **Note:** When launching the Oracle Analytics Cloud Service pages from the Cost Impact Simulator, a user needs to be set up for both the Cost Simulator and the Profit Analyzer roles. See: Application Roles, page 2-2

Related Topics

Connecting to Data Sources, page 2-13

Using the Member Selector, page 2-12

Creating Cost Simulations, page 5-2

Viewing Cost Simulation Summaries and Details, page 5-8

Modifying Cost Simulation Results, page 5-16

Creating Cost Simulations

The Cost Impact Simulation tool uses Microsoft Excel and Oracle Smart View for Office to investigate the data contained in your cost structures to create simulations. Results can be analyzed in summary and detail pages:

- View Summary page shows the simulated and current cost of the impacted assemblies and subassemblies.
- View Detail page shows the indented cost structure of a particular impacted assembly and subassembly for the simulation.

Use the Member Selector to find records or enter text in your search. You then refresh the data entry, enter simulated costs, and submit the changes for the simulated rollup.

> **Note:** Older simulations created can be viewed by query in the View Summary page.

Value Searching Methods for Simulations

When searching for values for cost simulations—you can either enter search criteria and select Refresh to update the column values, or enter values in the required columns:

- When entering search criteria in the required fields, select Refresh to display the search results, and then change the values in the Simulated Rate or Amount columns. The system copies the existing cost records from the basis cost type and updates the row with the Simulated Rate or Amount. This method is used when you choose to update an existing cost of the entity with a specific value.
- When entering values in the required columns, select Simulate without choosing Refresh. The system copies all the cost records for the components from the basis cost type and then inserts one or more records with of the values you entered. This method is used when you choose to add a new cost to the cost of the entity.

In both methods, the system calculates a simulation cost value with the new cost you supply.

To enter cost parameters in the Cost Impact Simulation tool:

1. Navigate to the Cost Simulation worksheet by first selecting Discrete or Process.

   Note: In the In-Memory Cost Management Cloud Service product, Smart View always opens in a new active Excel worksheet.

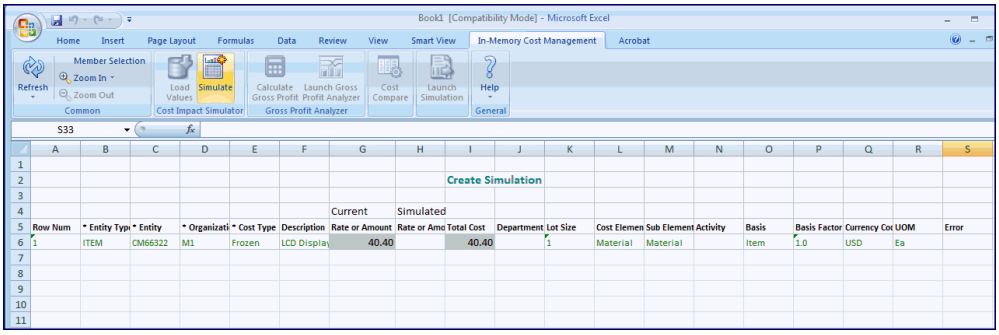
2. If you need to establish or change a connection to your data, select the Smart View Panel, see: Connecting to Data Sources, page 2-13

3. Enter search parameters by entering values, or partial values and wild card characters in the required parameter columns.

   - Entity Type:
     - Discrete environments: ITEM, RESOURCE, or OVERHEAD
     - Process environments: ITEM OR RESOURCE
   - Entity: Values for the Entity Type selected.
   - Legal Entity: For Process Manufacturing environments, incorporated business that can contain several organization cost groups.
   - Organization: A business unit such as a plant, warehouse, division, department.
   - Cost Type: For example - Standard, Average, Frozen, or any value created in your organization.

4. You can filter your search by looking for values:

   - Discrete environments: Description, Department, Cost Element, Subelement.
   - Process environments: Organization, Calendar, or Period.



5. To select multiple values, choose Member Selection.

   The Member Selection dialog box appears for selecting from a large list of specific column type values, see: Using the Member Selector, page 2-12

6. Depending on the search method selected, you will choose either Refresh or Simulate, see: Value Searching Methods for Simulations, page 5-2

7. If you choose Refresh, the corresponding data for the parameters selected appears.

   Note: The Refresh function displays only user defined or defaulted costs for a particular entity.

   The associated data displays in the rows of the worksheet.

Parameters	Discrete Industries Values	Process Industries Values
Entity Type	ITEM, RESOURCE, or OVERHEAD	ITEM or RESOURCE
Entity	Part number or name of the item, resource, or overhead entity type selected	Part number or name of the item or resource entity type selected
Legal Entity	Not applicable	Corporation, partnership for a legal construct
Cost Type	Standard, ACTUAL, or frozen	Same as Discrete
Organization	Business unit such as a plant, warehouse, division, department	Same as Discrete

Parameters	Discrete Industries Values	Process Industries Values
Calendar	Not applicable	Costing calendars define an unlimited number of costing periods.
Period	Not applicable	Calendar periods, each period is assigned a period status to indicate costing activity.
Rate or Amount	• Current—for the cost type selected • Simulated—this field is blank. You enter a value when creating a simulation.	Same as Discrete
Description	Item, resource, or overhead description or name	Item or resource description or name
Usage Type	Not applicable	Indicates if the cost type is for general or lab use.
Component Class Code	Not applicable	Identifies the cost component class associated to each item cost record.
Analysis Code	Not applicable	Codes used to group component costs from multiple cost component class types
Total Cost	Total item cost in the selection	Same as Discrete
Department	An area within your organization that consists of people, machines, or suppliers	Not applicable
Lot Size	Size of a specific set of an item identified by a number	Not applicable

Parameters	Discrete Industries Values	Process Industries Values
Cost Element	A classification for the cost of an item	Not applicable
Cost Subelement	Individual element accounts	Not applicable
Activity	Not applicable	Used for planning and calculating resource costs and includes tasks performed in a production batch.
Basis	Type determining how overhead is calculated such as Item or Lot	Not applicable
Basis Factor	Amount or quantity the rate or amount is multiplied by to calculate the unit cost of the subelement	Not applicable
Currency Code	Functional currency of the ledger associated to the legal entity	Same as Discrete
Unit of Measure	Primary unit of measure	Same as Discrete
Error	If there are errors, detailed text related to the simulation error appears in this column.	Same as Discrete

8. Select Load Values to populate the Quantity, Current, Simulated values with data for the following values:

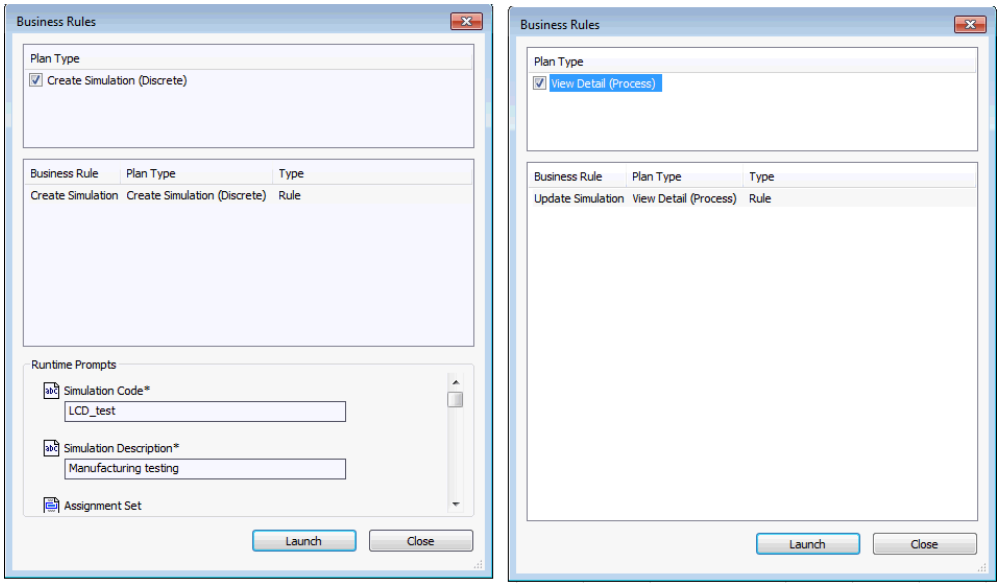
   - On hand
   - WIP
   - In Transit

   The basis cost type for these values associated with the simulation is also loaded in the corresponding cell.

To launch a cost simulation:

1. After you have searched for, or entered data in the Cost Simulation worksheet, enter cost changes in the Simulated Rate or Amount column.

2. Select Simulate. The Calculation Script dialog box appears for entering parameter values.



3. Enter required values in the Simulation Code and Simulation Description prompts.

   The Simulation code can be an alphanumeric value less than or equal to 10 characters.

4. Optionally for Discrete cost simulations, you have the option to select the following runtime prompts:

   - Assignment Set: A group of sourcing rules for items whose replenishment they control.
   - Buy Cost Type: If an assignment set is specified, costs are summed into this level of material cost.
   - Conversion Type
   - Effective Date
   - Unimplemented ECOs: Indicate whether to include unimplemented engineering change orders.
   - Alternate Bill

- Alternate Routing
- Engineering Bills
- Lot Size Option
- Lot Size Setting
- Include Configs with Closed Orders
- Config's Order Start Date

5. Select Launch to create the simulation.
   - If the simulation is successful, a success message appears. The results appear in the View Summary page after a successful generation when you close Calculation Script dialog box.
   - If the simulation is unsuccessful, an error message appears. You must resubmit and launch your data again to create a simulation.

   In the Errors column, a line level detail error appears when simulation ends in error. Errors are caused when one of the required search parameters does not have a value. An informational message appears if there are no results from your selected search parameters.

Related Topics

Viewing Cost Simulation Summaries and Details, page 5-8

Modifying Cost Simulation Results, page 5-16

Viewing Cost Simulation Summaries and Details

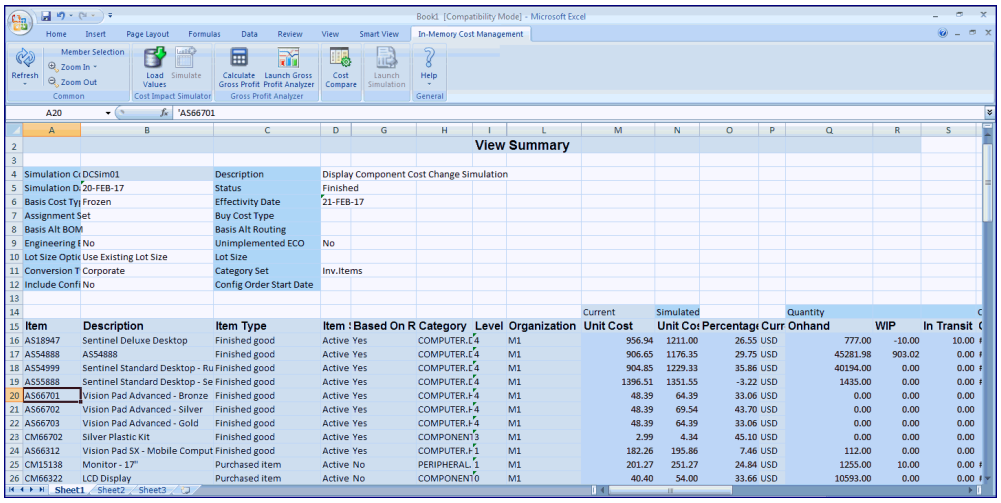
The View Summary page shows the finished goods unit cost summary information; you can review the simulated and current cost of the impacted assemblies and subassemblies. The View Detail page enables you to review the indented cost structure of a particular impacted assembly and subassembly for the simulation.

To view cost simulation summaries:

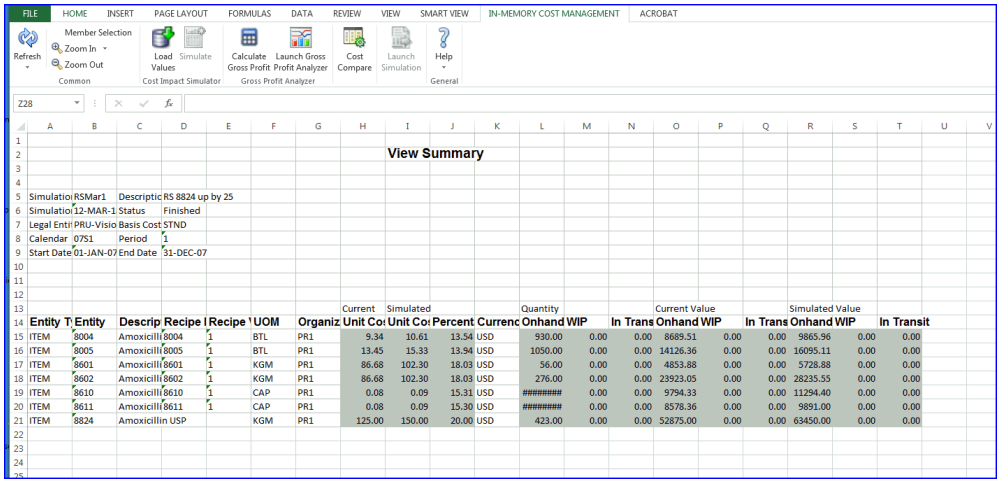
1. Navigate to the View Summary page.

   The Summary page layout shows the finished goods assembly costs in a summary format. Two types of unit costs appear for comparison: current cost and simulated cost.

Discrete Industries



Process Industries



Note: This worksheet is view-only. You cannot modify any data in the summary layout.

The information appears in the following columns:

Discrete	Process
Item	Entity

Discrete	Process
Item Type	Entity Type
Description	Description
Item Status	Not applicable
Lifecycle	Not applicable
Lifecycle Phase	Not applicable
Not applicable	Recipe Number
Not applicable	Recipe Version
Organization	Organization
Based on Rollup	Not applicable
Category	Not applicable
Level	Not applicable
Revision	Not applicable
Unit of Measure	Unit of Measure
Current and Simulated Unit Cost	Current and Simulated Unit Cost
Percentage Cost Change---If the current cost is 0, then this value cannot be mathematically calculated and a blank cell will appear in the spreadsheet.	Same as Discrete
Currency Code	Not applicable
Quantity: On Hand, WIP, Intransit	Quantity: On Hand, WIP, Intransit
Current Value: On Hand, WIP, Intransit	Current Value: On Hand, WIP, Intransit
Simulated Value: On Hand, WIP, Intransit	Simulated Value: On Hand, WIP, Intransit

2. You can select the following functions in the In-Memory Cost Management ribbon:

    - Member Selection to choose a previous simulation to display on the spreadsheet.

    - Zoom In to navigate to the View Detail page, and Zoom Out to return to the View Summary page.

    - Calculate Gross Profit to run a required background process for viewing the Gross Profit Analyzer dashboard, see: Background Processes, page 2-14

    - Launch Gross Profit Analyzer to display the dashboard after running the required background process and view the impact of the simulation just created on COGS and margins, see: Overview of Analyzing Gross Profits, page 6-1

    - Cost Compare to navigate to the Cost Comparison page for selected items in the current simulation. This will launch the cost comparison of the item where the cursor is placed between the simulation and the basis cost type. See: Searching, and Viewing Costs for Comparisons, page 7-1

To view cost simulation details:

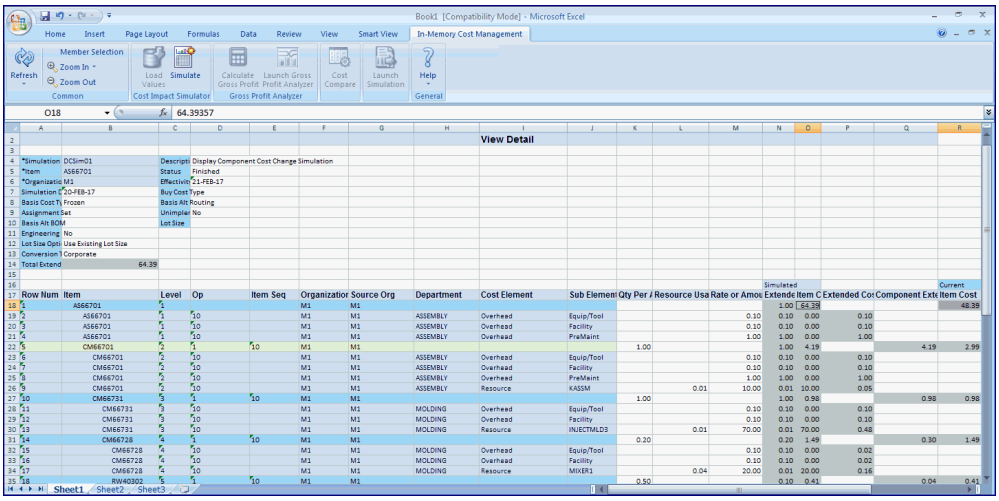
1. Navigate to the View Detail page. You can:

    - Select various component level details of the selected assembly and Zoom In to see details of the components.

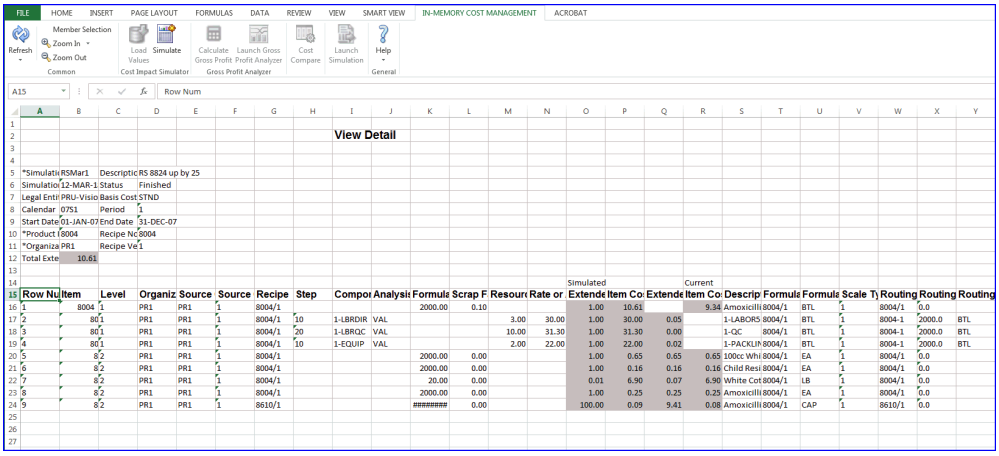
    - View the indented cost structure of the assembly you selected for Zoom In.

    - Zoom Out from the top assembly to navigate back to the View Summary page.

Discrete Industries



Process Industries



Information displays in the following columns:

Discrete	Process
Item	Same as Discrete
Level: Bill of material level	Same as Discrete
Operation sequence number	Not applicable

Discrete	Process
Organization	Same as Discrete
Source Organization	Same as Discrete
Not applicable	Source Organization Percentage
Department	Not applicable
Cost Element	Not applicable
Not applicable	Recipe: Information includes the sequencing of ingredients and processing instructions
Subelement: Cost subelement or resource name	Not applicable
Not applicable	Step: Operations or stages in the manufacturing cycle
Qty Per Assembly: Bill of material component quantity per assembly	Not applicable
Not applicable	Component Class Code: Identifies the cost component to be applied to the percentage overhead
Resource Usage Rate Per Assembly	Not applicable
Not applicable	Analysis Code: Codes used to group component costs from multiple cost component class types, providing a more granular tracking of costs.
Rate or Amount: Resource or Overhead rate or amount	Same as Discrete
Not applicable	Formula Quantity
Not applicable	Scrap Factor

Discrete	Process
Not applicable	Resource Usage: Equipment or labor used in production multiplied by charges.
Simulated values	Same as Discrete
Current Item Cost	Same as Discrete
Revision	Not applicable
Not applicable	Description
Basis	Not applicable
Not applicable	Formula: Statement of ingredient requirements and planned product yield
Currency Code	Same as Discrete
Not applicable	Formula Quantity/Resource Usage Unit of Measure
UOM: Unit of Measure	Not applicable
Not applicable	Scale Type: The proportional or disproportional increase or decrease of product, byproduct, or ingredient quantities in a formula or batch.
Shrink Basis Factor	Not applicable
Not applicable	Routing: A sequenced set of operations to perform to complete a production batch.
Not applicable	Routing Quantity
Phantom	Not applicable
Make or Buy	Not applicable
Not applicable	Routing Unit of Measure

Discrete	Process
Included in Rollup	Same as Discrete
Based on Rollup	Not applicable
Extended Quantity or Rate/Amount	Not applicable
Not applicable	Operation
Inventory Asset Costed.	Not applicable
Not applicable	Step Quantity
Not applicable	Step Quantity Unit of Measure
Not applicable	Process Quantity
Not applicable	Process Quantity Unit of Measure
Not applicable	Resource Count
Not applicable	Activity Factor
Error: A detailed line level error message appears if you update a simulation and the program does not process.	Same as Discrete

2. To create a new simulation for particular components, resource usage rates, and user defined cost of an item or resource rates; change the value and select Simulate.

   See: Modifying Cost Simulation Results, page 5-16

To display a previously created simulation:

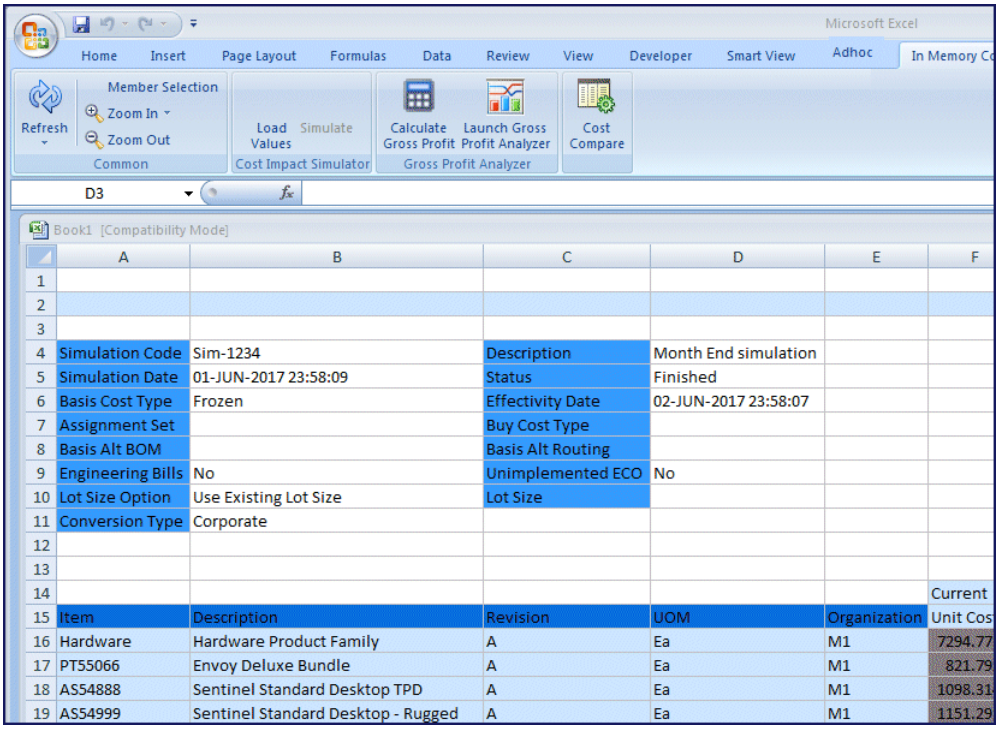
1. Navigate to the View Summary page.
2. In the Simulation Code field for the simulation just created, enter the value of a previous simulation.

   You can use Member Selection to search for values of previous simulations using the following values:

   - Simulation Code

- Simulation by Date
- Simulation by Description
- Simulation by User

See: Using the Member Selector, page 2-12



	A	B	C	D	E	F
1						
2						
3						
4	Simulation Code	Sim-1234	Description	Month End simulation		
5	Simulation Date	01-JUN-2017 23:58:09	Status	Finished		
6	Basis Cost Type	Frozen	Effectivity Date	02-JUN-2017 23:58:07		
7	Assignment Set		Buy Cost Type			
8	Basis Alt BOM		Basis Alt Routing			
9	Engineering Bills	No	Unimplemented ECO	No		
10	Lot Size Option	Use Existing Lot Size	Lot Size			
11	Conversion Type	Corporate				
12						
13						
14						Current
15	Item	Description	Revision	UOM	Organization	Unit Cos
16	Hardware	Hardware Product Family	A	Ea	M1	7294.77
17	PT55066	Envoy Deluxe Bundle	A	Ea	M1	821.79
18	AS54888	Sentinel Standard Desktop TPD	A	Ea	M1	1098.31
19	AS54999	Sentinel Standard Desktop - Rugged	A	Ea	M1	1151.29

3. Select Load Values.

   This populates the current values of the Inventory, WIP and In Transit for the impacted items in the basis cost type; and also populates the corresponding values for the simulation. You can then compare the values side by side.

Modifying Cost Simulation Results

You can test and update simulations from the results displaying on the View Detail page by modifying cost values and running the Simulation Calculation script again. The Update Simulation program does the following:

- Creates a new simulation based on the new values entered.
- Enables you to Zoom Out from the top parent assembly to see the updated simulated cost of all assemblies in the summary layout.

Any simulation code can be removed using Purge Simulation background process, see:

Background Processes, page 2-14

To modify cost simulation details:

1. On the View Detail page, for either the Discrete or Process application, select the costs you want to change.

   You can update the quantity, rate or amount, and unit cost for the following entities as shown in the following table:

Entity	Qty/Rate or Amount	Unit Cost
Component	Yes	No
Resource	Yes	Yes
Overhead	No	Yes
Outside processing (OSP)	Yes	Yes
Material	No	Yes
Material Overhead (for Discrete only)	No	Yes

2. Select Simulate to display the Update Simulation dialog box.
3. Choose Launch.
4. After the simulation successfully processes, choose Close.

   The View Detail page refreshes with values based on the new modified values entered.

Related Topics

Creating Cost Simulations, page 5-2

Viewing Cost Simulation Summaries and Details, page 5-8

6

Profit Analysis

Overview of Analyzing Gross Profits

Oracle Analytics Cloud Service technology provides graphical dashboards displaying actual versus simulated cost of goods sold (COGS) and gross margins originating from variations in costs. These dashboards enable you to visualize and quickly analyze costs occurring across the supply chain. When cost changes occur, you can investigate deviations, and then take corrective action. You can view detail panes on the dashboards to examine actual and simulated data on:

- Cost of goods sold and gross margins on shipped, unshipped orders, and planned orders
- Sales orders shipped
- Planned orders
- Top items sold, planned, and shipped
- Orders by product and customer
- Hierarchy by product and customer

You can display data in either a graph or table view, and export data to PDF, Microsoft Excel, and other documents.

There are two Oracle Analytics Cloud Service dashboards to analyze cost of goods sold and gross profit data. Both dashboards show the actual compared to simulated costs created in the Cost Impact Simulator:

- Gross Profit Analysis: This dashboard can be accessed directly from the Cloud Service menu. This dashboard shows the impact of profitability in three areas: Overview, Product, and Customer.

- Impact on Gross Profit: You can navigate from the Cost Impact Simulator to analyze the downstream impacts of changes to costs, and also from the Cloud Service menu. This dashboard shows the cost impacts of previous simulations.

The currency code shown in the Gross Profit Analysis detail reports is the primary currency of the general ledger shown in the report.

For internal drop shipment sales orders—the Gross Profit Analyzer dashboard and detail reports for the shipped order section displays data for the shipping, selling, and intermediate operating unit. The customer details in the dashboard and detail reports for the shipping and intermediate operating units is shown as the external customer creating the sales order in the selling operating unit.

> **Note:** When launching the Oracle Analytics Cloud Service pages from the Cost Impact Simulator, a user needs to be set up for both the Cost Simulator and the Profit Analyzer roles. See: Application Roles, page 2-2.

Related Topics

Generating Data for Profit Analysis, page 6-2

Selecting Search Criteria, page 6-3

Viewing an Overview of Gross Profits, page 6-4

Viewing Gross Profit Products, page 6-9

Viewing Gross Profit Customers, page 6-14

Viewing Impacts on Gross Profit, page 6-18

Generating Data for Profit Analysis

Several programs are used to collect cost information and generate data to display on Profit Analysis dashboards:

- Create Product Category Hierarchy: Creates the setup data used for Gross Profit Analysis dashboard. It considers the item category flexfields as defined in the on premise version of In-Memory Cost Management, and creates the hierarchy for the categories.

- Create Territory Hierarchy: Creates the setup data to be used for the Gross Profit Analysis dashboard. It considers the territory flexfield as defined in the on premise version of In-Memory Cost Management, and creates the hierarchy for the territory.

- Create Time Dimension: Creates the setup data for the Gross Profit Analysis dashboard. It uses general ledger periods and creates the time dimension required

for reporting in Profit Analysis.

- Incremental Margin Load: Several of the margin load programs are used to collect the data for actual costs; and incrementally load data from Accounts Receivables, Accounts Payables, Inventory, Order Management, and Cost Management.
- Simulation Margin Load: Uses the actual cost information to create the simulated comparison data.

Related Topics

Configuration, page 2-6

Background Processes, page 2-14

Selecting Search Criteria

The Profit Analysis dashboards open defaulting to:

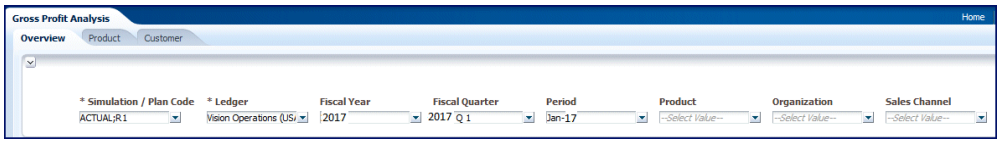
- Gross Profit Analysis defaults to cost type ACTUAL.
- Impact on Gross Profit, defaults to a cost type you have access.

You can change the cost type to other types have access to, along with other parameters during your analysis.

> **Note:** The cost type ACTUAL is a seeded cost type for profit analysis which has the actual values only. The values in ACTUAL are used to create the simulated values. The dashboard also enables you to select the cost type ACTUAL to look at the actual values.

To select search criteria in the Profit Analyzer dashboards:

1. Navigate to the Gross Profit Analysis or Impact on Gross Profit dashboards.



2. Select values in the Search panel to change the information appearing on the dashboard. You can select multiple search parameters for each value. Choices are:
   - Simulation/Plan Type
   - Organization Ledger

- Fiscal Year (displays only on Gross Profit Analysis dashboard)
- Fiscal Quarter (displays only on Gross Profit Analysis dashboard)
- Period
- Product
- Sales Organization
- Sales Channel
- Sales Representative
- Customer

3. Select Apply to reformat the information and change the values appearing in the panels.

   Data does not display if the specified criteria does not have information for the selected value combination.

Viewing an Overview of Gross Profits

The Overview region of the Gross Profit Analyzer has six panels displaying actual data compared to simulated data. These panels include:

- Profitability Summary of Margins and COGS for Sales Forecasts, Shipped Orders, and Unshipped Orders
- Gross Margin by Period
- Gross Margin by Sales Organization
- Gross Margin by Sales Representative
- Cost of Goods Sold for Planned Orders by Period
- Gross Margin for Planned Orders by Period

All panels enable you to:

- Refresh, print, export, or copy the data shown in a specific panel
- View data in either graph or table view
- Display both actual versus simulated data for the cost type selected

Some of the panels also enable you to navigate to reports showing more detail on the values appearing on the graphs and tables.

To view an overview of gross profits:

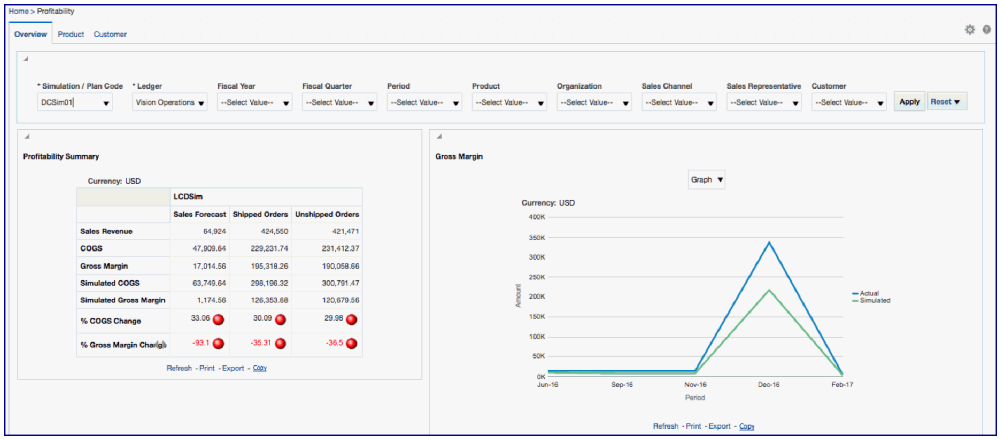
1. Navigate to the Gross Profit Analysis page, and select the Overview tabbed region.

2. You can select values in the Search panel to change variations and reformat the data appearing, see: Selecting Search Criteria, page 6-3

3. The Profitability Summary panel is a table view of orders in relationship to margin and COGS for the cost type selected. For sales forecasts, shipped, and unshipped orders you can view:

   - Sales Revenue
   - COGS and Gross Margin (both actual and simulated)
   - Percentage of Change for COGS and Gross Margin

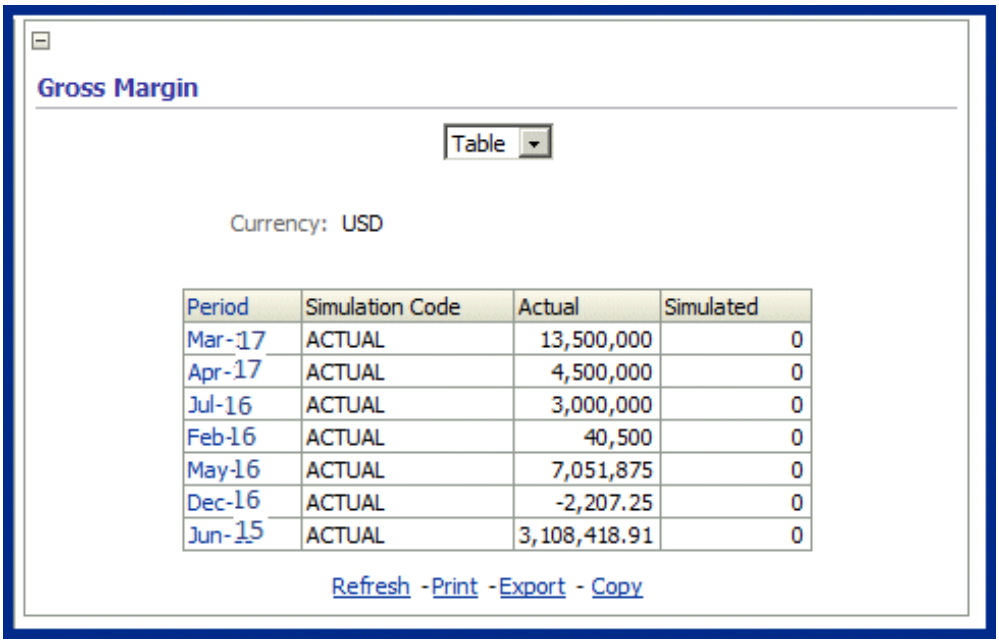
   The variation of changes appear in both a numerical and color-coded display.



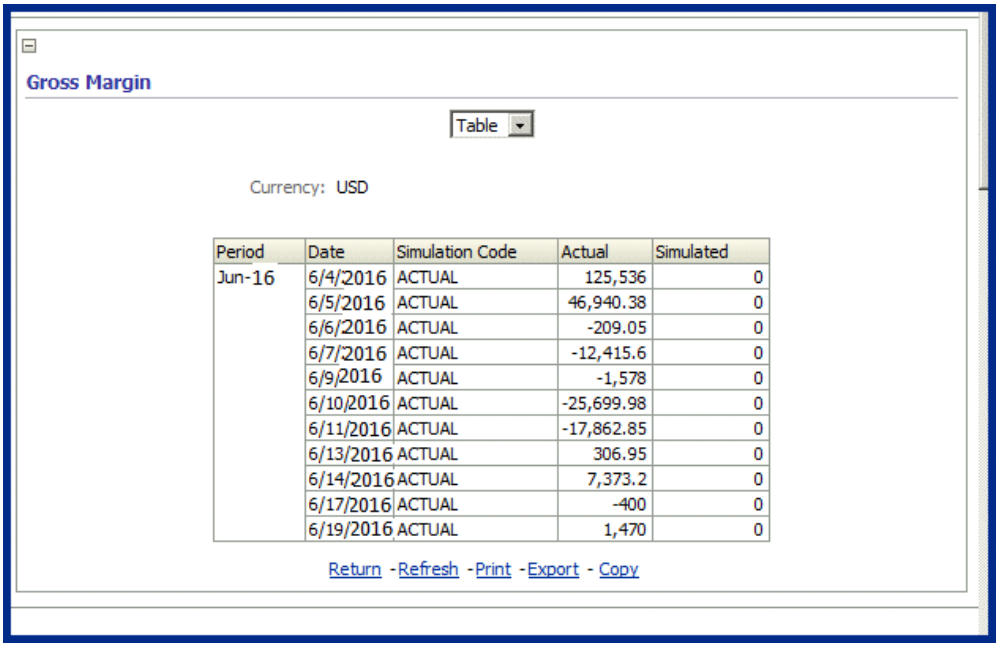
   The Gross Margin by Period panel shows the amount per period of your organization's gross margin for the selected Fiscal Period.

4. Use the drop-down box to change the display between graph or table view, and back again.

   Both views list the actual and simulated values for the fiscal periods, and other values used in your search criteria.



5. Select a particular period in the table to view daily variations of the month for the actual and simulated gross margins.

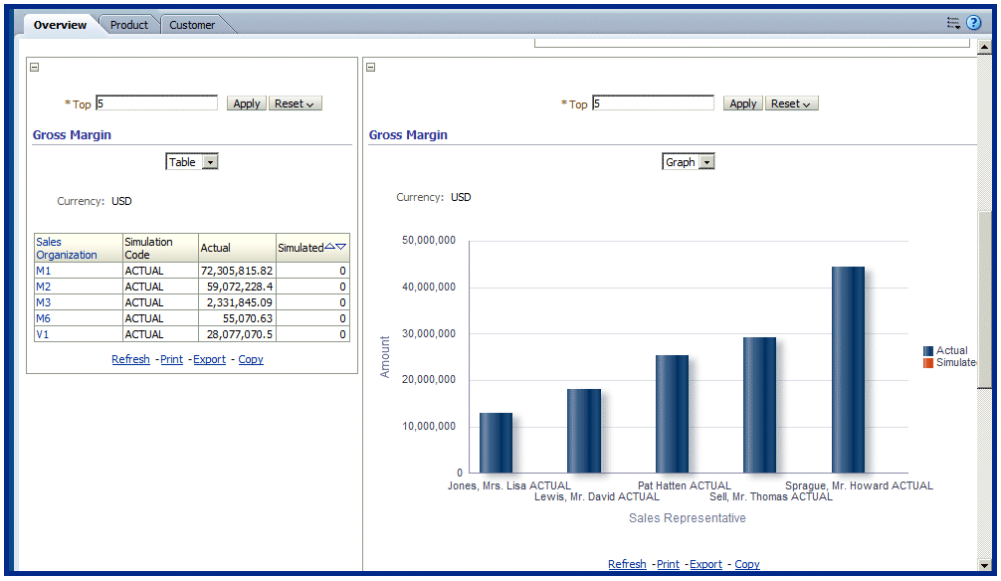


6. The following panels show an overview of profitability by sales organization and sales representative, view the following panels:

   - The Gross Margin by Sales Organization panel shows the amount of sales for

each organization selected in the search criteria.

- The Gross Margin by Sales Representative panel shows the amount of sales earned by representatives selected in the search criteria.



7. Select the drop-down menu to display the data between a table or graph view, and back again.

8. To filter results for top grossing organizations and representatives, change the value in the Top box. Select Apply to see the results.

   In the table view for the Gross Margin by Sales Organization panel, you can view individual organizations.

9. To see an overview of profitability for planned orders by period, view the following panels.

   These panels show the profitability of suggested order quantities for orders created by your planning and scheduling system:

   - The Cost of Goods Sold for Planned Orders by Period panel shows the COGS amount for orders planned per fiscal period selected in your search criteria.

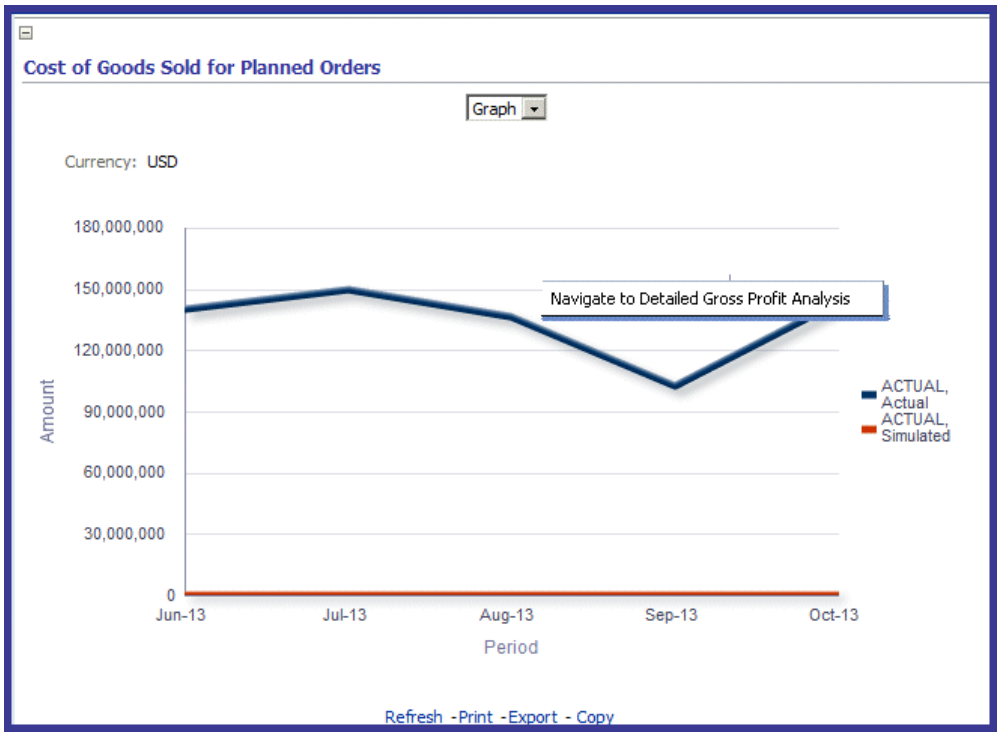
   - The Gross Margin for Planned Orders by Period panel shows the gross margin for the orders planned for the fiscal periods selected in your search criteria.

10. On the Cost of Goods Sold for Planned Orders by Period and the Gross Margin for Planned Orders by Period panels, you can navigate to detail reports by left-clicking your mouse in the following areas:

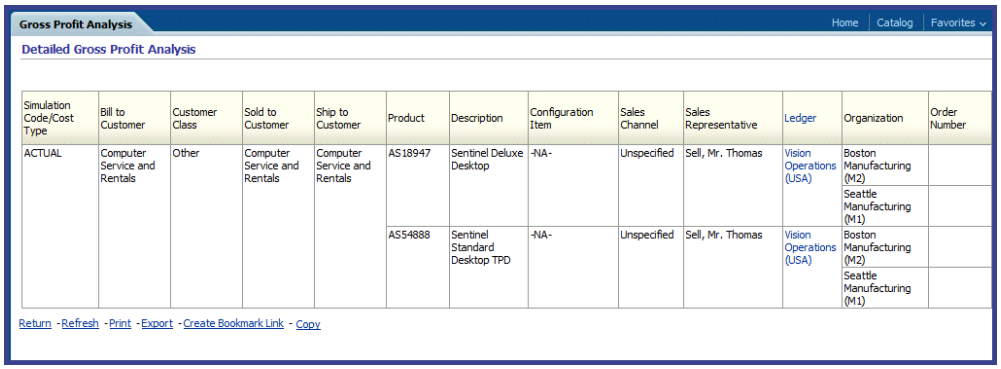
    - On the line in the graph view
    - Values in the Actual or Simulated columns in the table view

    Note: Use mouse left-click to access the reports; mouse right-click displays Oracle Analytics Cloud Service report settings and not the In-Memory Cost Management Cloud Service detail reports.

    When you choose the appropriate method for the panel display, the following link appears: Navigate to Detailed Gross Profit Analysis.



11. Select the link, and the Detailed Gross Profit Analysis report appears.



Viewing Gross Profit Products

The Product tabbed region of the Gross Profit Analyzer contains six panels showing the profitability of your organization's products including:

- Cost of Goods Sold
- Gross Margin
- Cost of Goods Sold for Unshipped Orders

- Gross Margin for Unshipped Orders
- Cost of Goods Sold for Planned Orders
- Gross Margin for Planned Orders

All panels enable you to:

- Refresh, print, export, or copy the data shown in a specific panel.
- View data in either graph or table view.
- Display both actual versus simulated data for the cost type selected.
- Navigate to reports showing more detail on the values appearing on the graphs and tables.

To view COGS and gross margins for products in the Gross Profit Analysis dashboard:

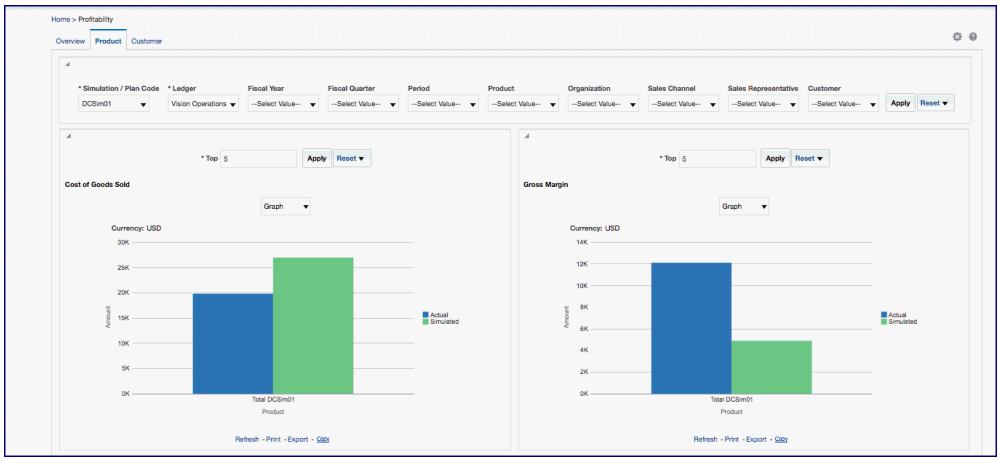
1. Navigate to the Gross Profit Analysis page, and select the Product tabbed region.

   Data displaying on the panels is for products selected according to your search criteria, see: Selecting Search Criteria, page 6-3

   The overview summary panels show profitability for shipped orders only:

   - The Cost of Goods Sold panel shows the profitability of selected products in your search criteria.
   - The Gross Margin panel shows the profitability of the difference between total revenue and the cost of goods sold of selected products in your search criteria.

2. To filter results for most profitable products, change the value in the Top box. Select Apply to see the results.



3. Use the drop-down box to change the display from a graph or a pivot table, and back again.

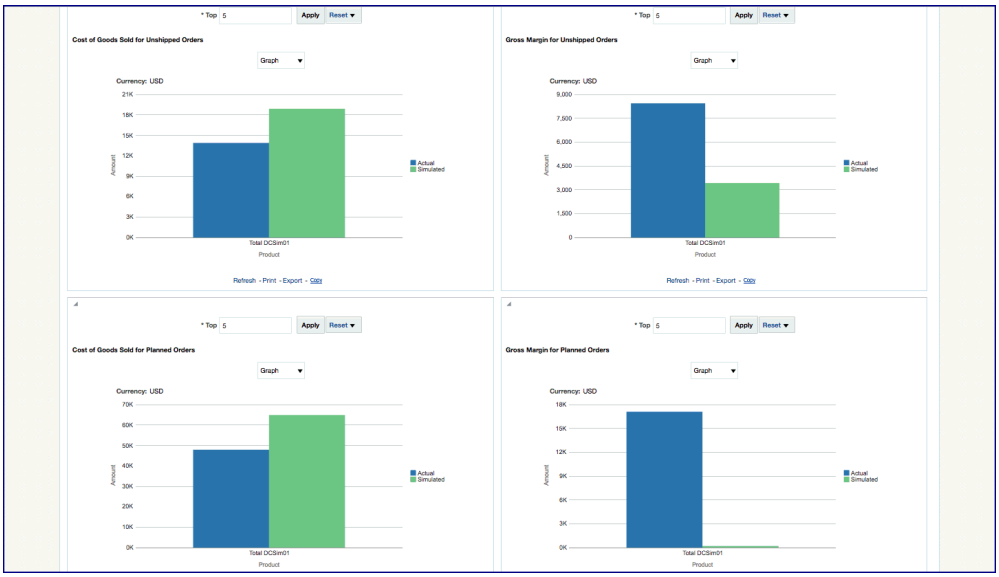
   The pivot table view shows the actual and simulated COGS or gross margin in a row for the total amount.

4. Expand the Total column to display the actual and simulated amount of the next level of the product hierarchy.

5. In the Unshipped Orders region, Gross Profit Analysis dashboard, two panels show COGS and gross margins for unshipped orders:

   - Cost of Goods Sold for Unshipped Orders shows the income of products for orders booked but not yet shipped.

   - Gross Margin for Unshipped Orders shows the difference between revenue and COGS of products for orders booked but not yet shipped.



6. To see an overview of profitability for planned orders by product, view the following panels. These panels show the profitability of suggested order quantities for orders created by your planning and scheduling system.

   - The Cost of Goods Sold for Planned Orders by Product panel shows the COGS amount for the orders planned for products selected in your search criteria.

   - The Gross Margin for Planned Orders by Product panel shows the gross margin for the orders planned for products selected in your search criteria.

To navigate to detail reports:

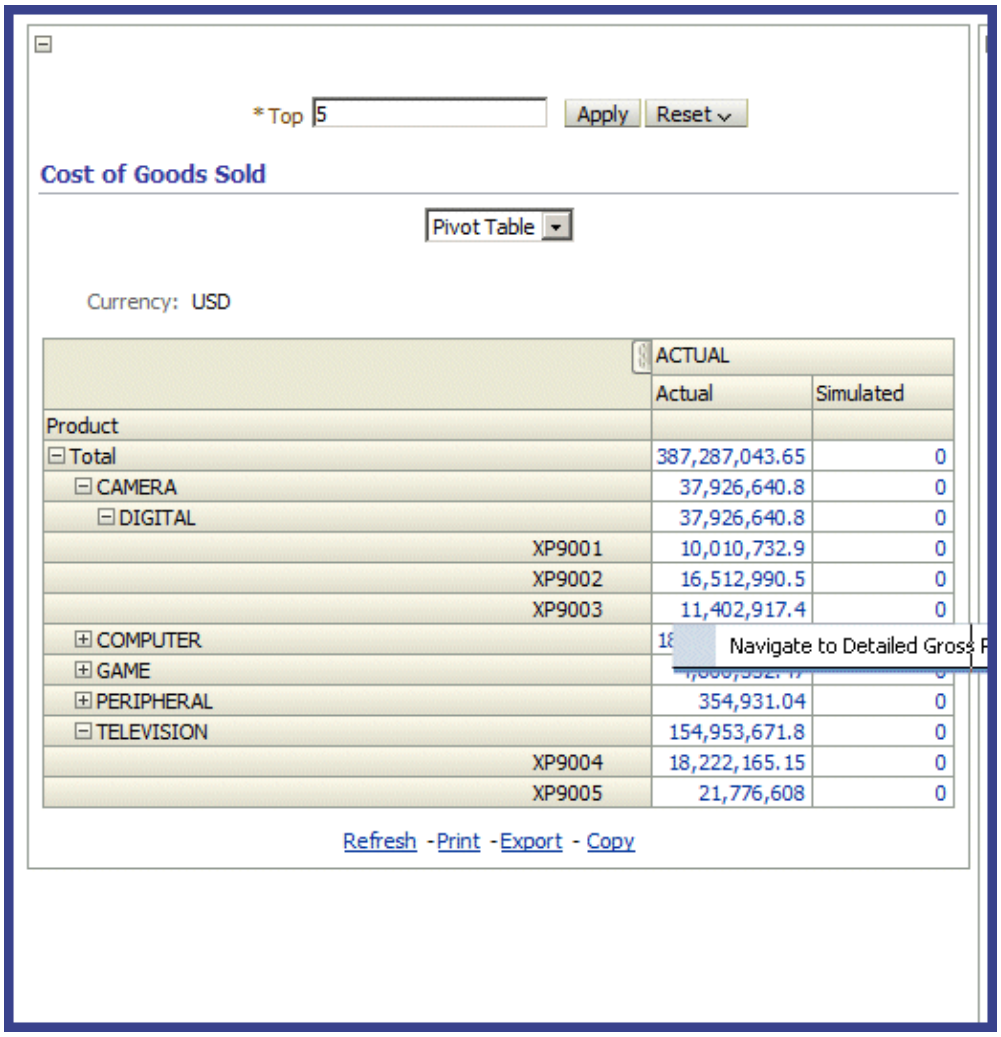
1. On any of the panels, navigate to detail reports by left-clicking your mouse in the following areas:

   - On the line in the graph view

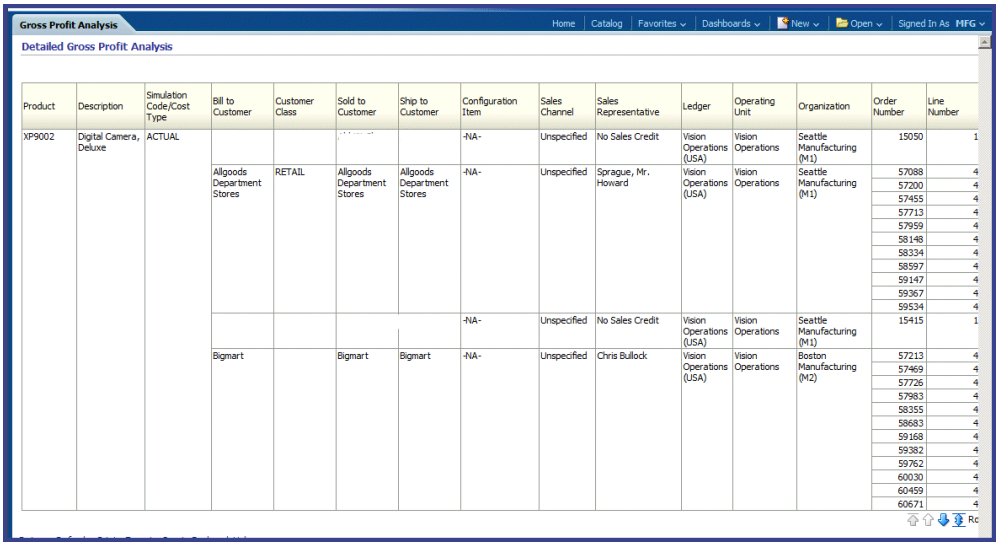
   - Values in the Actual or Simulated columns in the table view

     Note: Use mouse left-click to access the reports; mouse right-click displays Oracle Analytics Cloud Service report settings and not the In-Memory Cost Management Cloud Service detail reports.

   When you choose the appropriate method for the panel display, a link appears: Navigate to Detailed Gross Profit Analysis.



2. Select the link, and the Detailed Gross Profit Analysis report appears.



Product	Description	Simulation Code/Cost Type	Bill to Customer	Customer Class	Sold to Customer	Ship to Customer	Configuration Item	Sales Channel	Sales Representative	Ledger	Operating Unit	Organization	Order Number	Line Number
XP9002	Digital Camera, Deluxe	ACTUAL					-NA-	Unspecified	No Sales Credit	Vision Operations (USA)	Vision Operations	Seattle Manufacturing (M1)	15050	1
			Allgoods Department Stores	RETAIL	Allgoods Department Stores	Allgoods Department Stores	-NA-	Unspecified	Sprague, Mr. Howard	Vision Operations (USA)	Vision Operations	Seattle Manufacturing (M1)	57088	4
													57200	4
													57455	4
													57713	4
													57959	4
													58148	4
													58334	4
													58597	4
													59147	4
													59367	4
													59534	4
							-NA-	Unspecified	No Sales Credit	Vision Operations (USA)	Vision Operations	Seattle Manufacturing (M1)	15415	1
			Bigmart		Bigmart	Bigmart	-NA-	Unspecified	Chris Bullock	Vision Operations (USA)	Vision Operations	Boston Manufacturing (M2)	57213	4
													57469	4
													57726	4
													57983	4
													58355	4
													58683	4
													59168	4
													59382	4
													59762	4
													60030	4
													60459	4
													60671	4

Viewing Gross Profit Customers

The Customer region of the Gross Profit Analyzer has six panels displaying actual values compared to simulated data of your gross profits and COGS for your customers. These panels include:

- Cost of Goods Sold
- Gross Margin
- Cost of Goods Sold for Unplanned Unshipped Orders
- Gross Margin for Unshipped Orders
- Cost of Goods Sold for Planned Orders
- Gross Margin for Planned Orders

All panels enable you to:

- Refresh, print, export, or copy the data shown in a specific panel.
- View data in either graph or table view.
- Display both actual versus simulated data for the cost type selected.
- Navigate to reports showing more detail on the values appearing on the graphs and tables.

To view gross profits and margins for customers:

1. Navigate to the Gross Profit Analysis page, and select the Customer tabbed region.

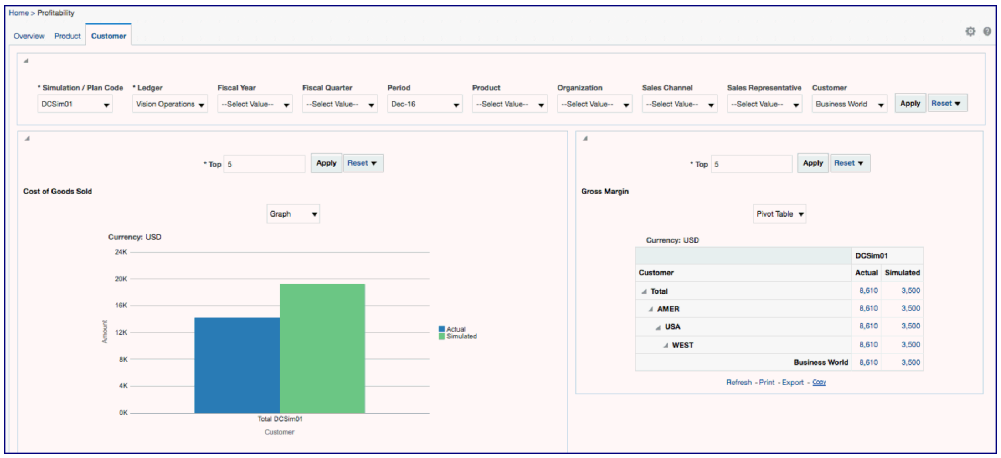
2. You can select values in the Search panel to change variations and reformat the data appearing, see: Selecting Search Criteria, page 6-3

   The overview summary panels show the profitability for shipped orders only:

   - The Cost of Goods Sold panel shows the profitability of selected customers in your search criteria.

   - The Gross Margin panel shows the profitability of the difference between total revenue and the cost of goods sold of selected customers in your search criteria.

3. To filter results for the most profitable customers, change the value in the Top box. Select Apply to see the results.



4. Use the drop-down box to change the display from a graph or a pivot table, and back again.

   The pivot table view shows the actual and simulated COGS or gross margin in a row for the total amount.

5. Expand the Total column to display the actual and simulated amount of the next level of the customer hierarchy.

6. In the Unshipped Orders region, two panels show COGS and gross margins for unshipped orders in the Gross Profit Analysis dashboard:

   - Cost of Goods Sold for Unshipped Orders shows the income per customer for orders booked but not yet shipped.

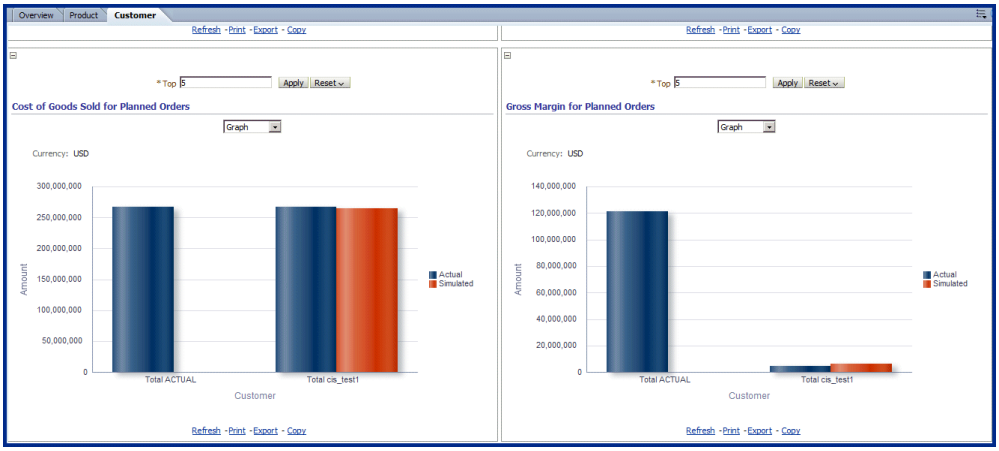
   - Gross Margin for Unshipped Orders shows the difference between revenue and

COGS per customer for orders booked but not yet shipped.

7. To see an overview of profitability for planned orders by customer, view the following panels. These panels show the profitability of suggested order quantities for orders created by your planning and scheduling system.

    - Cost of Goods Sold for Planned Orders by Customer panel shows the COGS amount for the orders planned for customers selected in your search criteria.

    - Gross Margin for Planned Orders by Customer panel shows the gross margin for the orders planned for customers selected in your search criteria.



To navigate to detail reports:

1. On any of the panels, navigate to detail reports by left-clicking your mouse in the following areas:

    - On the line in the graph view

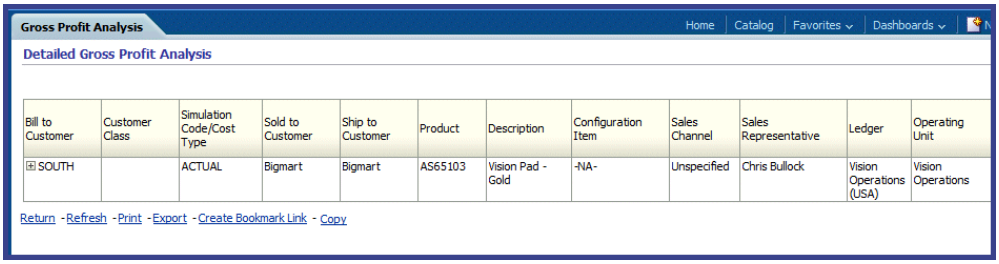
    - Values in the Actual or Simulated columns in the table view

Note: Use mouse left-click to access the reports; mouse right-click displays OACSS report settings and not the In-Memory Cost Management Cloud Service detail reports.

When you choose the appropriate method for the panel display, a link appears: Navigate to Detailed Gross Profit Analysis.

2. Select the link, and the Detailed Gross Profit Analysis report appears.

   For internal drop shipment sales orders - the Gross Profit Analyzer dashboard and detail reports for the shipped order section displays data for the shipping, selling, and intermediate operating unit. The customer details in the dashboard and detail reports for the shipping and intermediate operating units is shown as the external customer creating the sales order in the selling operating unit.



Viewing Impacts on Gross Profit

The Impact on Gross Profit dashboard shows the results of a previous simulation performed. You can change the display to other simulations by selecting a Simulation Code value in the search region. The dashboard consists of 6 panels showing:

- Cost of Goods Sold by Product
- Gross Margin by Product
- Gross Margin for Unshipped Orders by Product
- Gross Margin for Unshipped Orders by Customer
- Cost of Goods Sold for Planned Orders by Period
- Gross Margin for Planned Orders by Period

All of the panels enable you to:

- Refresh, print, export, or copy the data shown in a specific panel.
- View data in either graph or table view.
- Display both actual versus simulated data for the cost type selected.

To view impacts on gross profits:

1. Navigate to the Impact on the Gross Profit dashboard.

   The initial view defaults to a simulation in which you have access. The Simulation Code field value and any of the other search parameters can be changed in the Search panel to reformat the data appearing, see: Selecting Search Criteria, page 6-3

2. In the COGS and Gross Margin for shipped orders panels you can see the:
   - The Cost of Goods Sold by Product panel shows the profitability of selected products in your search criteria.

- The Gross Margin by Product panel shows the profitability of the difference between total revenue and the cost of goods sold of selected products in your search criteria.

See: Viewing Gross Profit Products, page 6-9

3. In the COGS and Gross Margin for unshipped orders panels:

   - The Cost of Goods Sold for Unshipped Orders shows the income of products for orders booked but not yet shipped.

   - The Gross Margin for Unshipped Orders shows the difference between revenue and COGS per customer for orders booked but not yet shipped.

   See: Viewing Gross Profit Products, page 6-9 - and Viewing Gross Profit Customers, page 6-14

4. In the COGS and Gross Margin for planned orders panels:

   - The Cost of Goods Sold for Planned Orders by Period panel shows the COGS amount for orders planned per fiscal period selected in your search criteria.

   - The Gross Margin for Planned Orders by Period panel shows the gross margin for the orders planned for the fiscal periods selected in your search criteria.

   See: Viewing an Overview of Gross Profits, page 6-4

7

Cost Comparisons

Searching and Viewing Costs for Comparisons

The Cost Comparison tool provides the ability to compare detailed indented assembly costs across different plants and organizations. Costs are presented in a side by side view. This enables you to view costed bills or recipes and associated elements, investigate differences, and take actions on costs impacting profitability. You can import simulation analysis directly into the worksheets. The Cost Comparison pages consist of two functions: searching for elements, and viewing the results.

The Cost Comparison Search function enables you to select search criteria, display the results of your search, and navigate to the results page to compare costs.

To search for items for comparison:

1. Navigate to the Cost Compare Search worksheet by either:
   - Selecting Discrete or Process in the Cost Comparison menu item
   - Navigate from the View Summary page by selecting Cost Comparison in the toolbar

     Note: In the In-Memory Cost Management Cloud Service product, Smart View always opens in a new active Excel spreadsheet.

2. If you need to establish or change a connection to your data, select the Smart View Panel, see: Connecting to Data Sources, page 2-13
3. Enter search criteria. You can:
   - Enter values, or partial values and wild card characters (%) in the parameter columns.

- Select multiple values by choosing Member Selection.

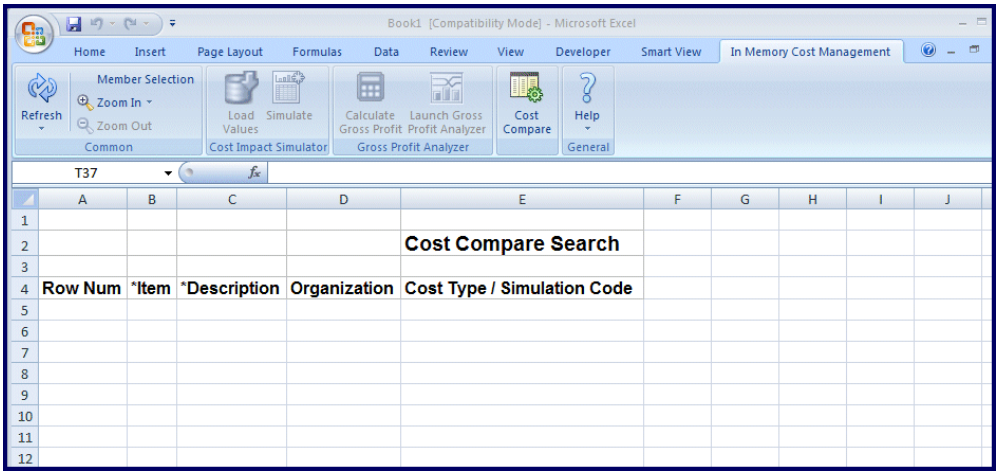
  The Member Selection dialog box appears for selecting from a large list of specific column type values. See: Using the Member Selector, page 2-12

For Discrete organization searches, enter the following:

- Item, required value
- Description, required value
- Organization
- Cost Type/Simulation Code

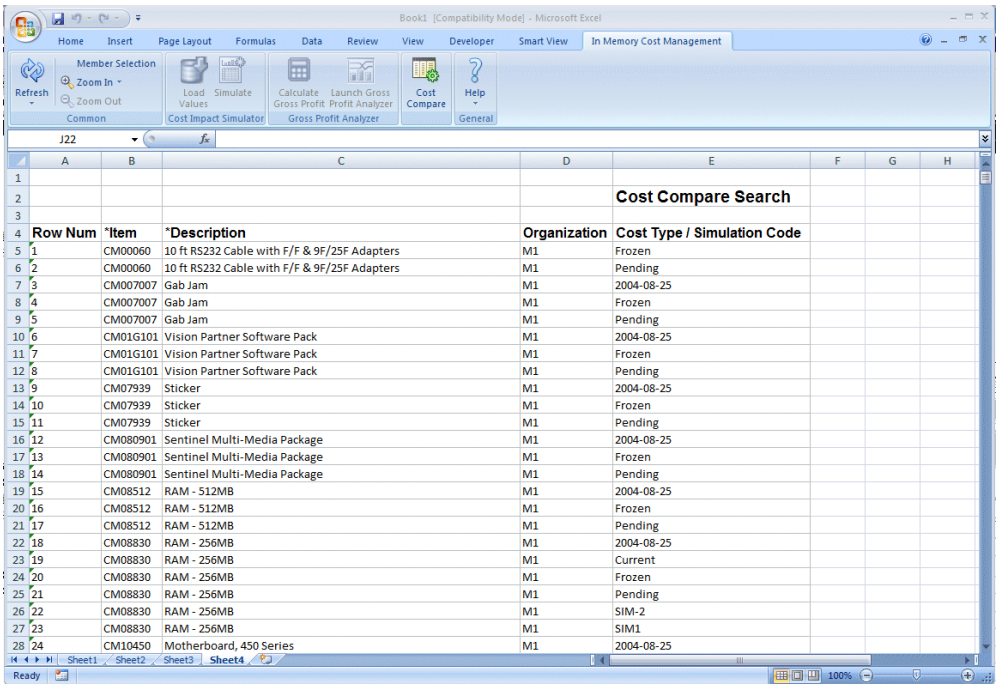
For Process organization, searches enter the following:

- Item, required value
- Description
- Legal Entity
- Organization
- Cost Type/Simulation Code
- Calendar
- Period



4. After you have entered search criteria, select Refresh.

   The data corresponding to your search criteria appears on the spreadsheet.



To view cost comparison results:

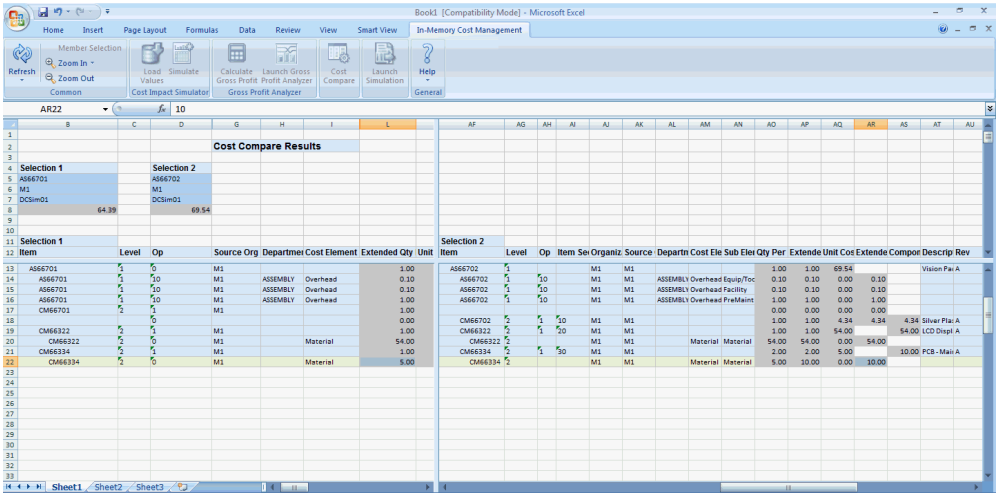
1. Navigate to the Cost Compare Search page, and enter your search criteria.

2. Select Cost Compare in the In-Memory Cost Management ribbon.

   When the results of your search appear on the worksheet, select two costed bill of materials. The results from your selected records appear on the Cost Compare Results page in a side by side view of costed bills of material:

   - If one item is selected on the View Summary page, the results appearing on the Cost Compare Results page display the comparison between the simulated and basis cost type for the item selected.

   - If two items are selected on the View Summary page, the results appearing on the Cost Compare Results page display the comparison between the simulated and basis cost type for the item selected. Results appearing on the Cost Compare Results page display comparison between two items selected for the simulation costs.



The Cost Compare Results page opens with first level of components expanded for both selections in the following fields:

Discrete	Process
Item	Item
Bill of Material Level	Level
Operation	Organization
Organization	Source Organization
Source Organization	Source Organization Percentage
Department	Recipe
Cost Element	Step
Cost Subelement	Component Class Code
Quantity per Assembly or Rate or Amount	Analysis Code
Extended Quantity Rate, or Amount	Formula Quantity
Unit Cost	Rate or Amount
Extended Cost	Extended Qty/Rate or Amount

Discrete	Process
Description	Item Cost/Resource Rate, Extended Cost, Description
Revision	Formula
Basis	Formula Qty/Resource Usage Unit of Measure
Currency Code	-
Unit of Measure	Routing
Currency.	Routing Unit of Measure
-	Operation,
-	Step Quantity
-	Step Quantity Unit of Measure
-	Process Quantity
-	Process Quantity Unit of Measure
-	Resource count
-	Activity Factor
-	Include in Rollup

3. Select the row for a specific subassembly.
4. Select Zoom in the toolbar to expand the child rows.
   - Zoom In action can be performed for all levels of the subassemblies.
   - When displaying data for two assemblies, all child rows in each assembly are shown.
   - Whenever there is a comparable line of cost between the two selected assemblies, that is, the same elemental cost at the same bill level—then the

respective cost details are displayed next to each other on a single line for comparison.

5. Select the expanded subassembly and choose Zoom Out to collapse the child rows of data.

6. Choose Zoom Out again to return to the Cost Compare Search page.

Related Topics

Oracle Smart View for Office User's Guide

A

Navigation

In-Memory Cost Management Cloud Service Navigation

The following table shows navigation paths to the functions and pages in In-Memory Cost Management Cloud Service.

Window or Page Name	Navigation Path
Analyze Cost Plan	Planning > [Discrete or Process] > Cost Plans and Allocations > Cost Plans > [select a plan]
Allocation Scopes	Planning > [Discrete or Process] > Cost Plans and Allocations > Allocation Scope
Allocation Pools	Planning > [Discrete or Process] > Cost Plans and Allocations > Allocation Pools
Allocation Rules	Planning > [Discrete or Process] > Cost Plans and Allocations > Allocations Rules
Allocation Scopes	Planning > [Discrete or Process] > Cost Plans and Allocations > Allocation Scopes
Background Process	Administration > Background Process
Configuration	Administration > Configuration
Cost Compare Search	Simulation > Cost Comparison > [Discrete or Process] View Summary > Cost Compare

Window or Page Name	Navigation Path
Cost Plans	Planning > [Discrete or Process] > Cost Plans and Allocations > Cost Plan
Create Allocation Pool	Planning > [Discrete or Process] > Cost Plans and Allocations > Allocation Pool > Allocation Pools > [Create]
Create Allocation Rule	Planning > [Discrete or Process] > Cost Plans and Allocations > Allocation Rule> Allocation Rules > [Create]
Create Allocation Scope	Planning > [Discrete or Process] > Cost Plans and Allocations > Allocation Scope> Allocation Scopes > [Create]
Create Cost Plans	Planning > [Discrete or Process] > Cost Plans and Allocations > Cost Plan > Cost Plans > [Create]
Create Simulation	Simulation > Cost Simulator > Create Cost Simulation > [Discrete or Process] Planning > Cost Plans and Allocations > Cost Plans > [select a plan] > Analyze Cost Plan > Plan Organization Summary worksheet > zoom In > View Plan Cost Structure Details worksheet >[enter change] > Launch Simulation icon
Gross Profit Analyzer	Profitability > Gross Profit Analyzer Simulation > View Cost Summary > [Launch Gross Profit Analyzer]
Impact on Gross Profit	Profitability > Impact on Gross Profit
Manage Fixed Analysis Codes	Planning > [Process] > Cost Plans and Allocations > Allocations Rule > Allocation Rules > [Edit Fixed Analysis Codes]
Manage Fixed Component Class Codes	Planning > [Process] > Cost Plans and Allocations > Allocations Rule > Allocation Rules > [Edit Fixed Component Class Codes]

Window or Page Name	Navigation Path
Manage Fixed Cost Subelements	Planning > [Discrete] > Cost Plans and Allocations > Allocations Rule > Allocation Rules > [Edit Fixed Costs]
Plan Item Cost Details	Cost Plan Analyzer > Analyze Cost Plan > Item Cost Details Planning > Cost Plans and Allocations > Cost Plans > [select a plan] > Analyze COGM > [Go] > [Select an organization and double-click] >
Plan Item Cost Structure Details	Cost Plan Analyzer > Analyze Cost Plan > Item Cost Structure Details
Plan Item Summary	Cost Plan Analyzer > Analyze Cost Plan > Item Summary Planning > Cost Plans and Allocations > Cost Plans > [select a plan] > Analyze COGM > [Go] > [Select an organization and double-click]
Plan Organization Summary	Cost Plan Analyzer > Analyze Cost Plan > Organization Summary Planning > Cost Plans and Allocations > Cost Plans > [select a plan] > Analyze COGM > [Go]
Plan Overhead Details	Cost Plan Analyzer > Analyze Cost Plan > Overhead Details
Plan Overhead Summary	Cost Plan Analyzer > Analyze Cost Plan > Overhead Summary
Plan Resource Details	Cost Plan Analyzer > Analyze Cost Plan > Resource Details
Plan Resource Summary	Cost Plan Analyzer > Analyze Cost Plan > Resource Summary
Security	Administration > Security
Update Allocation Pool	Planning > [Discrete or Process] > Cost Plans and Allocations > Allocation Pool > Allocation Pools > [Update]

Window or Page Name	Navigation Path
Update Allocation Rule	Planning > [Discrete or Process] > Cost Plans and Allocations > Allocations Rule > Allocation Rules > [Update]
Update Allocation Scope	Planning > [Discrete or Process] > Cost Plans and Allocations > Allocation Scope > Allocation Scopes > [Update]
Update Cost Plan	Planning > [Discrete or Process] > Cost Plans and Allocations > Cost Plan > Cost Plans > [select a cost plan record] > [Update] Planning > [Discrete or Process] > Cost Plans and Allocations > Cost Plans > [select a plan] > Analyze Cost Plan > [Update]
View Details	Simulation > Cost Simulator > View Cost Simulation > View Cost Details >[Discrete or Process]
View Summary	Simulation > Cost Simulator > View Cost Simulation > [Discrete or Process]

B

REST Web Services

Overview of In-Memory Cost Management Cloud Service REST Web Services

Representational State Transfer, or REST web services, provide interoperability between computer systems and the web. REST web services enable requesting systems to access and manipulate resources. There are five sets of REST web services used in In-Memory Cost Management Cloud Service including:

- Simulations
- GPA Plan Interface
- Planned Costs
- Supply/Demand Interface
- Price List Interface

The following table shows the web services included in each set and their available actions:

Set of Web Services	Web Service Name	Action Grants
Simulations	Simulations	Describe Get

Set of Web Services	Web Service Name	Action Grants
GPA Plan Interface	GPAPlanInterface	Describe Get Create Update Delete
GPA Plan Interface	GPAPlanInterfaceErrors	Describe Get
Planned Costs	PlannedCosts	Describe Get
Supply/Demand Interface	SupplyDemandInterface	Describe Get Create Update Delete
Supply/Demand Interface	SupplyDemandInterfaceErrors	Describe Get
Supply/Demand Interface	SupplyDemand	Describe Get
Price List Interface	PriceListInterface	Describe Get Create Update Delete
Price List Interface	PriceListInterfaceErrors	Describe Get

Set of Web Services	Web Service Name	Action Grants
Price List Interface	PriceList	Describe Get

Simulations

The Simulations web service set provides you with view-only (through http GET) simulation data. The simulation data includes all the data generated or related to one or more simulations. In particular, the response from this web service retrieves data in the following tables and organizes it in the hierarchy shown here:

```
CMI_SIMULATIONS
 |- CST_ITEM_COSTS (cs.simulation_cost_type_id = cic.cost_type_id)
 |   |- CST_ITEM_COST_DETAILS (item_id, org_id, cost_type_id)
 |- CST_RESOURCE_COSTS (cs.simulation_cost_type_id = crc.cost_type_id)
 |- CST_DEPARTMENT_OVERHEADS (cs.simulation_cost_type_id = cdo.cost_type_id)
 |- BOM_ALTERNATE_DESIGNATORS (simulation_code = alternate_designator_code)
 |- BOM_ALTERNATE_DESIGNATORS_TL (simulation_code = alternate_designator_code)
 |- BOM_STRUCTURES_B (simulation_code = alternate_bom_designator)
 |   |- BOM_COMPONENTS_B (structure.common_bill_sequence_id = component.bill_sequence_id)
 |- BOM_OPERATIONAL_ROUTINGS (simulation_code = alternate_routing_designator)
     |- BOM_OPERATION_SEQUENCES (bos.ROUTING_SEQUENCE_ID = bor.COMMON_ROUTING_SEQUENCE_ID)
         |- BOM_OPERATION_RESOURCES (bomres.OPERATION_SEQUENCE_ID = bos.OPERATION_SEQUENCE_ID)
```

GPA Plan Interface

The GPA Plan Interface, set provides you with a tool to populate (http POST), modify (http PUT or PATCH), delete (http DELETE), and query (http GET) data in the cmi_planned_interface interface table used in the profitability analysis module. You can also query the cmi_planned_iface_errors table to help find and correct any issues in the data loaded into the interface table.

Planned Costs

The Planned Costs web service provides you with view only plan cost data. The plan cost data includes all the data generated and related to one or more cost plans. In particular, the response from this web service retrieves data in the following tables and organizes it in the hierarchy shown here:

```
CMI_CP_PLAN_HEADERS
 |- CMI_CP_PLAN_COST_TYPES (ccph.plan_id = ccpct.plan_id)
     |- CST_COST_TYPES (ccpct.cost_type_id = cct.cost_type_id)
         |- CST_ITEM_COSTS (cct.cost_type_id = cic.cost_type_id)
         |   |- CST_ITEM_COST_DETAILS (item_id, org_id, cost_type_id)
         |- CST_RESOURCE_COSTS (cct.cost_type_id = crc.cost_type_id)
         |- CST_DEPARTMENT_OVERHEADS (cct.cost_type_id = cdo.cost_type_id)
         |- CMI_CP_PLAN_FIXED_COSTS (cct.cost_type_id = ccpfc.cost_type_id)
             |- CMI_CP_PLAN_FIXED_COST_DTL (ccpfc.header_id = ccpfcd.header_id)
```

Supply/Demand Interface

The Supply/Demand Interface web services provides you with a tool to populate, modify, delete, and query data in the supply/demand interface table used in the cost planning module. You can also query the interface errors table to help find and correct any issues in the data loaded into the interface table. After importing the data in the supply/demand interface, you can use the third web service Supply/Demand in this set, to query the data imported.

Price List Interface

The Price List Interface web services provides you with a tool to populate, modify, delete, and query data in the price list interface table used in the cost planning module. You can also query the interface errors table to help find and correct any issues in the data loaded into the interface table. After importing the data in the price list interface, you can use the third web service PriceList in this set, to query the data imported.

Related Topics

Consuming the REST Web Services, page B-4

Consuming the REST Web Services

There are many ways to consume these web services. For example, you can install a REST client extension in the web browser (such as "postman web client" in the Chrome browser, and so forth). You can create and send the http requests in the REST client to consume the listed web services:

The following are the web service URLs which perform these functions:

- Returns a list of available versions of web services:

  ```
  <host>:<port>/IMCMCSREST/rest
  ```

- Returns the information related to version v1:

  ```
  <host>:<port>/IMCMCSREST/rest/v1
  ```

- Returns a list of available web services of version v1:

  ```
  <host>:<port>/IMCMCSREST/rest/v1/describe
  ```

  For example, you will find the URL of the root resource of web service "Simulations" as:

  ```
  <host>:<port>/IMCMCSREST/rest/v1/IMCMCSREST/rest/v1/Simulations
  ```

  You will find the URL of the child resources, grandchild resources, and so forth such as:

  ```
  <host>:<port>/IMCMCSREST/rest/v1/Simulations/{id}
  /child/BomOperationalRoutingsView/{id}
  /child/BomOperationSequencesView/{id}
  /child/BomOperationResourcesView
  ```

  Describe also returns available actions and their request/response type. For example, the following JSON node associated with the resource URL following shows that this resource accepts http PATCH requests with the mentioned content-type:

  ```
  http://slce201cn14:7002/IMCMCSREST/rest/v1/GPAPlanInterface/{id}
  ```

  The acceptable http request content-type is:

  ```
  application/vnd.oracle.adf.resourceitem+json, instead of
  application/json
  ```

```
{
  "name": "update",
  "method": "PATCH",
  "requestType": [
    "application/vnd.oracle.adf.resourceitem+json"
  ],
  "responseType": [
    "application/vnd.oracle.adf.resourceitem+json",
    "application/json"
  ]
}
```

- You can add query criteria and/or other conditions to the URL. For example, to query simulation_code Atest3 of the root resource of web service "Simulations", use:

```
<host>:
<port>/IMCMCSREST/rest/v1/IMCMCSREST/rest/v1/Simulations/Atest3
```

The simulation_code is the primary key of this resource. To filter by a non-primary-key attribute, e.g., RollupId, use:

```
<host>:
<port>/IMCMCSREST/rest/v1/IMCMCSREST/rest/v1/Simulations/Atest3?
q=RollupId=1002
```

This filtering feature does not support multi-attribute queries.

By default, the response of the web service returns 5 rows. To specify the number of rows to return, use:

```
<host>:
<port>/IMCMCSREST/rest/v1/IMCMCSREST/rest/v1/Simulations/Atest3?
limit=<number_of_rows>
```

- You can also combine the two, for example., RollupId, and number of rows, as follows:

```
<host>:
<port>/IMCMCSREST/rest/v1/IMCMCSREST/rest/v1/Simulations/Atest3?
=RollupId=1002&limit=<number_of_rows>
```

- If both the data from parent resource and child resources are needed, use the following to include a particular child resource:

```
<host>:
<port>/IMCMCSREST/rest/v1/IMCMCSREST/rest/v1/Simulations/Atest3?
expand=<child_resource_name>
```

To include all child resources use:

```
<host>:
<port>/IMCMCSREST/rest/v1/IMCMCSREST/rest/v1/Simulations/Atest3?
expand=all
```

> **Note:** Expand includes the child resources only. It does not include grandchild resources etc..

The POST, PUT, PATCH requests must use content-type:

`application/vnd.oracle.adf.resourceitem+json`

The request body should be in the following format:

```
{
  "<attribute1_type_number>": <some_json_number>,
  "<atrribute2_type_varchar>": "<some_json_string>",
  "<attribute3_type_date>": "yyyy-mm-ddTHH24:mi:ss<time_zone_offset>",
  "<atrribute4_null>": <json_null>
  ......
}
```

For example:

```
{
  "CostTypeId": 1,
  "CostType": "Frozen",
  "LastUpdateDate": "2016-08-04T16:11:11-07:00",
  "Description": null
}
```

- IMCMCS REST Web Service also supports batch requests. To submit a batch request, use the following:
  - **URL**

<host>:<port>/IMCMCSREST/rest/

- **HTTP Method**

  POST

- **Content-Type**

  application/vnd.oracle.adf.batch+json

- **Payload**

```
{
    "parts": [
        {
            "id": "<unique_id_for_current_part>",
            "path": "/v1/GPAPlanInterface/[<interface_id_for_update_replace_delete>]",
            "operation": "<create,update,replace,delete>",
            "payload": {
                "<attribute1_type_number>": <some_json_number>,
                "<atrribute2_type_varchar>": "<some_json_string>",
                "<attribute3_type_date>": "yyyy-mm-ddTHH24:mi:ss<time_zone_offset>",
                "<atrribute4_null>": <json_null>
                ......
            }
        },
        {
            <entries for next part>
        },
        ......
    ]
}
```

For example:

```
{
    "parts": [
        {
            "id": "part1",
            "path": "/v1/GPAPlanInterface/1001",
            "operation": "update",
            "payload": {
                "OrganizationId": 204,
                "InventoryItemId": 45,
                "ProcessPhase": null
            }
        },

        {
            "id": "part5",
            "path": "/v1/GPAPlanInterface/",
            "operation": "create",
            "payload": {
                "InterfaceId": 100,
                "PlanId": 100,
                "OrganizationId": 229,
                "InventoryItemId": 63
            }
        },
```

```
{
    "id": "part2",
    "path": "/v1/GPAPlanInterface/3",
    "operation": "delete"
},
{
    "id": "part4",
    "path": "/v1/GPAPlanInterface/6",
    "operation": "replace",
    "payload": {
        "InterfaceId": 6,
        "PlanId": 1,
        "OrganizationId": 207,
        "Uom": "KG"
    }
},
```

```
        {
            "id": "part3",
            "path": "/v1/GPAPlanInterface/5",
            "operation": "delete"
        },
        {
            "id": "part6",
            "path": "/v1/GPAPlanInterface/1",
            "operation": "delete"
        }
    ]
}
```

C

Installation

Installing In-Memory Cost Management Cloud Service

This appendix outlines the procedures for installing, setting up, testing, and debugging Oracle Smart View for Microsoft Office and the In-Memory Cost Management Cloud Service (IMCMCS) Extension for Smart View. This includes:

- Installing Oracle Smart View for Microsoft Office, see: Installation, page C-1
- Installing the In-Memory Cost Management Cloud Service Smart View ribbon, see: Extension for Smart View, page C-2
- Verifying and testing the software component installation, see: Verification, page C-2
- Setting up timeout parameters, see: Setting Up Timeout Parameters, page C-4
- Resolving security conflicts, see: Security Setup, page C-7
- Error resolution, see: Error Resolution, page C-10

Setting Up Oracle In-Memory Cost Management Cloud Service

Security features of Microsoft Windows or Microsoft Excel may interfere with the installation of Smart View and In-Memory Cost Management Cloud Service Extensions. Perform the security setup steps to ensure that these components are installed properly. See: Security Setup, page C-7

To set up Oracle In-Memory Cost Management Cloud Service:

Installation

1. Install the Oracle Smart View for Microsoft Office; this is a Microsoft Excel plugin.

- Download this software from Oracle Technology Network: http://www.oracle.com/technetwork/middleware/epm/downloads/index.html
- The minimum version required is 11.1.2.5.

2. Install the In-Memory Cost Management Cloud Service Extension for Smart View.

   This is a ribbon for the Microsoft Excel menu bar: IMCM Ribbon.msi

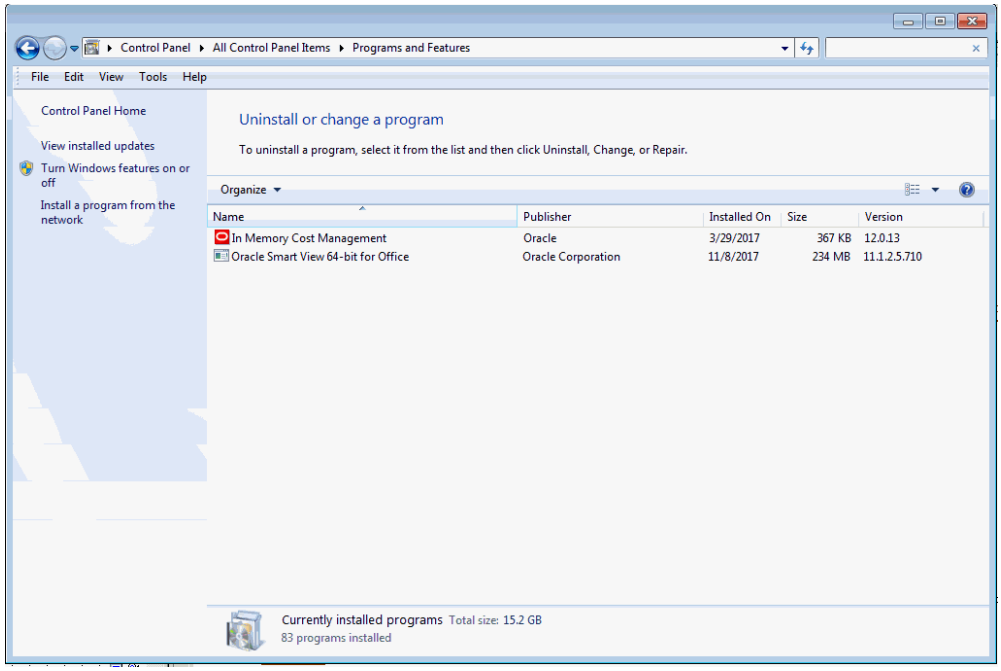
3. Set the Microsoft Windows timeout parameters. See: Setting Up Timeout Parameters, page C-4

Verification

Ensure that the In-Memory Cost Management Cloud Service and Oracle Smart View software components have been installed on your computer successfully.

1. Navigate to the Control Panel window on your computer.
2. Select the *Show which programs are installed on your computer* link.

   If installed correctly, In-Memory Cost Management Cloud Service and Oracle Smart View for Office appear in the panel.



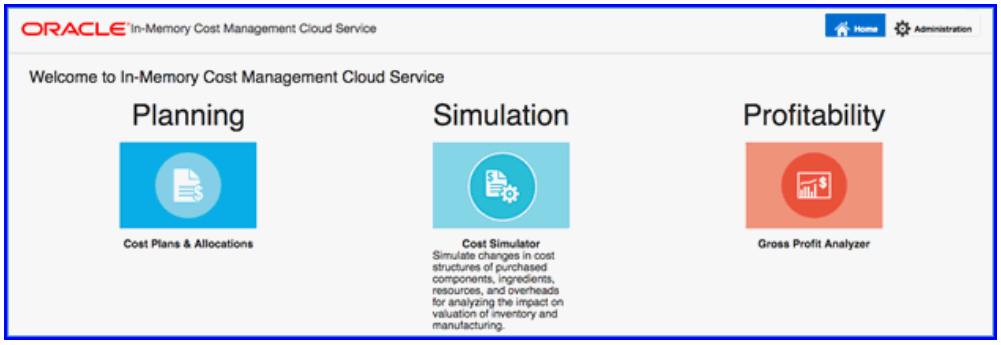
Note: The Smart View download is intended to be installed in Microsoft Windows. Depending on the particular Windows version; use the corresponding bit architecture (that is: 32-bit or 64-

bit) to install. The System window in Control Panel of your computer displays the version of Windows operating system that you are running.

Testing

1. Login to the In-Memory Cost Management Cloud Service application.

   The landing page appears.

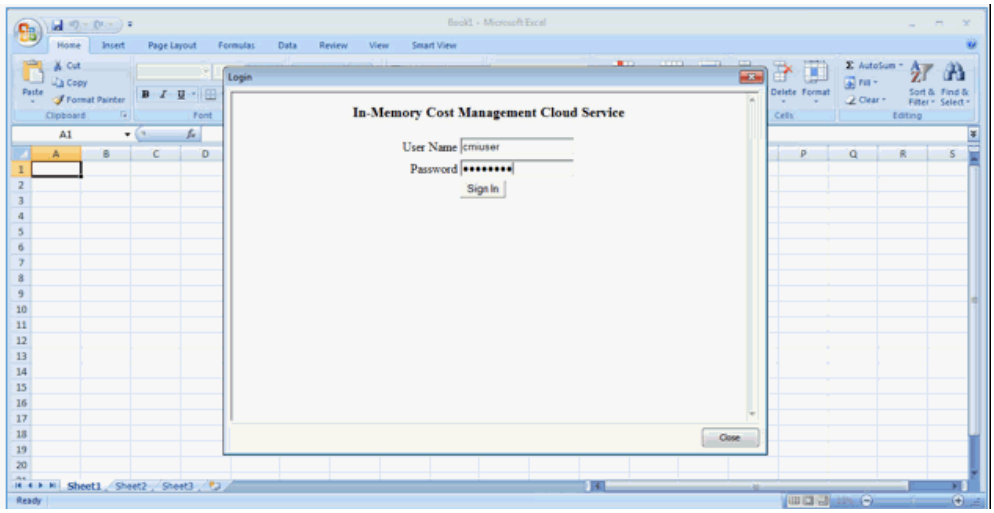


2. Select the Simulation tile to navigate to Create Cost Simulation tile.

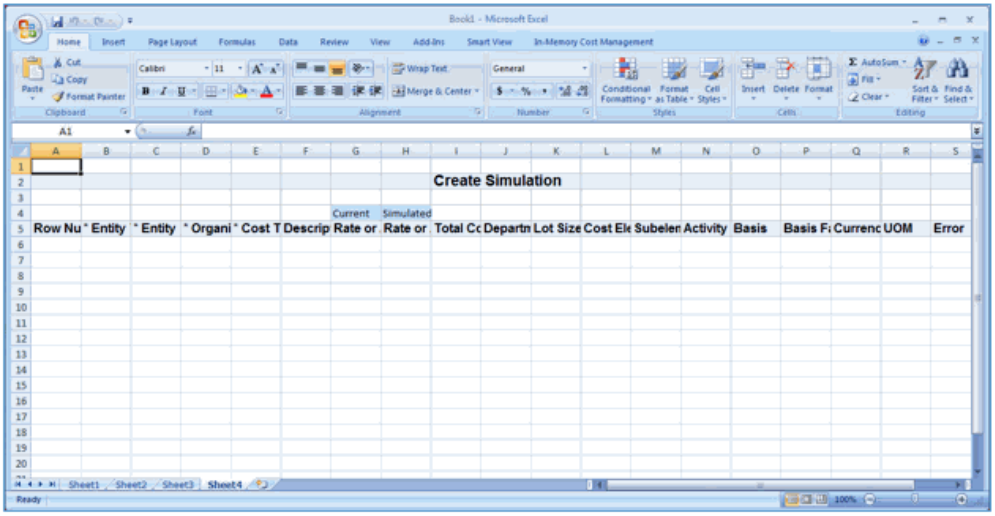
3. On the Cost Simulation tile, select either the Discrete or Process application.

   The Microsoft Excel program opens. If Microsoft Excel is not launched, see: Error Resolution, page C-10

4. You will be prompted to login a second time. Enter your login credentials again.



5. When the Create Simulation page is rendered, ensure that the Smart View and In-Memory Cost Management Cloud Service ribbons are present in the Microsoft Excel toolbar.



6. For improved readability, you can set spreadsheet cell style color and text options appearing in all the workbooks and worksheets you create. See: Smart View Cell Formatting, page 2-10

Setting Up Timeout Parameters

The Microsoft Windows registry on your computer needs to be updated to accommodate In-Memory Cost Management Cloud Service long running requests. The following three key timeout parameter entries in the Internet Settings section of the Registry Editor window need to be added:

- ReceiveTimeout
- KeepAliveTimeout
- ServerInfoTimeout

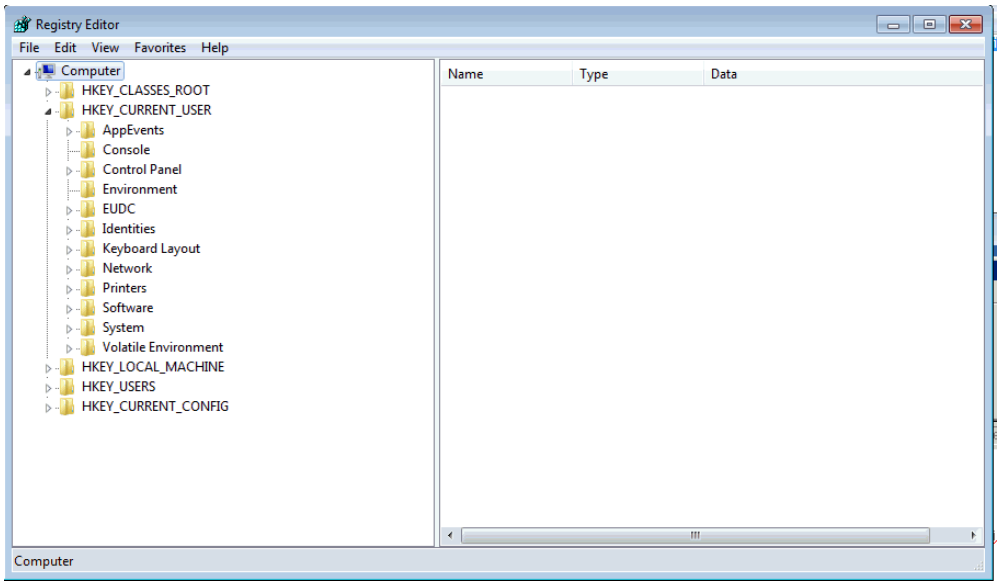
Parameter Setup Steps

To set up timeout parameters:

1. Launch the Microsoft Windows Registry Editor as an administrator. In the Run command window on your computer, enter *regedit* in the Open box.

2. Select OK

   Registry Editor window appears.

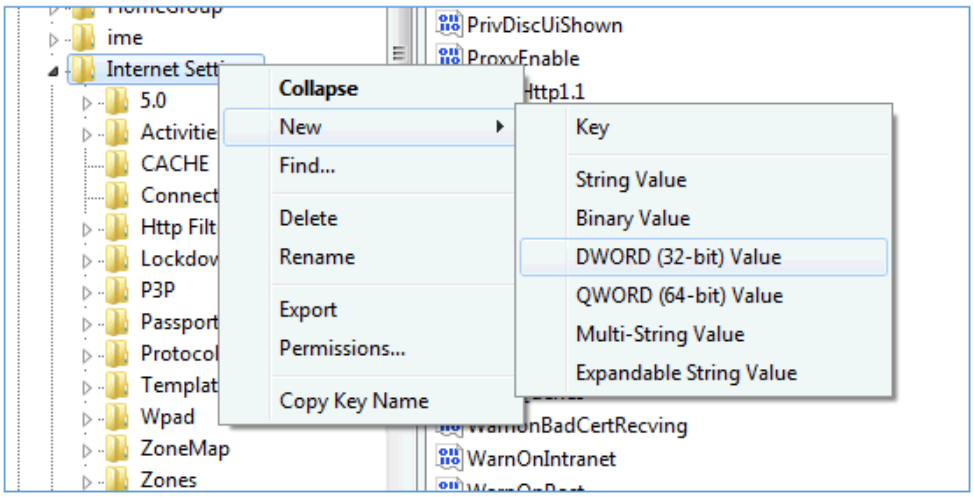


3. Navigate to the Internet Settings folder by selecting the folders using the following path:

   HKEY_CURRENT_USER > Software > Microsoft > Windows > CurrentVersion > Internet Settings

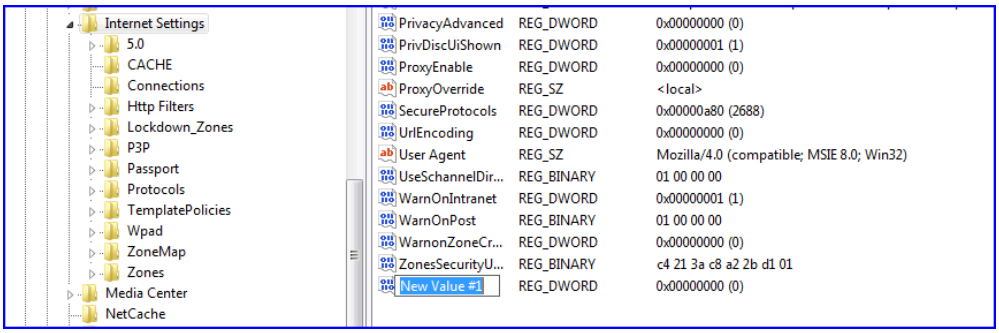
4. To add the new registry keys, right-click on Internet Settings, and select New from the pop-up list.

5. Select DWORD (32-bit) Value from the drop down menu.

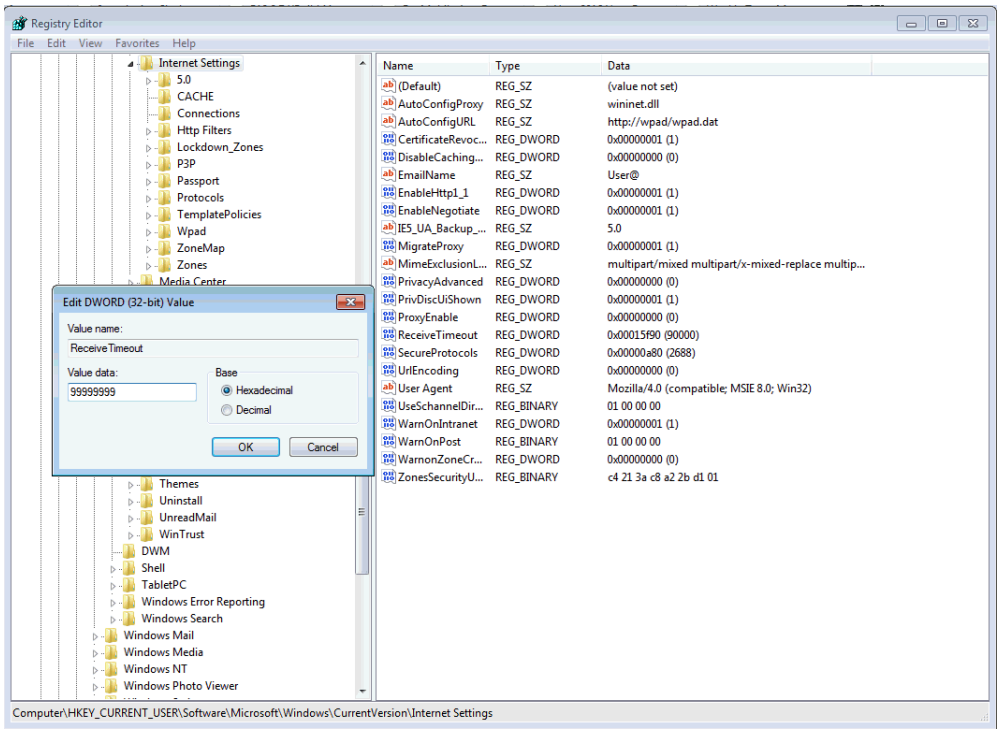


6. In the new registry key in the directory, replace the text *New Value #1* by entering ReceiveTimeout.

   Note: Parameter text entries are case sensitive.



7. Press the Enter key to display the Edit Value pop-up box for this parameter.



8. In the Value data field, enter the following values in one or the other of the Base values:

   - Hexadecimals: 99999999

     Note: The value entered for keys is in milli-seconds. If you receive a timeout error message when running simulations, return to these settings and increase the values.

   - Decimals: 2576980377

9. Select OK to save your work.

10. Repeat Steps 4 through 9 for the following values:

    - KeepAliveTimeout
    - ServerInfoTimeout

Security Setup

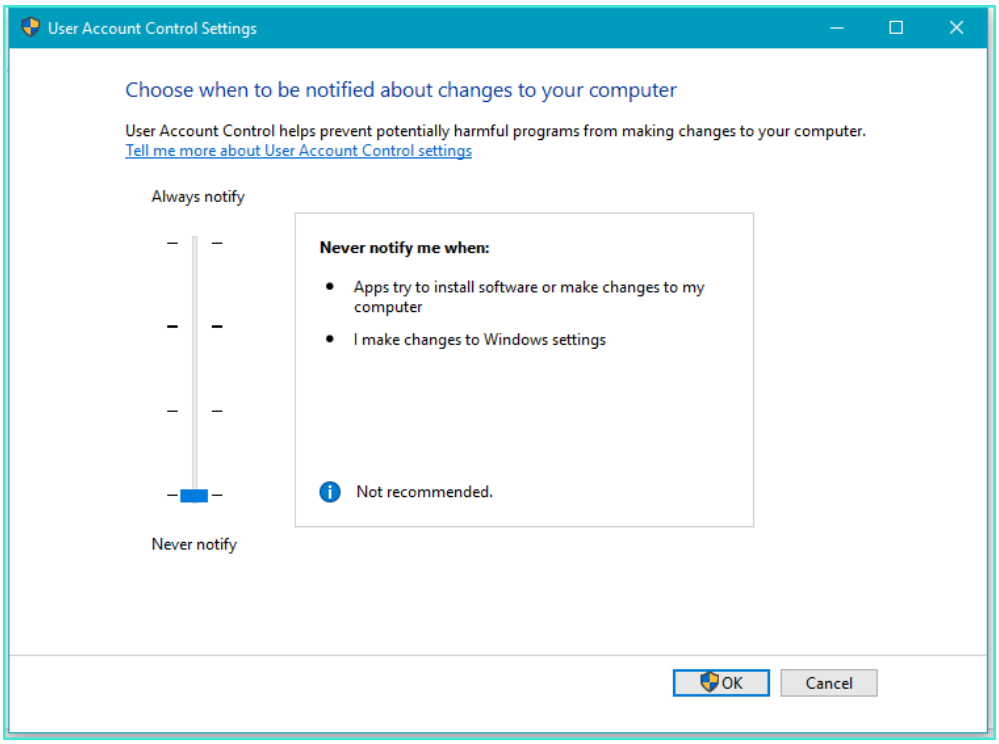
Security features of Windows or Excel may interfere with the installation of Smart View and IMCM Extensions. Perform the following steps to ensure that Smart View and the

IMCM Extension are installed properly.

Setting Security

1. Navigate to the Control Panel on your computer by right-clicking the Start button, and selecting Control Panel.

2. In the search box enter, Change User Account Control settings.



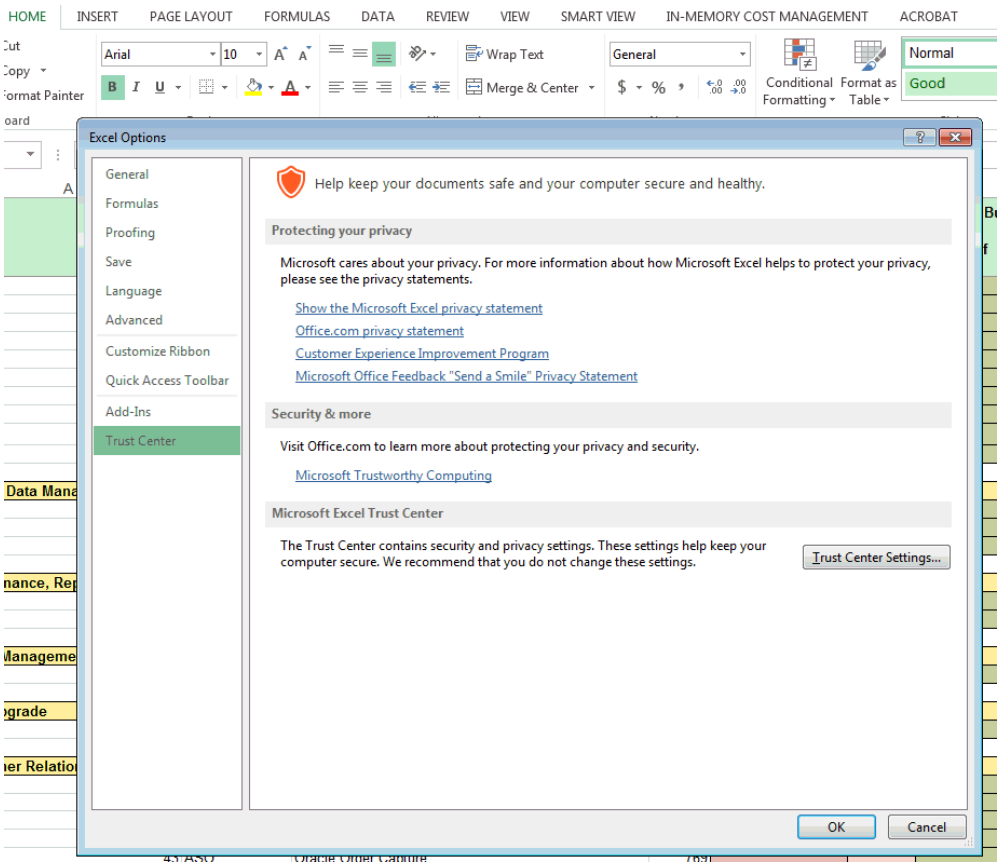
3. Set the slider to the setting Never Notify.

   This setting can be reverted to original setting after completing all the installation steps.

4. Select OK to save your setting.

5. In the Microsoft Excel application, set the Trusted Locations by:

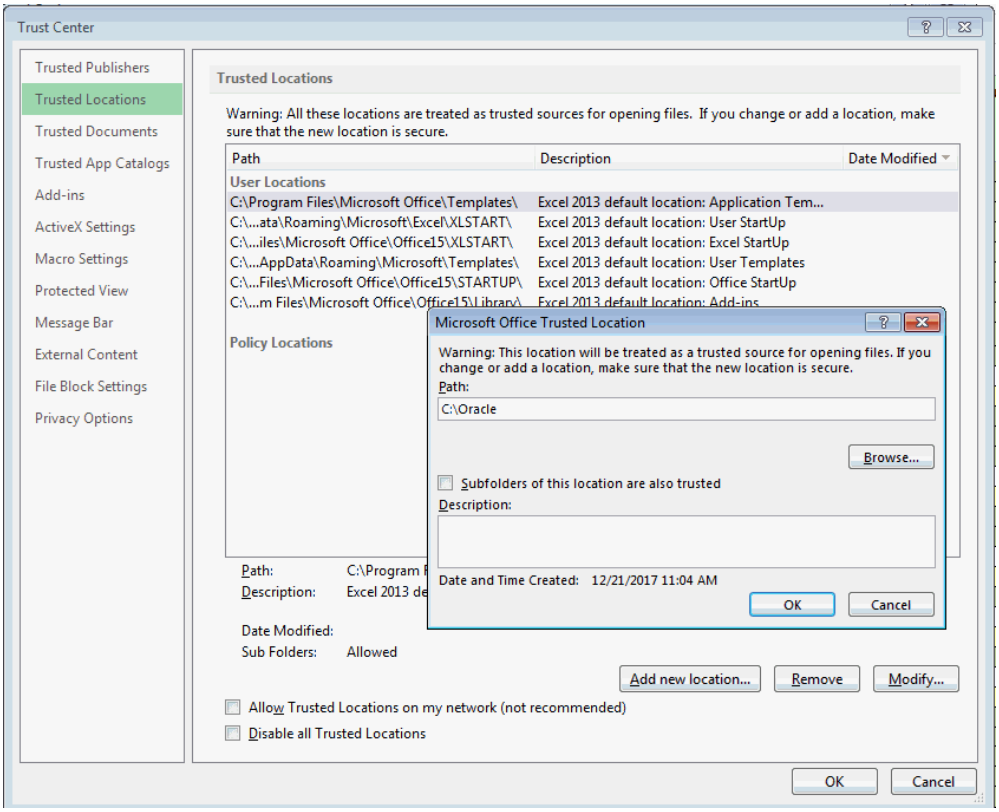
   - Opening the application
   - Select the File menu.
   - Choose Options.



6. On the Excel Options panel, select Trust Center.

7. Select Trusted Locations on the Trust Center panel.

   This window displays the trusted and secure locations for your organization.



8. Choose Add new location, the Microsoft Office Trusted Location box appears, and enter the following text in the Path box.

   Important: The text in the following path entries are case sensitive.

   C:\Oracle

9. Click OK to save the trusted location.

10. Repeat Steps 7 and 8 or following paths:

    - C:\Program Files (x86)\Oracle
    - C:\Program Files\Oracle

Error Resolution

Error	Create Cost Simulation worksheet does not appear when navigating from the Cost Simulator tile. The following error message appears: *The address was not understood.*
Issue	The browser does not open. The cause can be that the following protocol (oraclesv) is not associated with any program, or is not allowed in this context.
Resolutions	**Resolution 1** 1. In the browser Tools tab menu, select Add-ons to display the Add-ons page. The SmartView add-on is listed on this page of your browser. 2. If the Oracle Smart View for Office add-on is disabled, select Enable. 3. Close the tab. 4. Login to the In-Memory Cost Management Cloud Service application again, and repeat the testing procedure. If this does not correct the problem, there may be an issue with the add-on signature. **Resolution 2** 1. In the browser web address section, enter: about:config and Select Enter. 2. On the warning page, select: *I accept the risk!* 3. In about:config, page search for xpinstall. signatures.required If the value is set to True, double-click on the value to set it to False. 4. Restart the browser.

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