

Oracle® Retail Regular Price Optimization

User Guide for the RPAS Fusion Client

Release 15.0.2

January 2017

Copyright © 2017, Oracle and/or its affiliates. All rights reserved.

Primary Author: Melissa Artley

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Value-Added Reseller (VAR) Language

Oracle Retail VAR Applications

The following restrictions and provisions only apply to the programs referred to in this section and licensed to you. You acknowledge that the programs may contain third party software (VAR applications) licensed to Oracle. Depending upon your product and its version number, the VAR applications may include:

- (i) the **MicroStrategy** Components developed and licensed by MicroStrategy Services Corporation (MicroStrategy) of McLean, Virginia to Oracle and imbedded in the MicroStrategy for Oracle Retail Data Warehouse and MicroStrategy for Oracle Retail Planning & Optimization applications.
- (ii) the **Wavelink** component developed and licensed by Wavelink Corporation (Wavelink) of Kirkland, Washington, to Oracle and imbedded in Oracle Retail Mobile Store Inventory Management.
- (iii) the software component known as **Access Via**™ licensed by Access Via of Seattle, Washington, and imbedded in Oracle Retail Signs and Oracle Retail Labels and Tags.
- (iv) the software component known as **Adobe Flex**™ licensed by Adobe Systems Incorporated of San Jose, California, and imbedded in Oracle Retail Promotion Planning & Optimization application.

You acknowledge and confirm that Oracle grants you use of only the object code of the VAR Applications. Oracle will not deliver source code to the VAR Applications to you. Notwithstanding any other term or condition of the agreement and this ordering document, you shall not cause or permit alteration of any VAR Applications. For purposes of this section, "alteration" refers to all alterations, translations, upgrades, enhancements, customizations or modifications of all or any portion of the VAR Applications including all

reconfigurations, reassembly or reverse assembly, re-engineering or reverse engineering and recompilations or reverse compilations of the VAR Applications or any derivatives of the VAR Applications. You acknowledge that it shall be a breach of the agreement to utilize the relationship, and/or confidential information of the VAR Applications for purposes of competitive discovery.

The VAR Applications contain trade secrets of Oracle and Oracle's licensors and Customer shall not attempt, cause, or permit the alteration, decompilation, reverse engineering, disassembly or other reduction of the VAR Applications to a human perceivable form. Oracle reserves the right to replace, with functional equivalent software, any of the VAR Applications in future releases of the applicable program.

Contents

Send Us Your Comments	xiii
Preface	xv
Audience	xv
Documentation Accessibility	xv
Related Documents	xv
Customer Support	xvi
Review Patch Documentation	xvi
Improved Process for Oracle Retail Documentation Corrections	xvi
Oracle Retail Documentation on the Oracle Technology Network	xvii
Conventions	xvii
 1 Getting Started	
About Oracle Retail Regular Price Optimization	1-1
Goals and Constraints	1-1
RPO in the Overall Life Cycle of Price Planning	1-1
Application Workflow	1-2
Data Workflow	1-3
Users	1-3
RPO Workbooks	1-3
Permissible File Names	1-4
 2 Business Administration	
Building the Business Administration Workbook	2-1
Price Ladder Management Step	2-3
Price Ladder Setting View	2-3
Price Ladder Maintenance View	2-5
Merchandise Price Ladder Assignment View	2-6
Default Constraint Priority Setting Step	2-6
Default Priority Setting View	2-6
Batch Management Step	2-8
Batch Job Setting View	2-8

3 Scenario Management

Building the Scenario Management Workbook	3-1
Scenario - Calendar Assignment Step	3-4
Scenario Setting View	3-4
Scenario - Item Assignment Step	3-4
Select Items View	3-4
Scenario - Location Assignment Step	3-5
Select Locations	3-5
Scenario - Competitor Assignment Tab	3-6
Selected Competitors	3-6
Post Scenario Management	3-7

4 Item Management

Building the Item Management Workbook	4-1
Item Comparison Linkage Step	4-2
Item Linkage View	4-3
Like Item Step	4-3
Like Items View	4-4
Item Group Step	4-6
Item Group View.....	4-6
Post Item Management	4-8

5 Price Analysis

Building the Price Analysis Workbook	5-1
Scenario Goals and Constraints Step	5-3
Scenario Goals and Constraints View	5-3
Scenario Goals and Constraints Override View	5-6
Priority Setting Step	5-8
General Priority View	5-8
Competition Priority View	5-10
Item Constraints Step	5-11
Item Group Level View	5-11
Item Level View.....	5-13
Inter-Item Constraints Step	5-16
Item Linkage Override View	5-16
Select Constraint Items and Item Group Levels Views	5-16
Competition Constraints Step	5-19
Item Group Level and Competition Item Metrics Views.....	5-19
Optimization Dashboard Step	5-21
Group Objective Diagnostics View	5-22
Scenario Objective Diagnostics View	5-23
Select Scenario View	5-25
Select Price Zones View.....	5-26
Copy Scenario Selection View	5-26
Optimization/Validation Status View	5-27
Item Constraints Diagnostics View	5-28

Recommendations and What-If Step	5-29
Group Metrics View.....	5-29
Scenario Metrics View	5-32
Detail Metrics View.....	5-35
Price Entry View.....	5-38
Recommend and Approve Scenario View	5-39
Future Plan Metrics View	5-41
Miscellaneous Step	5-41
Cross-Item Elasticities View	5-41
Price Ladder View.....	5-42
Item - Item Group Assignment View	5-43
Item Self Elasticity Information View	5-43
Item Group Label Override View	5-44

6 Post Price Analysis

Building the Post Price Analysis Workbook	6-1
Post Price Analysis Step.....	6-3
Post Price Analysis View.....	6-3

Glossary

List of Figures

1-1	Life Cycle Price Planning Process.....	1-2
1-2	Regular Price Optimization Workflow Diagram	1-3
2-1	Business Administration Task	2-1
2-2	Business Administration Wizard: Select Category	2-2
2-3	Business Administration Wizard: Select Price Zone	2-2
2-4	Price Ladder Setting View	2-3
2-5	Generate Price Ladder.....	2-5
2-6	Price Ladder Maintenance View.....	2-5
2-7	Merchandise Price Ladder Assignment View	2-6
2-8	Default Priority Setting View	2-7
2-9	Batch Job Setting View	2-9
3-1	Scenario Management Task.....	3-2
3-2	Scenario Management Wizard: Select Category	3-2
3-3	Scenario Management Wizard: Select Scenario Group	3-3
3-4	Scenario Management Wizard: Select Price Zone.....	3-3
3-5	Scenario Setting View	3-4
3-6	Select Items View	3-5
3-7	Select Locations View	3-6
3-8	Selected Competitors Worksheet.....	3-6
3-9	Select Competitor List	3-7
4-1	Item Management Task.....	4-1
4-2	Item Management Wizard: Select Item.....	4-2
4-3	Item Management Wizard: Select Price Zone.....	4-2
4-4	Item Linkage View	4-3
4-5	Like Items View.....	4-4
4-6	Copy Like Item	4-4
4-7	Item Group View	4-7
4-8	Price Family Indicator and Item Group Assignments.....	4-7
5-1	Price Analysis Task.....	5-2
5-2	Price Analysis Wizard: Select Scenario Group	5-3
5-3	Scenario Goals and Constraints View	5-4
5-4	Scenario Goals and Constraints Override View	5-6
5-5	General Priority View.....	5-9
5-6	Competition Priority View	5-10
5-7	Item Group Level View.....	5-11
5-8	Item Level View	5-13
5-9	Seed Price Family Menu	5-14
5-10	SEEDDED Item Group Constraints	5-14
5-11	Item Link Group Overrides View.....	5-16
5-12	Select Constraint Items and Item Group Level Views.....	5-17
5-13	Item Group Level and Competition Item Metrics Views.....	5-20
5-14	Group Objective Diagnostics View	5-22

5-15	Scenario Objective Diagnostics View	5-24
5-16	Select Scenario View	5-25
5-17	Select Price Zone(s) View	5-26
5-18	Copy Scenario Selection View	5-26
5-19	Copy Scenario Option	5-27
5-20	Optimize Prices Option.....	5-27
5-21	Optimization/Validation Status View.....	5-27
5-22	Item Constraints Diagnostics View	5-28
5-23	Relaxed Constraints Example	5-29
5-24	Group Metrics View	5-30
5-25	Scenario Metrics View	5-33
5-26	Detail Metrics View	5-36
5-27	Price Entry View	5-38
5-28	Find Constraint Violations Option	5-39
5-29	Recommend and Approve Scenario View	5-40
5-30	Recommend/Approve Price Option.....	5-40
5-31	Future Plan Metrics View	5-41
5-32	Cross-Item Elasticities View	5-42
5-33	Price Ladder View	5-42
5-34	Item - Item Group Assignment View	5-43
5-35	Item Self Elasticity Information View	5-44
5-36	Item Group Label Override View.....	5-44
6-1	Post Price Analysis Task	6-1
6-2	Post Price Analysis Wizard: Select Price Zone	6-2
6-3	Post Price Analysis Wizard: Select Week	6-2
6-4	Post Price Analysis Wizard: Select Products	6-3
6-5	Post Price Analysis View	6-4

List of Tables

2-1	Price Ladder Setting View Measures	2-4
2-2	Price Ladder Maintenance View Measures.....	2-5
2-3	Merchandise Price Ladder Assignment View Measures	2-6
2-4	Default Priority Setting View Measures	2-7
2-5	Batch Job Setting View Measures	2-9
3-1	Scenario Setting View Measures.....	3-4
3-2	Select Items View Measures	3-5
3-3	Select Locations View Measures	3-6
4-1	Item Linkage View Measure	4-3
4-2	Like Items View Measures.....	4-5
4-3	Item Group View Measures	4-7
5-1	Scenario Goals and Constraints View Measures.....	5-4
5-2	Scenario Goals and Constraints Override View Measures.....	5-7
5-3	General Priority View Measures.....	5-9
5-4	Competition Priority View Measures	5-10
5-5	Item Group Level View Measures.....	5-12
5-6	Item Level View Measures	5-14
5-7	Item Link Group Overrides View Measures.....	5-16
5-8	Select Item Constraints View Measures	5-18
5-9	Item Group Level View Measures.....	5-19
5-10	Item Group Level View Measures.....	5-21
5-11	Competition Item Metrics View Measures.....	5-21
5-12	Group Objective Diagnostics View Measure	5-22
5-13	Scenario Objective Diagnostics Measures	5-24
5-14	Select Scenario View Measure.....	5-25
5-15	Select Price Zones View Measure	5-26
5-16	Optimization/Validation Status View Measures.....	5-28
5-17	Group Metrics View Measures	5-31
5-18	Scenario Metrics View Measures.....	5-34
5-19	Detail Metrics View Measures	5-37
5-20	Price Entry View Measures	5-39
5-21	Recommend and Approve Scenario View Measures	5-40
5-22	Future Plan Metrics View	5-41
5-23	Cross-Item Elasticities View Measure.....	5-42
5-24	Price Ladder View Measures	5-43
5-25	Item - Item Group Assignment View Measure	5-43
5-26	Item Self Elasticity Information View	5-44
5-27	Item Group Label Override View.....	5-45
6-1	Post Price Analysis View Measures	6-4

Send Us Your Comments

Oracle Retail Regular Price Optimization User Guide for the RPAS Fusion Client, Release 15.0.2.

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

Note: Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the Online Documentation available on the Oracle Technology Network Web site. It contains the most current Documentation Library plus all documents revised or released recently.

Send your comments to us using the electronic mail address: retail-doc_us@oracle.com

Please give your name, address, electronic mail address, and telephone number (optional).

If you need assistance with Oracle software, then please contact your support representative or Oracle Support Services.

If you require training or instruction in using Oracle software, then please contact your Oracle local office and inquire about our Oracle University offerings. A list of Oracle offices is available on our Web site at <http://www.oracle.com>.

Preface

This guide describes the Oracle Retail Regular Price Optimization user interface. It provides step-by-step instructions to complete most tasks that can be performed through the user interface.

Audience

This User Guide is for users and administrators of Oracle Retail Regular Price Optimization. This includes merchandisers, buyers, business analysts, and administrative personnel.

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.

Related Documents

For more information, see the following documents in the Oracle Retail Regular Price Optimization Release 15.0.2 documentation set:

- *Oracle Retail Regular Price Optimization Installation Guide*
- *Oracle Retail Regular Price Optimization Release Notes*
- *Oracle Retail Regular Price Optimization User Guide for the RPAS Classic Client*
- *Oracle Retail Regular Price Optimization User Guide for the RPAS Fusion Client*
- Oracle Retail Predictive Application Server documentation

The following documentation may also be needed when implementing RPO:

- *Oracle Retail Planning Batch Script Architecture Implementation Guide*

For more information about the Analytic Parameter Calculator for Regular Price Optimization (APC-RPO) application, see the Oracle Retail Analytic Parameter Calculator for Regular Price Optimization documentation set.

For more information about RPAS and the ODI enabled integration, see the following documentation sets:

- Oracle Retail Enabled ODI Integration documentation
- Oracle Data Integrator documentation
- Oracle Retail Predictive Application Server documentation

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

<https://support.oracle.com>

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 15.0) or a later patch release (for example, 15.0.2). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times not be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail product documentation is available on the following web site:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

(Data Model documents are not available through Oracle Technology Network. You can obtain them through My Oracle Support.)

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Getting Started

Oracle Retail Regular Price Optimization (RPO) assists retail price managers in pricing hard-line and grocery items.

About Oracle Retail Regular Price Optimization

Oracle Retail Regular Price Optimization (RPO) assists retail price managers in pricing hard-line and grocery items. It is suited for long lifecycle items with infrequent price changes. It recommends permanent prices based on initial estimates of an item's total sales volume over a planning period and on price-related sales of items and related items.

RPO includes grouping in its pricing analysis because it considers cross-item elasticities; that is, RPO considers how price changes for one item may affect the sales volume of other items. Users can input objective functions and pricing constraints that define the optimization problem. Once these inputs are defined, RPO recommends prices. Multiple scenarios can be created and evaluated side by side, and what-if analysis can be performed within the context of a pricing scenario. After analyzing the What-if results and recommended prices, the user can make a final decision to submit the recommended prices for the given set of merchandise items and locations.

Goals and Constraints

As part of the RPO planning process, the price manager is trying to achieve a category objective. The category objective is a strategic understanding of the category in the larger plan for the year. RPO can be used to support the category objective. A price manager can run different scenarios (such as maximizing gross margin versus maximizing revenue) to support the category objective. This initial strategy could be optimized in detail as part of the RPO process. RPO is also very cognizant of how prices affect consumers and supports extensive business constraints on item prices.

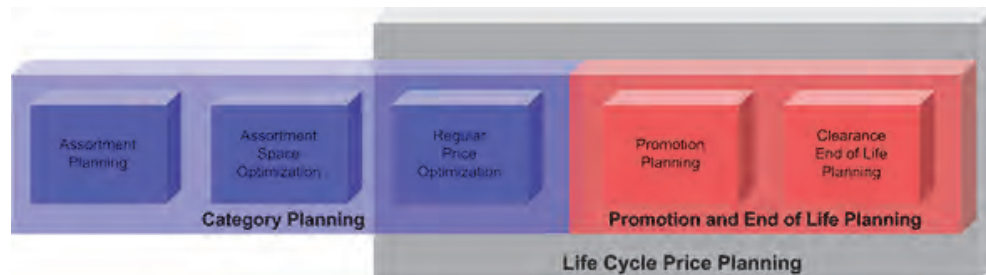
Another important component of the RPO planning process is to strategize against the competition. In this regard, RPO supports price constraints at the item level and also supports optimization goals to maximize the gains against the competition for the entire category.

RPO in the Overall Life Cycle of Price Planning

RPO fits at the intersection of category planning and price planning in hard-line and grocery implementation. It is a key step in the category planning process after the assortment for the current season has been planned. RPO optimizes the price of all the items towards the category objective.

RPO is also the first in a three-step lifecycle pricing process. It is possible to start with RPO and arrive at demand for the planning horizon by item/store/week. This demand can serve as the baseline demand for the promotion process. After the pricing plan is approved at the end of the RPO process, the demand estimate can be sent to a replenishment system or used as the baseline for the promotion planning process.

Figure 1–1 Life Cycle Price Planning Process



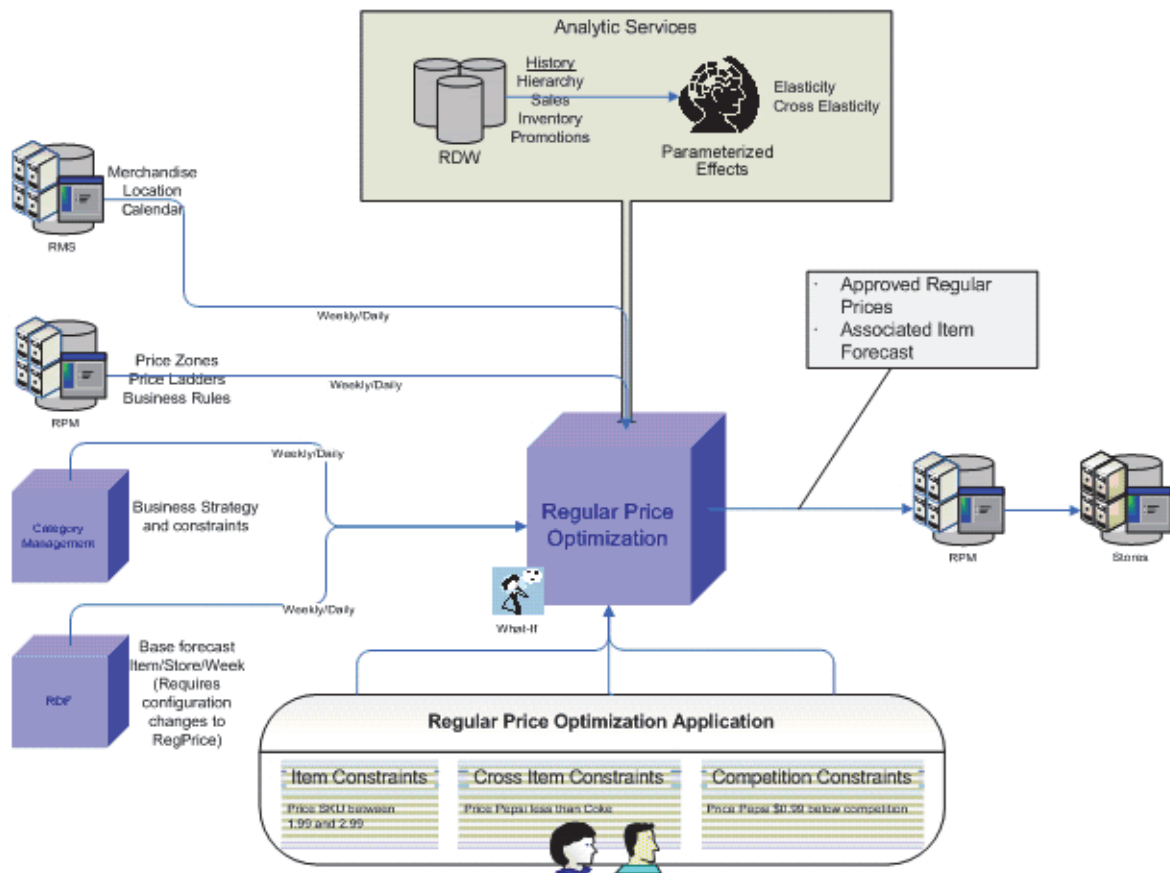
Application Workflow

The following steps describe the workflow of the RPO application:

1. Set the price ladders and general business priorities in the [Business Administration](#) task.
2. Create a scenario by selecting the merchandise, location, and calendar components to be included in the optimization. Use the [Scenario Management](#) task.
3. Map items, inter-items, and item groups in the [Item Management](#) task.
4. Based on your business requirements, create constraints and pricing rules for each scenario in the [Price Analysis](#) task.
5. Using the What-if analysis and price recommendations, perform a scenario comparison. Select a scenario and submit it for pricing using the [Price Analysis](#) task.

Data Workflow

Figure 1–2 Regular Price Optimization Workflow Diagram



Users

RPO users may be category managers, price managers, planners, buyers, and merchandisers. In most organizations, price planning is managed by a price manager. The price manager consults the category manager for an overall goal. The price manager then creates a detailed scenario plan and makes a recommendation to the category manager for approval. The boundaries of each of their functions vary by organization; therefore, RPO is flexible to support different roles and functions associated with these roles.

The price planning approach is strategic and varies by organizational goal, competition, and category goals, especially in respect to chain or zone level pricing. RPO supports a flexible notion of this plan and allows the user to manage pricing at one, many, or all price zones.

RPO Workbooks

RPO contains the following workbooks:

- [Business Administration](#)

- [Scenario Management](#)
- [Item Management](#)
- [Price Analysis](#)
- [Post Price Analysis](#)

Permissible File Names

When saving a workbook (or saving a copy using the **Save As** command), there are restrictions on the length of the file name and the characters that can be used,

- The file name can be a maximum of 32 characters.
- The filename can contain the following standard characters:
 - a - z
 - A - Z
 - 0 - 9
- The filename can contain the following special characters:
 - .
 - |
 - _
 - -
 - /
 - \$
 - &
 - spaces

Any file name not meeting these conditions results in an error message.

Business Administration

The Business Administration task helps you to create price ladders, set optimization priorities, and manage batch processes. It has three steps to help you achieve these:

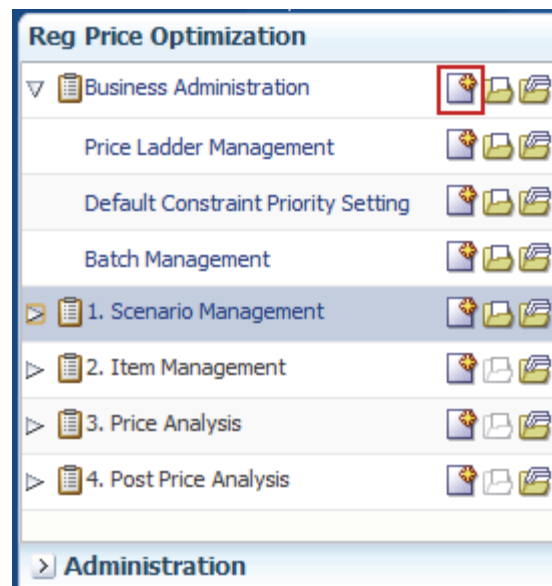
- [Price Ladder Management Step](#)
- [Default Constraint Priority Setting Step](#)
- [Batch Management Step](#)

Building the Business Administration Workbook

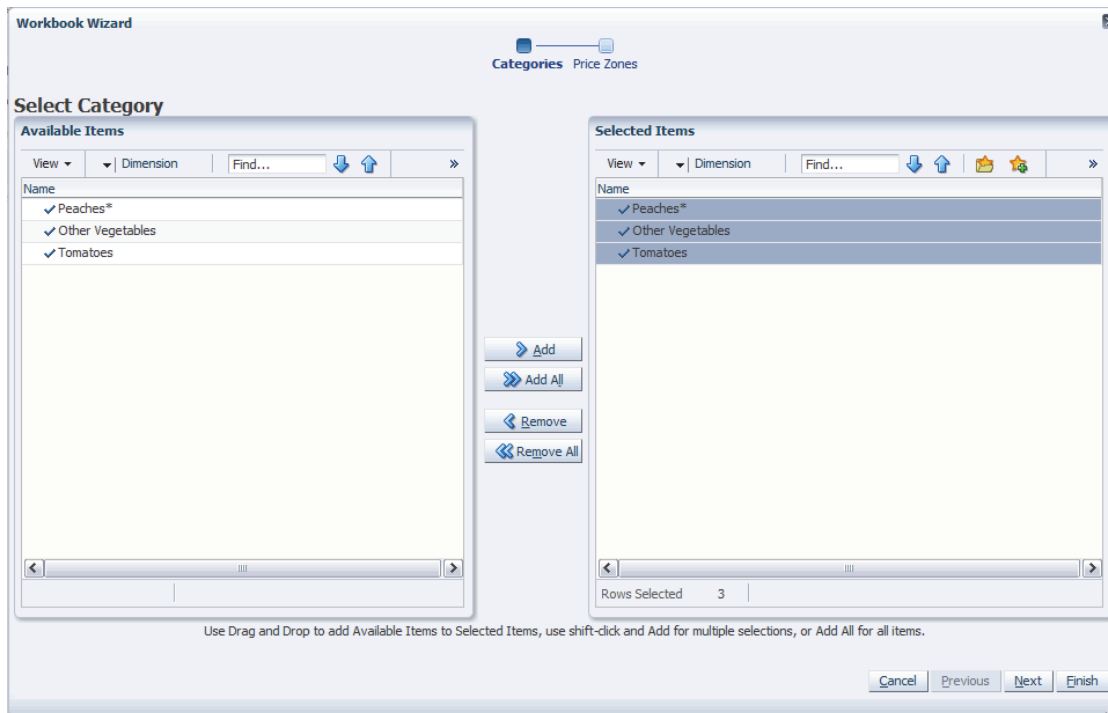
To build the Business Administration workbook, perform the following steps:

1. Click the **New Workbook** icon in the Business Administration task.

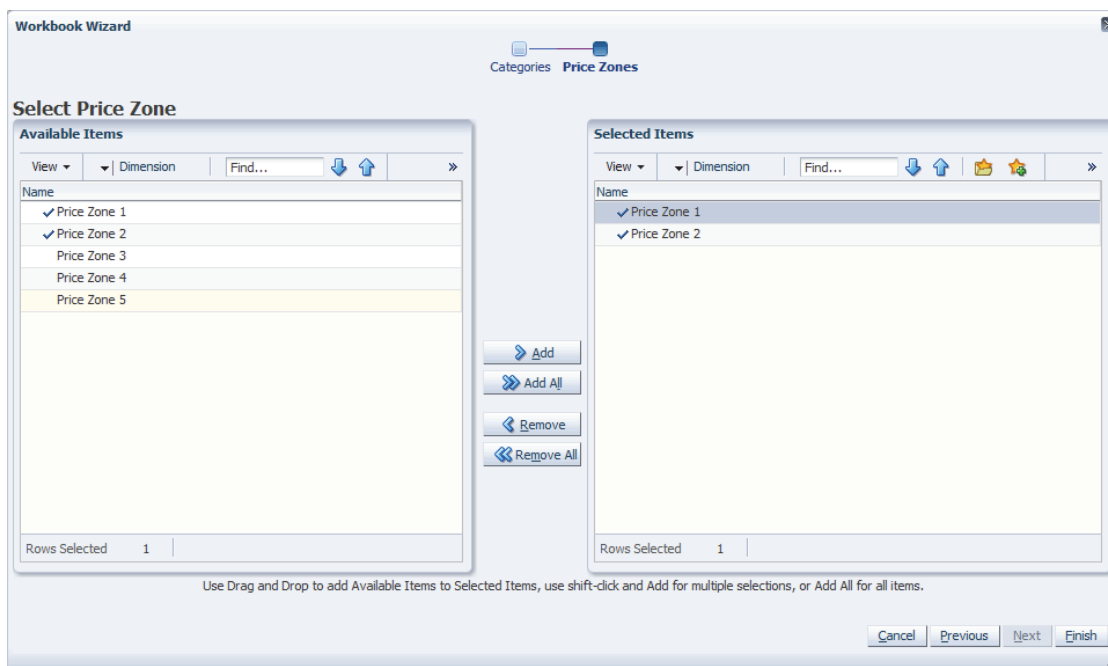
Figure 2–1 Business Administration Task



2. The Business Administration wizard opens. Select the categories you want to work with and click **Next**.

Figure 2–2 Business Administration Wizard: Select Category

3. Select the price zones you want to work with and click **Finish**.

Figure 2–3 Business Administration Wizard: Select Price Zone

The Business Administration workbook is built.

Price Ladder Management Step

This step contains views to help you create price ladders, set optimization priorities, and manage batch processes. There are three views:

- [Price Ladder Setting View](#)
- [Price Ladder Maintenance View](#)
- [Merchandise Price Ladder Assignment View](#)

Price Ladder Setting View

Use this view to edit the price ladders that were loaded during the batch process.

A price ladder is a collection of acceptable price points for an item. Price ladders are loaded to ensure appropriate recommended prices are provided based upon optimization results. RPO recommends only prices that are price points on the price ladder.

For example, if the optimization engine recommends a price of \$11.93, but your price strategy is that all prices must end in .00 and price steps must occur every \$2.00, then RPO recommends \$12.00 instead of \$11.93.

Using this view, you can set the range of prices for the price ladder, the price steps (the required difference between consecutive price points), and the ending digits of the price points.

Figure 2–4 Price Ladder Setting View

The screenshot shows the 'Price Ladder Setting' window. It has a toolbar with icons for grid, chart, bar, and map, along with a 'Find...' search box and navigation arrows. Below the toolbar is a table with two columns: 'Price Ladder with \$0.2' and 'Price Ladder with \$1'. The table contains settings for generating price ladders, including high and low prices, price steps, ending digits, and ending digit selections.

	Price Ladder with \$0.2	Price Ladder with \$1
Generate Price Ladder	☒	☒
High Price	19.99	99.99
Low Price	0.19	0.99
Price Step	20	10
Ending Digit At	Hundredth	Hundredth
Ending Digit 0	☐	☐
Ending Digit 1	☒	☐
Ending Digit 2	☐	☐
Ending Digit 3	☒	☐
Ending Digit 4	☐	☐
Ending Digit 5	☒	☐
Ending Digit 6	☐	☐
Ending Digit 7	☒	☐
Ending Digit 8	☐	☐
Ending Digit 9	☒	☒
Message		

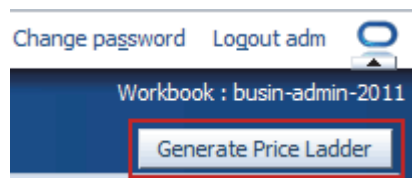
Table 2–1 lists the measures in this view.

Table 2-1 Price Ladder Setting View Measures

Measure	Description
Generate Price Ladder	Select this boolean measure to generate the price ladder you have edited. After you have selected it, click the Generate Price Ladder button (as described below).
Low Price	The lowest price on the price ladder. No item that uses this price ladder can have a price lower than this amount.
High Price	The highest price on the price ladder. No item that uses this price ladder can have a price higher than this amount.
Price Step	Use the picklist to set the price step value based on the Ending Digit At measure. The price step value is calculated by multiplying the selected value in the Price Step measure by the Ending Digit At measure. For example, if the Price Step measure is set to 10 and the Ending Digit At measure is set to Hundredth, then the price step value is $10 \times 0.01 = 0.1$.
Ending Digit At	Use this measure to specify what the selected ending digit means in the price ladder. Options are Ones, Tenth, or Hundredth. For example, if you select the ending digits 1, 3, and 5 and you select Hundredth in this measure, then the ending digits are 0.01, 0.03, and 0.05. If you selected Tenth in this measure, then the ending digits are 0.1, 0.3, and 0.5.
Ending Digit X	Use these measures to select the ending digits for the price points. For example, Figure 2-4 shows the first price ladder with five ending digits selected: 1, 3, 5, 7, and 9. Therefore, the price points in that price ladder can only end with 1, 3, 5, 7, or 9. Its price points could be \$0.19, \$0.21, \$0.23, \$0.25, \$0.27, and so on.
Message	This is a read-only measure that displays the return message from the Price Ladder Generation call.

To edit and generate a price ladder, perform the following steps:

1. Enter the highest price for the price ladder in the High Price measure. This means that no item that uses this price ladder can have a price above this amount.
2. Enter the lowest price for the price ladder in the Low Price measure. This means that no item that uses this price ladder can have a price below this amount.
3. Set the Price Step and Ending Digit At measures for this price ladder. The price step is the required difference between consecutive price points. For instance, if you want the prices on the price ladder to be \$1.00, \$1.10, \$1.20, \$1.30, and so on, you would select 10 in the Price Step measure and Tenth in the Ending Digit At measure.
4. In the Ending Digit measures, select the ending digits allowed for the price points. For instance, if you want all prices to end with 9, such as \$14.49 and \$14.99, then you would select only the Ending Digit 9 measure. If you want prices to end with only 1, 3, 5, 7, or 9, you would select those five measures, as shown in [Figure 2-4](#).
5. After editing the price ladders, select the **Generate Price Ladder** measure for each of the price ladders you want to generate.
6. Click the **Generate Price Ladder** button in the top, right corner ([Figure 2-5](#)). This generates the price points shown in the [Price Ladder Maintenance View](#).

Figure 2-5 Generate Price Ladder

After you have edited and generated the price ladders, continue to the [Price Ladder Maintenance View](#) to review the price points and price ladders you created.

Price Ladder Maintenance View

Use this view to review and edit the price ladders and price points you created in the [Price Ladder Setting View](#).

To edit a specific price point, double-click it and enter a new price.

Figure 2-6 Price Ladder Maintenance View

 A screenshot of the 'Price Ladder Maintenance' window. It features a toolbar with various icons and a search bar. Below the toolbar, there are two columns of data representing price ladders. The first column is titled 'Price Ladder with \$0.2 step from 0.19 to 19.99' and the second is 'Price Ladder with \$1 step from 0.99 to 99.99'. Each column lists 19 price points, numbered 001 to 019. The first column's prices range from \$0.19 to \$3.79, and the second column's prices range from \$0.99 to \$18.99. The third column, labeled 'Price Points - Price Ladder', shows the measure being used to edit the price points.

	Price Ladder with \$0.2 step from 0.19 to 19.99	Price Ladder with \$1 step from 0.99 to 99.99	
001	\$0.19	\$0.99	
002	\$0.39	\$1.99	
003	\$0.58	\$2.99	
004	\$0.79	\$3.99	
005	\$0.99	\$4.99	
006	\$1.19	\$5.99	
007	\$1.39	\$6.99	
008	\$1.59	\$7.99	
009	\$1.79	\$8.99	
010	\$1.99	\$9.99	
011	\$2.19	\$10.99	
012	\$2.39	\$11.99	
013	\$2.59	\$12.99	
014	\$2.79	\$13.99	
015	\$2.99	\$14.99	
016	\$3.19	\$15.99	
017	\$3.39	\$16.99	
018	\$3.59	\$17.99	
019	\$3.79	\$18.99	

Table 2-2 lists the measures in this view.

Table 2-2 Price Ladder Maintenance View Measures

Measure	Description
Price Points - Price Ladder	The price points on a given price ladder. Use this measure to edit the price points.

After you have reviewed and edited the price points, continue to the [Merchandise Price Ladder Assignment View](#).

Merchandise Price Ladder Assignment View

Use this view to assign price ladders to a category and price zone.

Select a price ladder for each price zone. After you have assigned the price ladders, save and commit the workbook.

Figure 2–7 Merchandise Price Ladder Assignment View

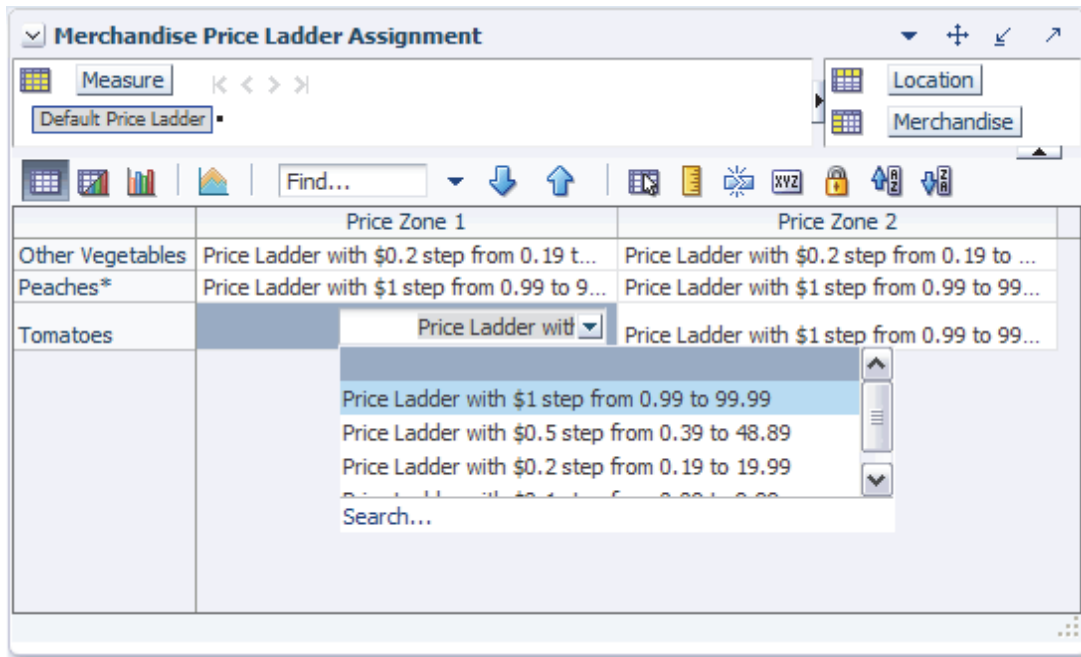


Table 2–3 lists the measures in this view.

Table 2–3 Merchandise Price Ladder Assignment View Measures

Measure	Description
Default Price Ladder	The price ladder that will be used with a price zone by default.

Default Constraint Priority Setting Step

This step contains one view: Default Priority Setting.

Default Priority Setting View

This view displays all constraint types available in RPO. Constraints are rules that you define for RPO to obey when optimizing for prices. These constraints are created in the [Price Analysis](#) task. For instance, you can create a competition constraint that all canned peaches items are priced cheaper than the competition's prices.

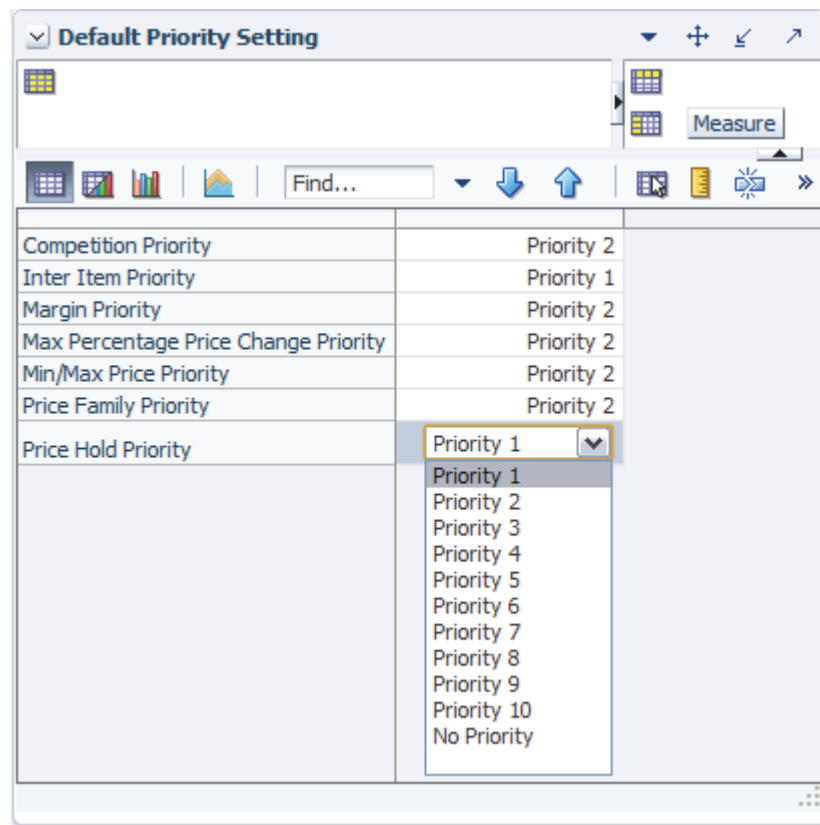
Before you create these specific constraints, however, you should define the default priorities for each constraint type in this view. For instance, if your main sales objective is to have lower prices than the competition, you would set the Competition Priority measure to a high priority such as Priority 1 or Priority 2. However, if your main

objective is to increase your gross margin, you would set the Margin Priority measure to a high priority.

If you set a constraint to have a priority 2 through 10, RPO attempts to obey that constraint, but if it cannot, it relaxes or bends the rules of the constraint until it finds a feasible solution. However, if you set a constraint to priority 1 and RPO cannot obey that constraint, it returns a message stating there is no feasible solution. If RPO must choose between obeying two constraint types that conflict, it obeys the constraint with the highest priority. Note that multiple constraint types can have the same priority.

The default priorities that you assign to the constraint types in this view are for all scenarios and price zones. These priorities can be overridden for specific scenarios and price zones in the [Priority Setting Step](#) of the [Price Analysis](#) task.

Figure 2–8 Default Priority Setting View



[Table 2–4](#) lists the measures in this view.

Table 2–4 Default Priority Setting View Measures

Measure	Description
Competition Priority	Use this measure to set the priority for maintaining the competition constraints that define the relationship between your items and the competitor items. These competition constraints are created in the Competition Constraints Step of the Price Analysis task.

Table 2–4 (Cont.) Default Priority Setting View Measures

Measure	Description
Inter Item Priority	Use this measure to set the priority for maintaining the inter-item constraints that define the relationship between two items (for instance, the relationship between the prices of a brand name item and the same private label item). These inter-item constraints are created in the Inter–Item Constraints Step of the Price Analysis task.
Margin Priority	Use this measure to set the priority for maintaining the margin constraints. The margin constraints are created in the Scenario Goals and Constraints Step of the Price Analysis task.
Max Percentage Price Change Priority	Use this measure to set the priority for maintaining the maximum percentage price change constraint that defines how much or how little change is allowed between the original price and the recommended price. These constraints are created in the Scenario Goals and Constraints Step of the Price Analysis task.
Min/Max Price Priority	Use this measure to set the priority for maintaining the min/max price priority constraint. The minimum and maximum item price constraints are set in the Item Constraints Step of the Price Analysis task.
Price Family Priority	Use this measure to set the priority for maintaining a price family. A price family is a group of items that have the same price. Price families are created in the Select Constraint Items and Item Group Levels Views in the Price Analysis task.
Price Hold Priority	Use this measure to set the priority for maintaining a price hold on an item. Setting a price hold on an item means that you do not want RPO to change that item’s price. Price holds are applied to items in the Item Constraints Step of the Price Analysis task.

After you have set the default priorities, continue to the [Batch Management Step](#).

Batch Management Step

This step contains one view: Batch Job Setting.

Batch Job Setting View

Use this view to select the scenarios that you want to run during the batch process. This is useful because it allows you to select only the scenarios that you want to work with to be run during batch rather than all scenarios.

After the scenarios are run during batch, the Last Run Date measure displays the date of the run.

Figure 2–9 Batch Job Setting View

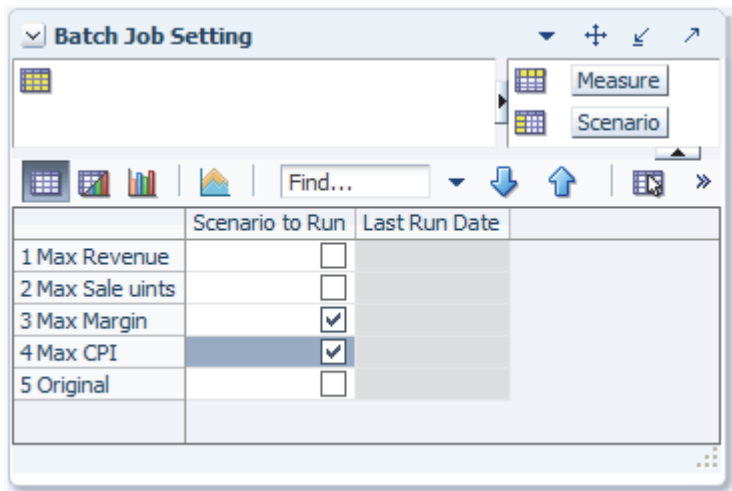


Table 2–5 lists the measures in this view.

Table 2–5 Batch Job Setting View Measures

Measure	Description
Scenario to Run	Use this measure to select the scenarios that you want to run during batch.
Last Run Date	This is a read-only measure that displays the date of the last batch run.

After you have selected the scenarios that you want to run during batch, commit the workbook. Build the [Scenario Management](#) task to define the items, locations, and time periods for the scenarios.

Scenario Management

This chapter describes the Scenario Management task. A scenario defines a group of items for particular price zones during a particular time period. After you define the scenarios in this task, use the [Price Analysis](#) task to define your optimization goals to find the optimized prices for the items in those scenarios. The Scenario Management task contains these steps:

- [Scenario - Calendar Assignment Step](#)
- [Scenario - Item Assignment Step](#)
- [Scenario - Location Assignment Step](#)
- [Scenario - Competitor Assignment Tab](#)

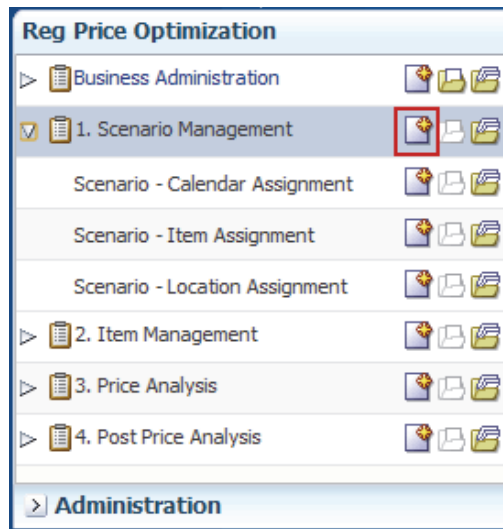
After you have defined the time period, items, and price zones for the scenarios, refer to [Post Scenario Management](#).

Building the Scenario Management Workbook

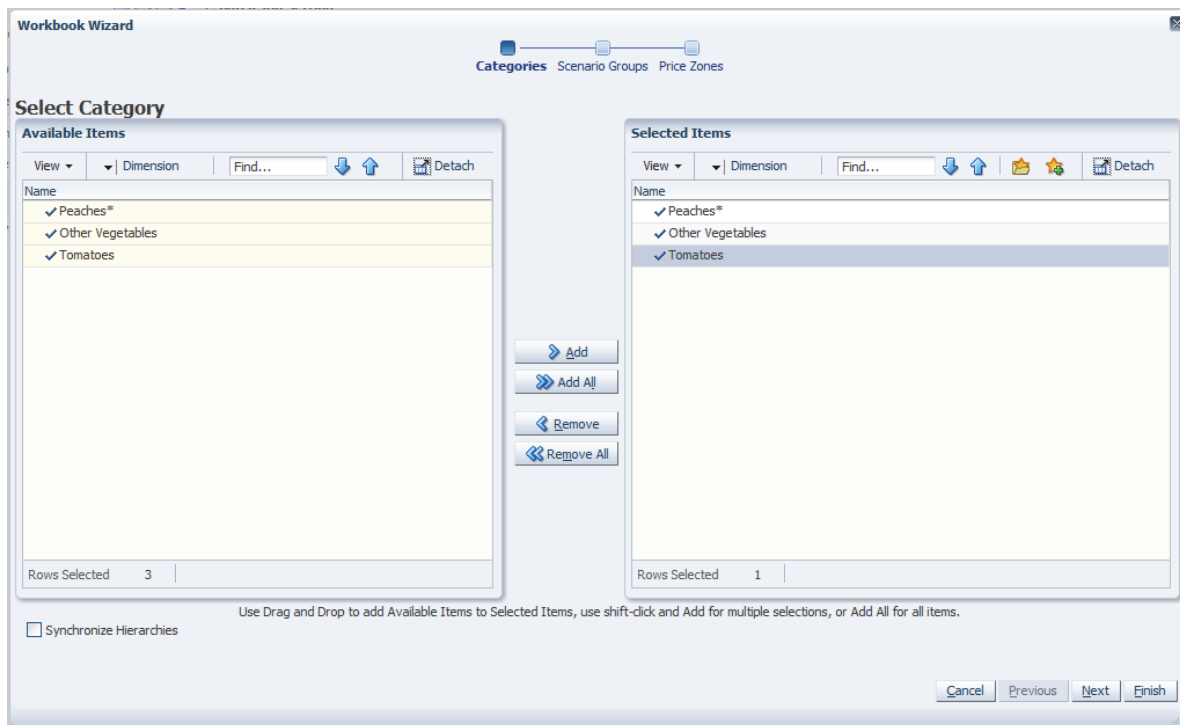
To build the Scenario Management workbook, perform the following steps:

Note: To build the Scenario Management workbook, you must be in a local domain.

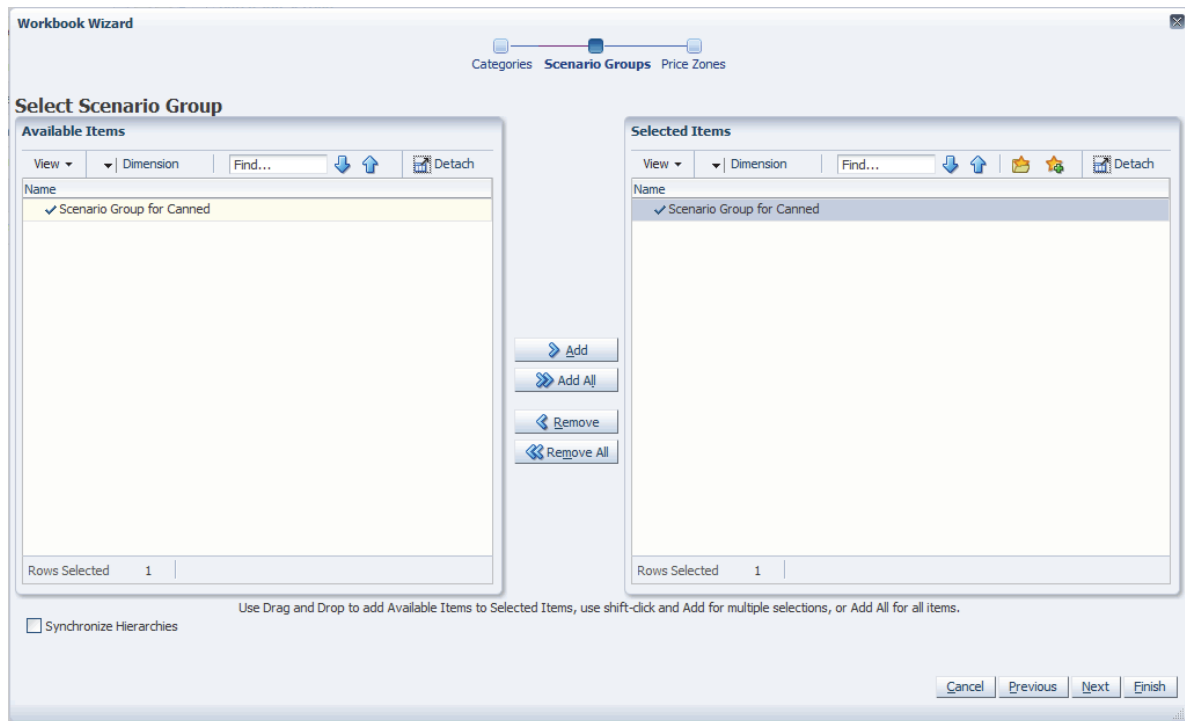
1. Click the **New Workbook** icon in the Scenario Management task.

Figure 3–1 Scenario Management Task

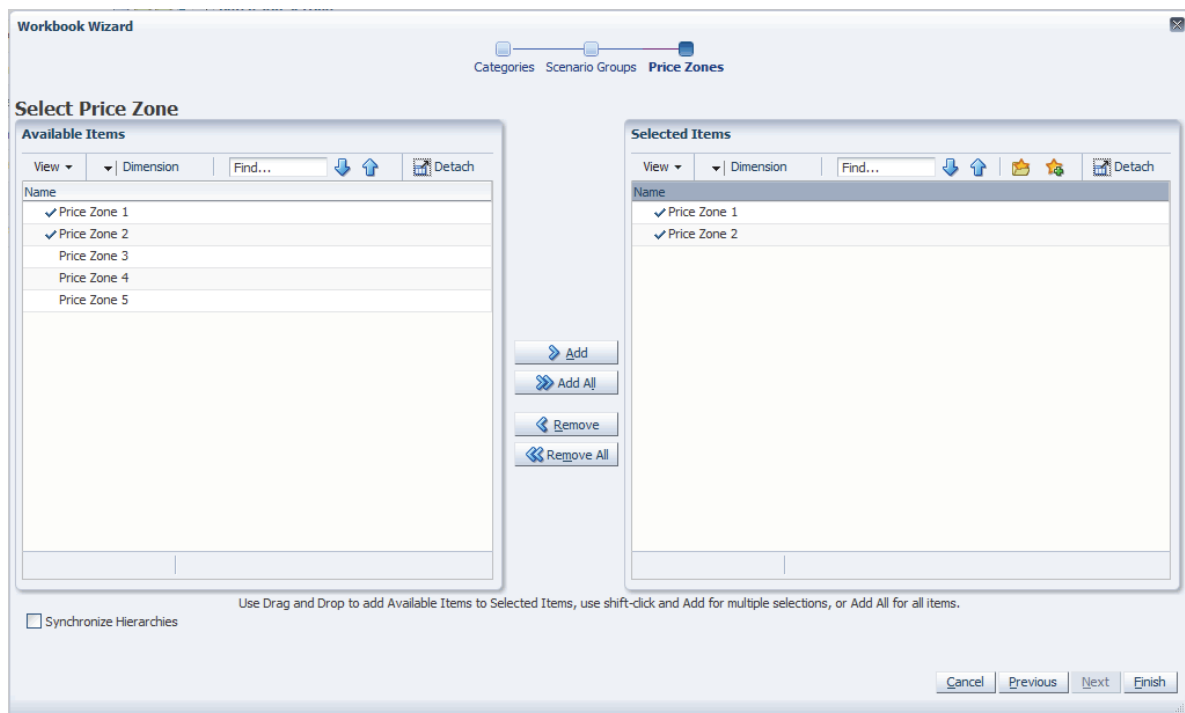
2. The Scenario Management wizard opens. Select the categories you want to work with and click **Next**.

Figure 3–2 Scenario Management Wizard: Select Category

3. Select the scenario groups you want to work with and click **Next**.

Figure 3–3 Scenario Management Wizard: Select Scenario Group

4. Select the price zones you want to work with and click **Finish**.

Figure 3–4 Scenario Management Wizard: Select Price Zone

The Scenario Management workbook is built.

Scenario - Calendar Assignment Step

This step includes one view: Scenario Setting.

Scenario Setting View

Use this view to set the time periods and enter descriptions for the scenarios that were loaded in the load process. These descriptions appear in the Price Analysis wizard (Figure 5-2). Entering a useful description here will help you to select the scenarios in the [Price Analysis](#) task.

Figure 3-5 Scenario Setting View

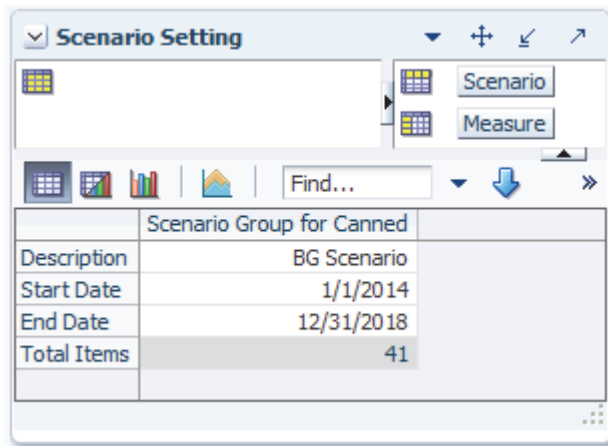


Table 3-1 lists the measures in this view.

Table 3-1 Scenario Setting View Measures

Measure	Description
Description	Use this measure to enter a short, useful description of the scenario. This description appears in the Price Analysis wizard (Figure 5-2).
Start Date	The first day of the planning period.
End Date	The last day of the planning period.
Total Items	The number of items in the scenario. This is a read-only measure used for reference only.

After you have defined the time period and description for each scenario, continue to the [Scenario - Item Assignment Step](#) to assign items to the scenario.

Scenario - Item Assignment Step

This step has one view: Select Items.

Select Items View

Use this view to assign items to the scenario group. When this scenario is selected in the [Price Analysis](#) task, the items selected here will be analyzed for price optimization.

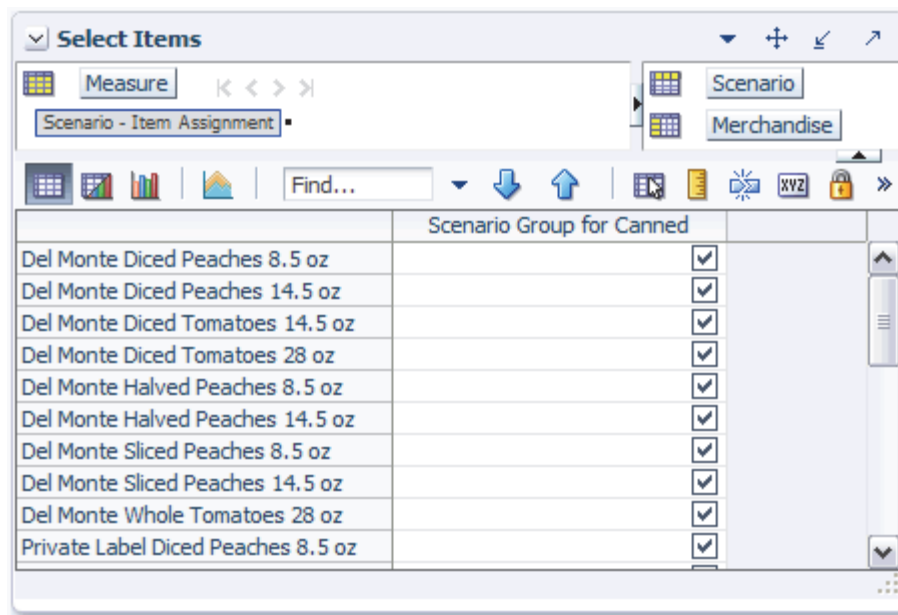
Figure 3–6 Select Items View

Table 3–2 lists the measures in this view.

Table 3–2 Select Items View Measures

Measure	Description
Scenario - Item Assignment	Use this measure to select items to belong in the scenario.

After you have selected the items for the scenario group, continue to the [Scenario - Location Assignment Step](#) to assign price zones to the scenario.

Scenario - Location Assignment Step

This step has one view: Select Locations.

Select Locations

Use this view to assign price zones to the scenario group. When this scenario is selected in the [Price Analysis](#) task, the price zones selected here will be analyzed for price optimization.

Figure 3-7 Select Locations View

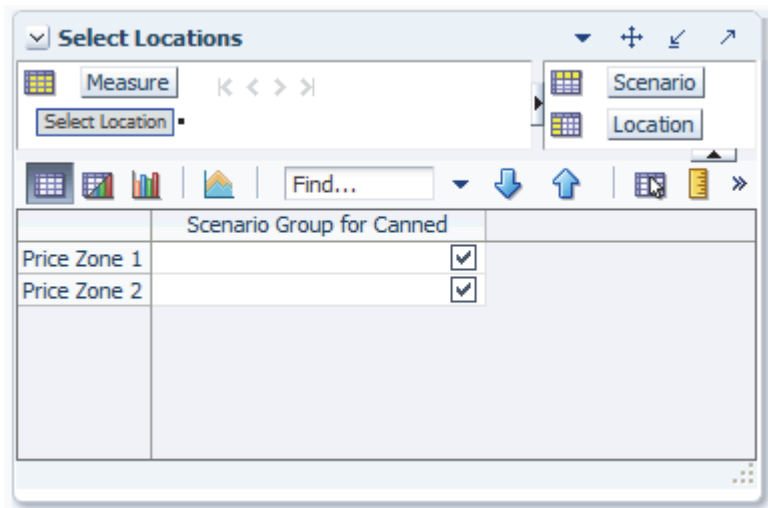


Table 3-3 lists the measures in this view.

Table 3-3 Select Locations View Measures

Measure	Description
Select Location	Use this measure to select price zones to belong to the scenario.

Scenario - Competitor Assignment Tab

This tab has one worksheet: Selected Competitors.

Selected Competitors

Use this worksheet to select relevant competitors for these scenarios.

Figure 3-8 Selected Competitors Worksheet



Workflow for the Selected Competitor Measure

As we have seen, a scenario is the combination of item, locations, time frame, and business rules that RPO is considering when making price recommendations. Sometimes, the business rules involve competitor prices, and you are prompted to select a competitor. However, there can be multiple competitors, and ranging down

their number is a big help. Moreover, a retailer may compete with certain retailers in some categories, and with others in totally different business areas.

To address this fact, you can select certain competitors at the scenario level. Select the competitors that you know are relevant for the items and locations in the scenario. After committing, every time you work with the scenario where the list of competitors was reduced, you will only see the relevant competitors.

For example, build the Price Analysis workbook. In the Competition Constraints tab there are two sheets. In the Item Group Level view, when you select the Competitor, the list only displays the ones selected in the Scenario Management workbook. The Competition Item metrics only displays information for the selected competitors as well.

Note: Besides the selected competitors, RPO always displays the min, max, and average prices of the selected competitors.

Figure 3–9 Select Competitor List



Post Scenario Management

After you have defined the time period, items, and price zones for the scenarios, commit the Scenario Management workbook. Or, you can save the workbook and work with it later. Then, build the [Item Management](#) task to define the relationships among items and create item groups.

Item Management

The Item Management task is used to define relationships among items and to create item groups. These relationships and groups are key to creating constraints in the [Price Analysis](#) task. This task contains three steps:

- [Item Comparison Linkage Step](#)
- [Like Item Step](#)
- [Item Group Step](#)

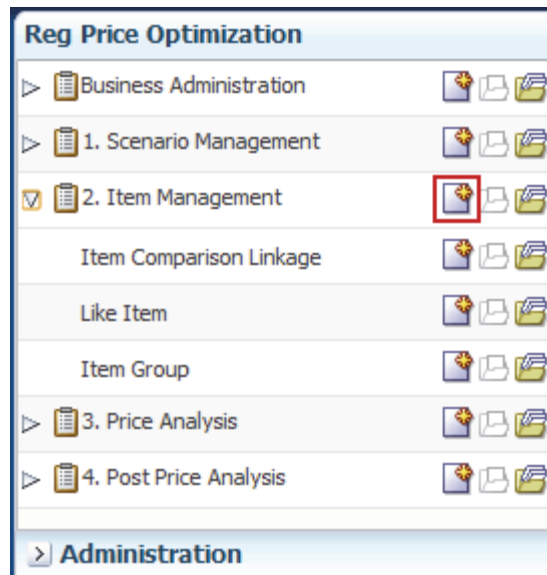
After completing these steps, refer to [Post Item Management](#).

Building the Item Management Workbook

To build the Item Management workbook, perform the following steps:

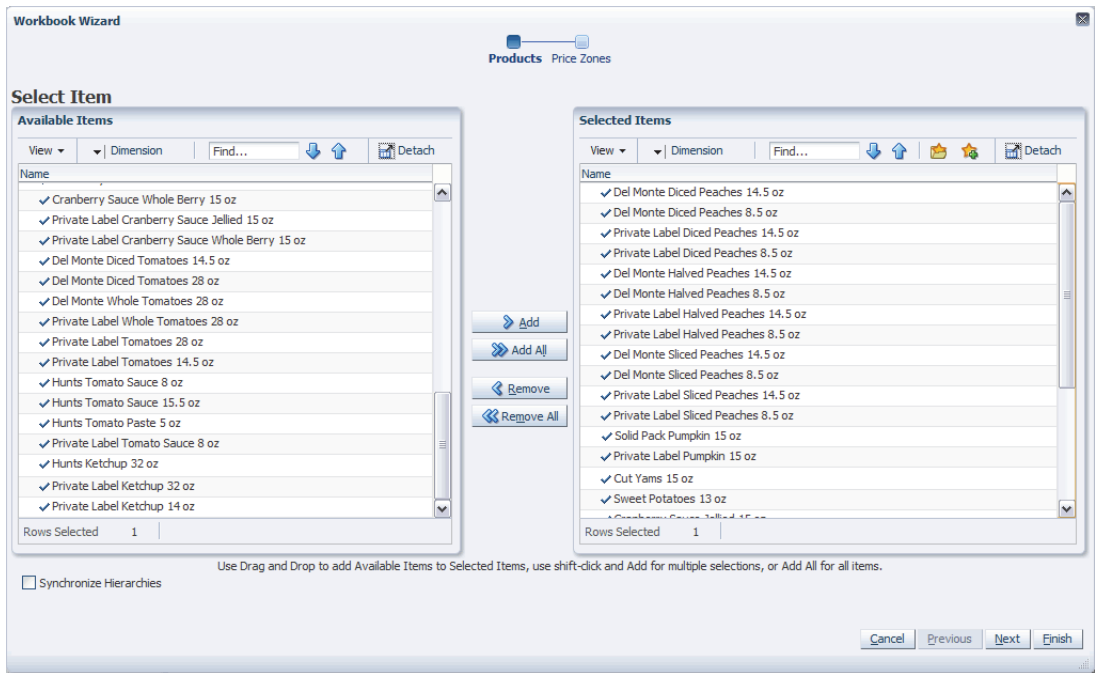
1. Click the **New Workbook** icon in the Item Management task.

Figure 4–1 Item Management Task



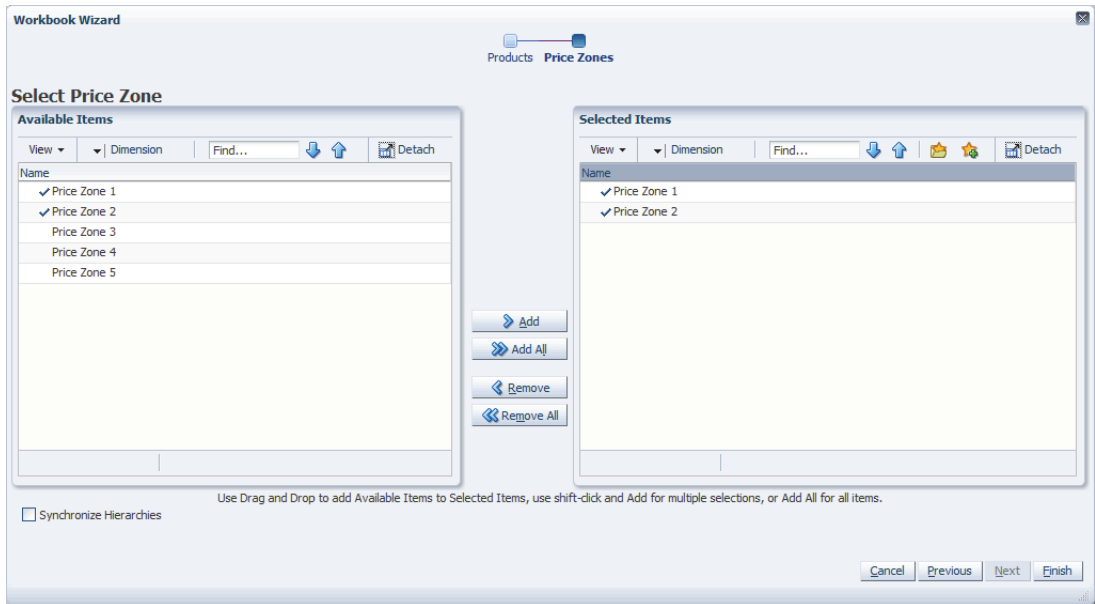
2. The Item Management wizard opens. Select the items to include in the workbook. These items should include both the new items and the like items that you wish to associate the new items with. Click **Next**.

Figure 4–2 Item Management Wizard: Select Item



3. Select the price zones that you want to work with and click **Finish**.

Figure 4–3 Item Management Wizard: Select Price Zone



The Item Management workbook is built.

Item Comparison Linkage Step

This step contains one view: Item Linkage.

Item Linkage View

Use this view to link items that have a relationship with other items. After items are linked, you can create constraints and rules in the [Price Analysis](#) task based on those links. For instance, if you link Diced Peaches 8.5 oz. to Sliced Peaches 8.5 oz. in this view (as shown in [Figure 4-4](#)), you can create a rule in the Price Analysis workbook that specifies that these two items should always have the same price.

To link an item to another, select the boolean measure at the intersection of the item in the Merchandise dimension and an item in the RHS (Right Hand Side) Merchandise dimension. After you have finished linking items, continue to the [Like Item Step](#).

Note: The items in the RHS Merchandise dimension only represent the items in the Merchandise dimension, they are not the true items. Therefore, linking Item A in the Merchandise dimension and Item B in the RHS dimension does not automatically link Item B in the Merchandise dimension and Item A in the RHS dimension.

Figure 4-4 Item Linkage View

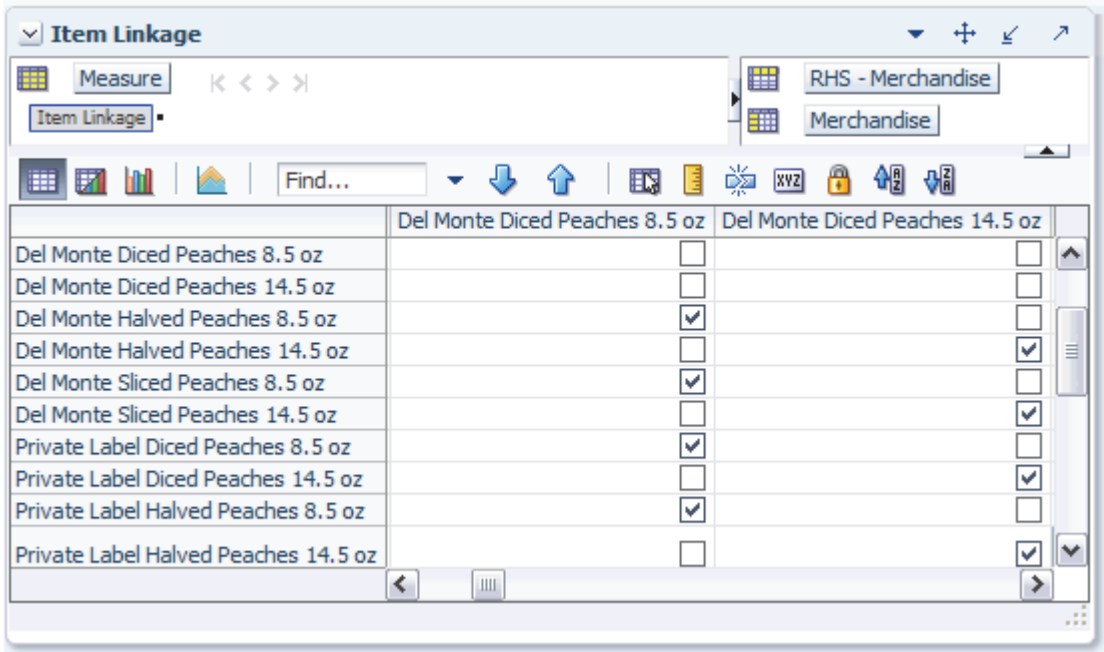


Table 4-1 lists the measures in this view.

Table 4-1 Item Linkage View Measure

Measure	Description
Item Linkage	Use this measure to link items in the Merchandise dimension to items in the RHS Merchandise dimension.

Like Item Step

This step contains one view: Like Items.

Like Items View

Use this view to assign like items to new items and to specify the like item's parameters to apply to the new item. You can apply the like item's cost, price, base demand, or demand group to the new item. The new item's self elasticity measure is pre-populated with the value obtained from the lowest possible escalation levels inside RPO.

However, you may choose to override that value with the elasticity of a like item. The like item functionality is useful if you have a new item with no sales history that is expected to perform in the same way as an existing item.

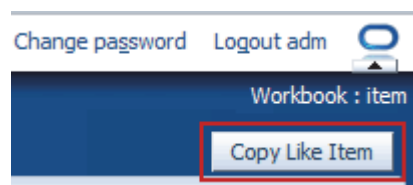
Figure 4–5 Like Items View

	Carb Control	Carb Control	Carb Control	Carb Control	Fruit in the	Fruit in the	Fruit in the
Like-Item							
Copy Base Demand	☐	☐	☐	☐	☐	☐	☐
Copy Cost	☐	☐	☐	☐	☐	☐	☐
Copy Price	☐	☐	☐	☐	☐	☐	☐
Copy Price Elasticity	☐	☐	☐	☐	☐	☐	☐
Item Self Elasticity	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Elasticity - Item /Chain	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Elasticity - Class /Price Zone	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Elasticity - Class /Chain	0.00	0.00	0.00	0.00	0.00	0.00	0.00
In Scenario(s)?	☐	☐	☐	☐	☐	☐	☐
Elasticity Source	APC-RPO	APC-RPO	APC-RPO	APC-RPO	APC-RPO	APC-RPO	APC-RPO
Assigned Like-Item							
Assigned On							
Assigned By							

To assign like items:

1. Locate the item that needs a like item in the Merchandise dimension. In the intersection of that item and the Like-Item measure, double-click the cell.
2. A drop-down list of items appears. Select the item to use as the like item.
3. Select the attributes of the like item that you want to use. You can choose one or more of the following options: Copy Base Demand, Copy Cost, Copy Price, and Copy Price Elasticity. (For the descriptions of these options, see [Table 4–2](#).)
4. After you have mapped all the like items and like price zones to the new items, click **Copy Like Item**.

Figure 4–6 Copy Like Item



5. From the File menu, select **Commit**.

Table 4–2 lists the measures in this view.

Table 4–2 Like Items View Measures

Measure	Description
Assigned By	This is a read-only measure that displays the user who assigned the like item to the item.
Assigned Like-Item	This is a read-only measure that displays the like item that was assigned to the item.
Assigned On	This is a read-only measure that displays the date that the like item was assigned to the item.
Copy Base Demand	Use this measure to copy the like item's forecast to the new item.
Copy Cost	Use this measure to copy the like item's cost to the new item.
Copy Price	Use this measure to copy the like item's price to the new item.
Copy Price Elasticity	Use this measure to copy the like item's price elasticity for the new item. The price elasticity is calculated in APC-RPO. Note: When copying elasticities for new items, only cross-item elasticities for items that are included in the workbook are copied.
Elasticity - Class/Chain	This is a read-only measure that displays the elasticity from the class/chain escalation level.
Elasticity - Class/Price Zone	This is a read-only measure that displays the elasticity from the class/price zone escalation level.
Elasticity - Item/Chain	This is a read-only measure that displays the elasticity from the item/chain escalation level.
Elasticity Source	This is a read-only measure that displays where the self elasticity is coming from. The default options are: ■ APC-RPO: The elasticity is calculated in APC-RPO and imported in RPO. This item is very likely not new, but rather a candidate for like item. ■ Like-Item: The elasticity is calculated by assigning a like item and running the Copy Like Item custom menu. ■ Escalation from Item: The elasticity is calculated in the RPO batch and the item/chain level elasticity is used. ■ Escalation from Class/Price Zone: The elasticity is calculated in the RPO batch and the class/price zone level elasticity is used. ■ Escalation from Class: The elasticity is calculated in the RPO batch and the class/chain level elasticity is used. Note: These options are configurable through Configuration Tools.
In Scenario(s)?	This is a read-only measure that displays whether the item is in a scenario. Items are assigned to scenarios in the Select Items View in the Scenario Management task.

Table 4–2 (Cont.) Like Items View Measures

Measure	Description
Item Self Elasticity	This is a read-only measure that displays the self elasticity of an item. While running the batch, RPO checks for items with zero self elasticity. If it finds such items, it automatically assigns a value obtained from the lowest possible escalation levels inside RPO. This value can be overridden by assigning a like item, enabling the Copy Price Elasticity measure for that item, and running the Copy Like Item custom menu.
Like-Item	Use this measure to select the like item you want to associate with the new item.

After you have assigned like items and like price zones to the new items, continue to the [Item Group Step](#).

Item Group Step

This step contains one view: Item Group.

Item Group View

Use this view to select the items you want to assign to the item groups that were loaded in the batch load. By assigning items to an item group, you can treat a group of items similarly by applying a constraint to the item group in the [Price Analysis](#) task. This is easier and faster than applying constraints to each item individually.

For instance, you can assign all canned peaches items to Item Group 01. Then, in the Price Analysis workbook, you can create a constraint that applies to the entire group.

Note: All items within item groups must exist in the same domain.

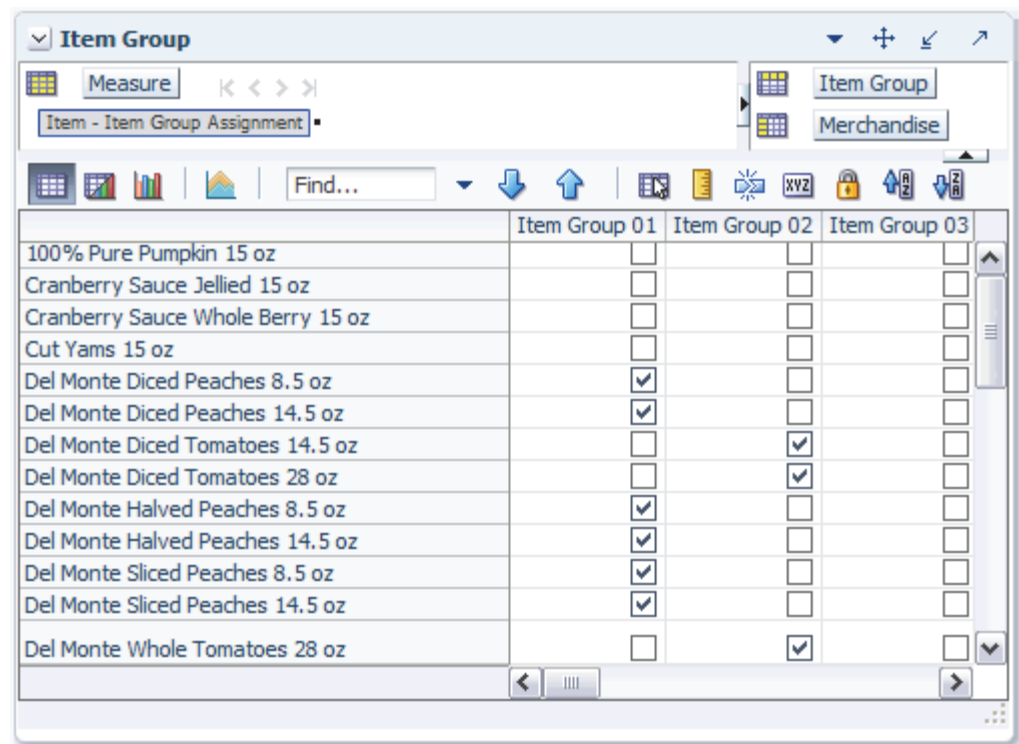
Figure 4-7 Item Group View

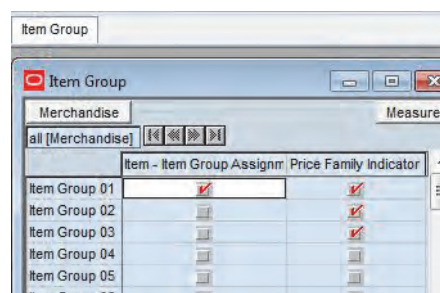
Table 4-3 lists the measures in this view.

Table 4-3 Item Group View Measures

Measure	Description
Item - Item Group Assignment	Use this measure to assign items to an item group.
Price Family Indicator	This measure indicates if items in an item group should be treated as price family. For additional information, see Setting an Item Group as a Price Family .

Setting an Item Group as a Price Family

Set the Price Family Indicator to indicate if items in an item group should be treated as price family.

Figure 4-8 Price Family Indicator and Item Group Assignments

For example, you want all yogurts that are the same size and brand, and only differ by flavor to be priced the same. The way to achieve this in RPO is by declaring the item group to be a price family. Perform the following steps to achieve this:

1. Assign items to an item group.

This can be done manually in the Item Management or in the Price Analysis workbooks. The relationship can also be maintained in a different system and then easily be loaded into RPO.

2. Flag the item group as a price family.

This can be done manually in the Price Analysis workbook. From the Item Constraints tab using the Item Group Level view, you can set a constraint that a group is treated as price family.

However, if the relationship is maintained outside the solution, RPO is enhanced to load a Price Family Constraint.

3. Load the item to an item group assignment and select the price family indicator.

This can be done in the Item Group worksheet within the Item Management workbook when the Merchandise hierarchy is rolled up to All Items. If the relationship is maintained outside the solution, then load the measure, FamilyInd, into the RPO domain.

4. When you are ready to set price family constraints, go to the Price Analysis workbook. When the custom menu, Seed Price Family, is run, it automatically creates the constraints that specify which item groups are treated as price family.
5. To validate, go to the Item Group Level view from the Item constraints tab and then scroll down to the bottom of the sheet. The last constraints should display the Item Groups and the Treat as Price Family measure as selected. The Note fields should display, SEEDED.

Note: RPO uses the last constraints for this automated task so any interference is minimized when creating constraints,

Post Item Management

After you have assigned items to an item group, save and commit the workbook. Next, build the [Price Analysis](#) task.

Price Analysis

The Price Analysis task is used to optimize prices for the scenarios you have created in the [Business Administration](#), [Scenario Management](#), and [Item Management](#) tasks. Using this task, you can specify pricing constraints, optimize prices, override recommendations, specify business goals, and analyze the effect of price changes on decision variables such as gross margin and revenue.

The Price Analysis task contains the following steps:

- [Scenario Goals and Constraints Step](#)
- [Priority Setting Step](#)
- [Item Constraints Step](#)
- [Inter-Item Constraints Step](#)
- [Competition Constraints Step](#)
- [Optimization Dashboard Step](#)
- [Recommendations and What-If Step](#)
- [Miscellaneous Step](#)

The basic workflow of this task is described as follows:

1. Choose the business goals you want to optimize in the [Scenario Goals and Constraints Step](#). Override the scenario goals and objectives at the item group level in the [Scenario Goals and Constraints Override View](#).
2. Set the general and competition constraint priorities for the scenario you are analyzing in the [Priority Setting Step](#).
3. Enter specific constraints in the [Item Constraints Step](#), [Inter-Item Constraints Step](#), and [Competition Constraints Step](#).
4. Review the optimization results in the [Optimization Dashboard Step](#).
5. Make adjustments and create What-if simulations in the [Recommendations and What-If Step](#). Select and approve the scenario to use.

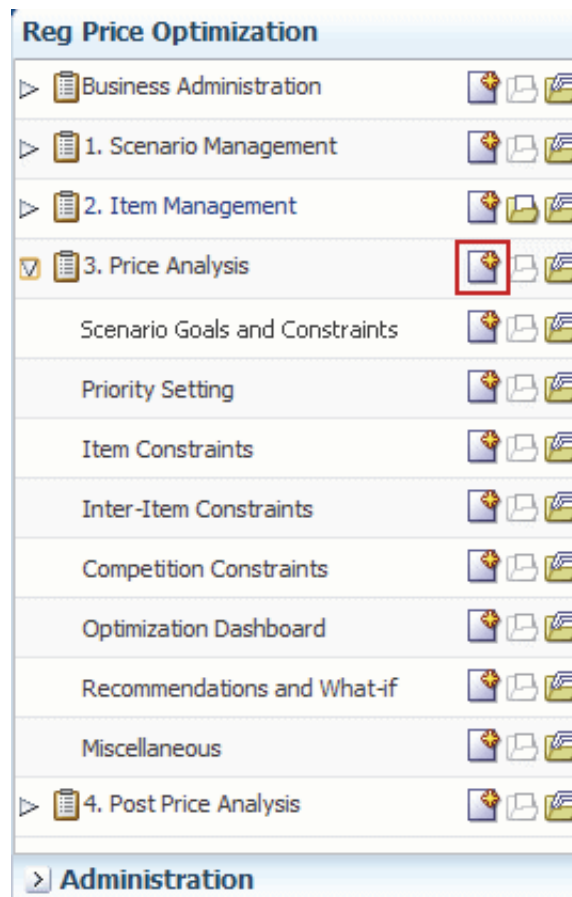
Building the Price Analysis Workbook

To build the Price Analysis workbook, perform the following steps:

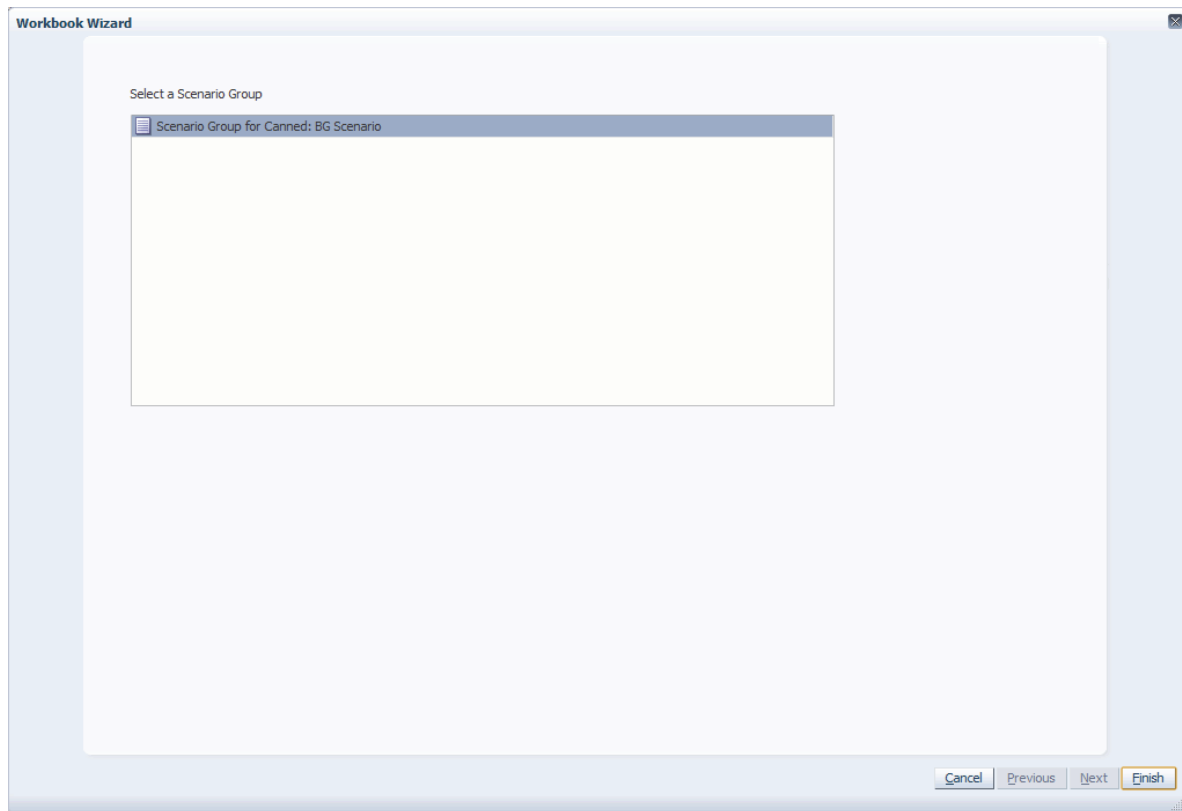
Notes:

- The Price Analysis workbook cannot be built in the master domain.
- You must have a scenario created to build a Price Analysis workbook.

1. Click the **New Workbook** icon in the Price Analysis task.

Figure 5–1 Price Analysis Task

2. The Price Analysis wizard opens. Select the scenario group you want to optimize. All scenarios belonging to a particular scenario group are included in the workbook. The scenarios contain the item, location, and calendar information that you specified for it in the [Scenario Management](#) task. Click **Finish**.

Figure 5–2 Price Analysis Wizard: Select Scenario Group

The Price Analysis workbook is built.

Scenario Goals and Constraints Step

This step contains these views:

- [Scenario Goals and Constraints View](#)
- [Scenario Goals and Constraints Override View](#)

Scenario Goals and Constraints View

Use this worksheet to choose the parameters you want to optimize for the scenario. For instance, if you want to optimize the Max Revenue scenario to return the most revenue while maintaining at least 75% of the original Gross Margin and 80% of the original volume, you would select Revenue as the Goal for Full Optimization and set the Gross Margin and volume objectives.

Figure 5–3 Scenario Goals and Constraints View

Measure	Value
Optimization Capacity	Full Optimization
Goal for Full Optimization	Volume
Min Gross Margin (Absolute)	
Min Gross Margin (% of Original)	95.00%
Min Revenue (Absolute)	
Min Revenue (% of Original)	
Min Volume (Absolute)	
Min Volume (% of Original)	
CPI (Absolute)	
CPI (% of Original)	
Max # Price Changes (Absolute)	
Max # Price Changes (% of Total Prices)	
Price Drift	Unrestricted
Original Gross Margin	\$29,256.58
Original Gross Margin %	32.76%
Original Revenue	\$89,314.58
Original Volume	22,242.00
Original CPI	94.67
Active Item Number	48

Table 5–1 lists the measures in this view.

Table 5–1 Scenario Goals and Constraints View Measures

Measure	Description
Active Item Number	This measure displays the number of active items included in the scenario. An item is considered to be active if the original price of the item is not zero, and the item has non-zero forecast. RPO only recommends prices for active items.
CPI (% of Original)	CPI (Competitive Price Index) represents the ratio of revenue that would be generated by a pricing scenario's pricing to the average pricing of competitor items. CPI is expressed to the base of 100%, where 100% represents the current ratio. For example, for a 10% improvement against a competitor, enter 110%. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
CPI (Absolute)	CPI (Competitive Price Index) represents the revenue that would be generated by a pricing scenario's pricing to the average pricing of competitor items. CPI is expressed as a dollar amount difference between your revenue and the revenue based on your competitor's price. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.

Table 5–1 (Cont.) Scenario Goals and Constraints View Measures

Measure	Description
Goal for Full Optimization	When Full Optimization is chosen for the Optimization Capacity measure, use this measure to select the goal. Options are Gross Margin, Revenue, Volume, and CPI (Competitive Price Index). If you select Price Simulation or Rule Management as the Optimization Capacity, you do not have to set this measure.
Max # of Price Changes (% of Total Prices)	Stores the entry for the maximum number of price change recommendations that RPO is allowed to make. This value is treated as a percent and should never be greater than 100. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Max # of Price Changes (Absolute)	Stores the entry for the maximum number of price change recommendations that RPO is allowed to make. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Min Gross Margin (% of Original)	Stores the entry for the minimum gross margin that you want RPO to achieve. The minimum percentage is expressed to the base of 100%, where 100% is calculated using the current price. If a 10% improvement is desired, the user should enter 110%. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Min Gross Margin (Absolute)	Stores the entry for the minimum gross margin dollars that you want RPO to achieve. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Min Revenue (% of Original)	Stores the entry for the minimum revenue that you want RPO to achieve. The minimum percentage is expressed to the base of 100%, where 100% is calculated using the current price. If a 10% improvement is desired, enter 110%. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Min Revenue (Absolute)	Stores the entry for the minimum revenue that you want RPO to achieve. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Min Volume (% of Original)	Stores the entry for the minimum volume that you want RPO to achieve. The minimum percentage is expressed to the base of 100%, where 100% is calculated using the current price. If a 10% improvement is desired, the user should enter 110%. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Min Volume (Absolute)	Stores the entry for the minimum volume that you want RPO to achieve. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Optimization Capacity	Options are Full Optimization, Price Simulation, and Rule Management.
Original CPI	This is a read-only measure that displays the current Competitor Price Index (CPI).
Original Gross Margin	This is a read-only measure that displays the gross margin based on the current prices.
Original Gross Margin %	This is a read-only measure that displays the gross margin expressed as a percentage ratio of (revenue - cost)/revenue, based on the current prices.
Original Revenue	This is a read-only measure that displays the revenue based on the current prices.
Original Volume	This is a read-only measure that displays the volume based on the current prices.
Linkage More	Specifies the way to link two items. The options are One Way and Two Way. If Two Way is selected, when item AA is linked to item BB, item BB is automatically linked to item AA. This is also the default behavior. The One Way option makes the linkage unidirectional. Note that this measure may be hidden.

Scenario Goals and Constraints Override View

Use this view to choose the metrics you want to optimize for certain item groups. For instance, the scenario goal may be to optimize the volume, while maintaining at least 80% of the original margin. For item group 1 you can specify the goal to be revenue, while maintaining 90% margin. There is no restriction on how many item groups can have the goals and objectives overwritten.

Note: A given item cannot be part of two item groups that each have their goals overwritten.

After selecting the optimization goal and entering constraints, continue to the [Priority Setting Step](#).

Figure 5–4 Scenario Goals and Constraints Override View

	Item Group1	Item Group2	Item Group3	Item Group4	Item Group5
Group Level Goal	Revenue	Revenue	Revenue	Revenue	Revenue
Group Level Min Gross Margin					
Group Level Min Gross Margin (% of Current)					
Group Level Min Revenue					
Group Level Min Revenue (% of Current)					
Group Level Min Volume					
Group Level Min Volume (% of Current)					
Group Level CPI					
Group Level CPI (% Better than Competitor)					
Override Global Goal or Constraints	No	No	No	No	No
Original Gross Margin	\$62.15				
Original Gross Margin %	22.57%				
Original Revenue	\$275.40				
Original Volume	60.00				
Original CPI					
Active Item Number	2	0	0	0	0

Table 5–2 lists the measures in this view.

Table 5–2 Scenario Goals and Constraints Override View Measures

Measure	Description
Active Item Number	This measure displays the number of active items in the selected item group. An item is considered to be active if the original price of the item is not zero, and the item has non-zero forecast. RPO only recommends prices for active items.
Group Level CPI	This measures represents the revenue that would be generated by pricing recommendations for an item group to the average pricing of competitor items. Group Level CPI is expressed as a dollar amount difference between your revenue and the revenue based on your competitor's price for the selected item group. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Group Level CPI (% Better than Competitor)	This measure represents the ratio of revenue that would be generated by pricing recommendations for an item group to the average pricing of competitor items. CPI is expressed to the base of 100%, where 100% represents the current ratio. For example, for a 10% improvement against a competitor, enter 110%. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Group Level Goal	When Full Optimization is chosen for the Optimization Capacity measure, use this measure to select the item group goal. Options are Gross Margin, Revenue and Volume. If you select Price Simulation or Rule Management as the Optimization Capacity, the content of this measure does not affect the price recommendations.
Group Level Min Gross Margin	Stores the entry for the minimum gross margin dollars that you want RPO to achieve for the selected item group. If this measure is empty for a certain intersection, the cell has a not applicable value but is not displayed in the user interface.
Group Level Min Gross Margin (% of Current)	Stores the entry for the minimum gross margin that you want RPO to achieve for the selected item group. The minimum percentage is expressed to the base of 100%, where 100% is calculated using the current price. If a 10% improvement is desired, the user should enter 110%. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Group Level Min Revenue	Stores the entry for the minimum revenue that you want RPO to achieve for the selected item group. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Group Level Min Revenue (% of Current)	Stores the entry for the minimum revenue that you want RPO to achieve for the selected item group. The minimum percentage is expressed to the base of 100%, where 100% is calculated using the current price. If a 10% improvement is desired, enter 110%. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Group Level Min Volume	Stores the entry for the minimum volume that you want RPO to achieve for the selected item group. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Group Level Min Volume (% of Current)	Stores the entry for the minimum volume that you want RPO to achieve for the selected item group. The minimum percentage is expressed to the base of 100%, where 100% is calculated using the current price. If a 10% improvement is desired, the user should enter 110%. If this measure is empty for a certain intersection, the cell has a not applicable value that is not displayed in the user interface.
Original CPI	This is a read-only measure that displays the current Competitor Price Index (CPI) for the items in the selected item group.

Table 5–2 (Cont.) Scenario Goals and Constraints Override View Measures

Measure	Description
Original Gross Margin	This is a read-only measure that displays the gross margin based on the current prices, realized by the items in the selected item group.
Original Gross Margin %	This is a read-only measure that displays the gross margin expressed as a percentage ratio of (revenue - cost)/revenue, based on the current prices, for the items in the selected item group.
Original Revenue	This is a read-only measure that displays the revenue based on the current prices, realized by the items in the selected item group.
Original Volume	This is a read-only measure that displays the volume based on the current prices, realized by the items in the selected item group.
Override Scenario Goal or Constraints	This measure enables or disables the override functionality for an item group. A setting of 'No' means that no override will happen, while a setting of 'Yes' will enable the functionality. For instance, even if the Group Level Goal has an entry, and values are entered for various metrics, no override is considered during the optimization unless this measure is set to 'Yes'.

Priority Setting Step

The Priority Settings step allows you to set priority levels for business rules and competitor price constraints for each scenario and price zone level. These priority levels override the scenario priorities you set for all scenarios and price zones in the [Business Administration](#) task. For more information about how priority levels work, see the [Default Priority Setting View](#) section.

There are two views contained within this step:

- [General Priority View](#)
- [Competition Priority View](#)

General Priority View

This view allows you to set specific priority levels for each scenario. These priority levels can differ and will override the priority levels you set for all scenarios in the [Business Administration](#) task, which are represented by the read-only default measures in this view.

Note: Constraints set to Priority 1 must be met. If RPO is unable to satisfy any Priority 1 constraints, the optimization run returns with an "Infeasible" result, meaning that no satisfactory solution can be found.

After you have set the general priority levels for each scenario, continue to the [Competition Priority View](#).

Figure 5–5 General Priority View

	Price Zone 1	Price Zone 2
Inter Item Priority	Priority 3	Priority 3
Margin Priority	Priority 2	Priority 2
Max Percentage Price Change Priority	Priority 3	Priority 3
Min/Max Price Priority	Priority 3	Priority 3
Price Family Priority	Priority 2	Priority 2
Price Hold Priority	Priority 2	▼
Default Inter Item Priority	Priority 1	Priority 1
Default Margin Priority	Priority 2	Priority 2
Default Max Percentage Price Change Priority	Priority 2	Priority 3
Default Min/Max Price Priority	Priority 2	Priority 4
Default Price Family Priority	Priority 2	Priority 5
Default Price Hold Priority	Priority 2	Priority 6
		Priority 7
		Priority 8
		Priority 9
		Priority 10
		No Priority

Table 5–3 lists the measures in this view.

Table 5–3 General Priority View Measures

Measure	Description
Inter Item Priority	Use this measure to set the priority for the inter-item constraint. Inter-item constraints define the relationship between two items. For instance, the relationship between the prices of a brand name item and the same private label item.
Margin Priority	Use this measure to set the priority for the margin constraint.
Max Percentage Price Change Priority	Use this measure to set the priority for the max percentage price change. The maximum percentage price change constraint defines how much or how little change is allowed between the original price and the recommended price.
Max/Min Price Priority	Use this measure to set the priority for the max/min price constraint.
Price Family Priority	Use this measure to set the priority for the price family constraint. A price family is a group of items that have the same price.
Price Hold Priority	Use this measure to set the priority for the price hold. Setting a price hold on an item means that you do not want RPO to change that item's price.
Default Inter Item Rule Priority	The default priority setting for the inter-item constraint. This was set up in the Default Priority Setting View .
Default Margin Rule Priority	The default priority setting for the margin constraint. This was set up in the Default Priority Setting View .
Default Max Percentage Price Change Priority	The default priority setting for the max percentage price change constraint. This was set up in the Default Priority Setting View .

Table 5–3 (Cont.) General Priority View Measures

Measure	Description
Default Max/Min Price Priority	The default priority setting for the max/min price constraint. This was set up in the Default Priority Setting View .
Default Price Family Priority	The default priority setting for the price family constraint. This was set up in the Default Priority Setting View .
Default Price Hold Priority	The default priority setting for the price hold constraint. This was set up in the Default Priority Setting View .

Competition Priority View

The Competition Priority view allows you to specify which competitor takes priority in the price optimization. Note that you can give the same priority to more than one competitor.

Use the Competition Priority measure to set priorities for specific competitors or competitor metrics. As a reference, the default measures display the general priority that you set in the [Default Priority Setting View](#) in the [Business Administration](#) task.

Note: Constraints set to Priority 1 must be met. If RPO is unable to satisfy any Priority 1 constraints, the optimization run returns with an "Infeasible" result, meaning that no satisfactory solution can be found.

Figure 5–6 Competition Priority View

	Competition Priority	Default Competition Priority
@Average Competitor Price		Priority 2
@Max Competitor Price		Priority 2
@Min Competitor Price		Priority 2
J Mart	Priority 1	Priority 2
Smith	Priority 1	Priority 2

[Table 5–4](#) lists the measures in this view.

Table 5–4 Competition Priority View Measures

Measure	Description
Competition Priority	Allows you to specify which competitor takes priority in the price optimization.
Default Competition Priority	This read-only measure displays the priority level you set for all competitors in general in the Default Priority Setting View .

After you have set the priority levels for the competition metrics, continue to the [Item Constraints Step](#) to set up the business rules for price optimization.

Item Constraints Step

This step is used to create item constraints for items and item groups. It contains two views:

- [Item Group Level View](#)
- [Item Level View](#)

Item Group Level View

Use this view to create constraints for item groups. For instance, if you had an item group of all 8.5 oz. canned peaches, you could create a constraint that defines a minimum price of \$1.00. This constraint would be applied to every item in that item group. You can create more specific constraints by specifying classes, sub categories, or brands, or even classes, subcategories, and brands within an existing item group.

Figure 5–7 *Item Group Level View*

The screenshot shows the 'Item Group Level' view in a software application. At the top, there are tabs for 'Location' and 'Scenario', with 'Scenario 001' selected. Below this is a 'Find...' search bar and a toolbar with various icons. The main area is a table with columns for item groups (C00001, C00002, C00003, C00004) and rows for various constraints. The table is titled 'Item Group Constraint' and 'Measure'.

	C00001	C00002	C00003	C00004
Note				
Price Hold	☐	☐	☐	
Item				
Class				
Sub Category				
Brand				
Selected Item Group				
Treat as Price Family	☐	☐	☐	
Apply Min/Max Price	☐	☐	☐	
Min Price				
Max Price				
Default Price Constraint Priority	Priority 4	Priority 4	Priority 4	Priority 4
Price Constraint Priority	Default	Default	Default	Default
Apply Min/Max Margin	☐	☐	☐	
Min Margin				
Max Margin				
Default Margin Constraint Priority	Priority 4	Priority 4	Priority 4	Priority 4
Margin Constraint Priority	Default	Default	Default	Default
Apply Max % Price Change	☐	☐	☐	
Max % Price Down	30.00%	30.00%	30.00%	
Max % Price Up	30.00%	30.00%	30.00%	
Default Max % Price Change Priority	Priority 4	Priority 4	Priority 4	Priority 4
Max % Price Change Priority	Default	Default	Default	Default
Message				

Table 5–6 lists the measures in this view.

Table 5–5 Item Group Level View Measures

Measure	Description
Apply Max % Price Change	Select this option to allow the price constraints to be applied.
Apply Min/Max Margin	Select this option to apply the margin constraints to be applied.
Apply Min/Max Price	Select this option to apply minimum and maximum price constraints. If selected, you must enter values for the minimum and maximum price.
Brand	Use this measure to select a specific brand to apply the constraint to.
Class	Select a specific product class to apply the constraint to.
Default Margin Constraint Level	This read-only measure displays the default priority level that you set for the margin constraint in the Default Constraint Priority Setting Step .
Default Max % Price Change Level	This read-only measure displays the default priority level that you set for the maximum percentage price change constraint in the Default Constraint Priority Setting Step .
Default Price Constraint Level	This read-only measure displays the default priority level you set for the price constraint in the Default Constraint Priority Setting Step .
Item	Select a specific item to apply the constraint to.
Margin Constraint Priority	Use this measure to override the default priority level for the margin constraint. The default priority level is displayed in the Default Margin Constraint Level measure.
Max % Price Change Priority	Use this measure to override the default priority level for the price change constraint. The default priority level is displayed in the Default Max % Price Change Level measure.
Max % Price Down	The maximum percentage that the price can be decreased.
Max % Price Up	The maximum percentage that the price can be increased.
Max Margin	Use this measure to set the maximum margin allowed for an item.
Max Price	Use this measure to set the maximum price allowed for an item.
Message	After RPO has run the optimization, this measure displays any rule relaxations or violations that occurred for the constraint.
Min Margin	Use this measure to set the minimum margin allowed for an item.
Min Price	Use this measure to set the minimum price allowed for an item.
Note	Use this measure to create a description of the constraint.
Price Constraint Priority	Use this measure to override the default priority level for the price constraint. The default priority level is displayed in the Default Price Constraint Level measure.
Price Hold	Select this option if you do not want the price to change.
Selected Item Group	Use this measure to select an item group to apply the constraint to. If you edited the label of the item group in the Item Group Label Override View , the edited label appears in this measure.
Sub Category	Select a specific product sub category to apply the constraint to.
Treat as Price Family	Select this option to treat the item group as a price family. If this measure is selected, all specified will have the same price.
Treat Min/Max Price as %	Select this option if the minimum and maximum prices should be treated as a percentage rather than an absolute value.

Item Level View

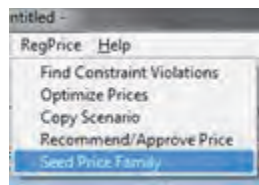
After you have created constraints for item groups, use this view to create constraints for items that do not belong to item groups. Or, you can create exceptions for items that do belong to item groups by creating specific constraints for those items.

For instance, you can create an individual item constraint for the 8.5oz diced peaches item that belongs to Item Group 01. Even though Item Group 01 has an item group constraint (as shown in [Figure 5-7](#)), the constraint you create for the item in this view overrides that item group constraint.

Figure 5-8 Item Level View

	7 GRAIN	ANYTIME	BAKLAVA	BP
Note				
Active Item?	☒	☒	☐	
Price Ladder				
Price Hold	☐	☐	☐	
Original Price	\$4.89	\$4.59	\$0.00	
Apply Min/Max Price	☐	☐	☐	
Min Price				
Max Price				
Default Price Constraint Priority	Priority 4	Priority 4	Priority 4	Pr
Price Constraint Priority	Default	Default	Default	De
Apply Min/Max Margin	☐	☐	☐	
Original Cost	\$3.96	\$3.53	\$0.00	
Min Margin				
Max Margin				
Default Margin Constraint Priority	Priority 4	Priority 4	Priority 4	Pr
Margin Constraint Priority	Default	Default	Default	De
Apply Max % Price Change	☒	☒	☒	
Max % Price Down	30.00%	30.00%	30.00%	
Max % Price Up	30.00%	30.00%	30.00%	
Default Max Price % Down	30.00%	30.00%	30.00%	
Default Max Price % Up	30.00%	30.00%	30.00%	
Default Max % Price Change Priority	Priority 4	Priority 4	Priority 4	Pr
Max % Price Change Priority	Default	Default	Default	De
Item Self Elasticity	0.00	0.00	0.00	
Self Elasticity Standard Error	0.00	0.00	0.00	
Self Elasticity T-Statistic	0.00	0.00	0.00	
Message				

When the custom menu, Seed Price Family, is run, it automatically creates the constraints that specify which item groups are treated as price family.

Figure 5–9 Seed Price Family Menu

After running the Seed Price Family custom menu, scroll down to the bottom of the sheet. The last constraints should display the Item Groups and the Treat as Price Family measure as selected. The Note fields should display, SEEDED.

Note: RPO uses the last constraints for this automated task so any interference is minimized when creating constraints.

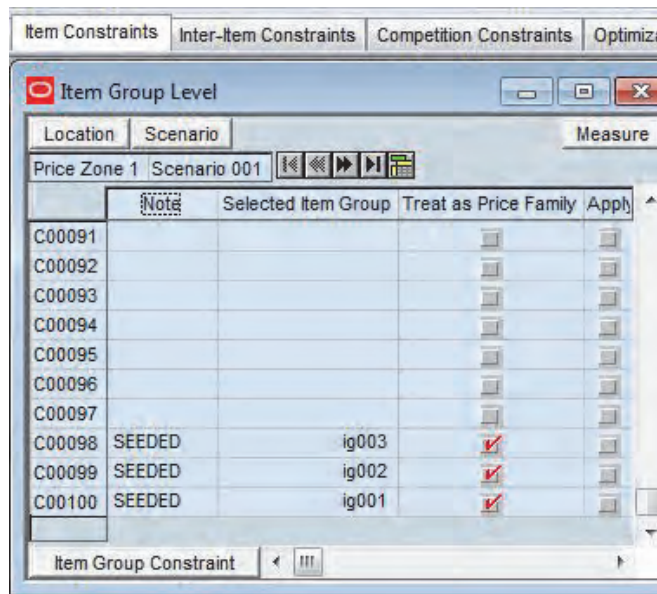
Figure 5–10 SEEDED Item Group Constraints

Table 5–6 lists the measures in this view.

Table 5–6 Item Level View Measures

Measure	Description
Active Item?	A read-only measure that displays whether an item is being considered for optimization.
Apply Max % Price Change	Select this option to allow the price constraints to be applied.
Apply Min/Max Margin	Select this option to apply the margin constraints to be applied.
Apply Min/Max Price	Select this option to apply minimum and maximum price constraints. If selected, you must enter values for the minimum and maximum price.
Default Margin Constraint Level	This read-only measure displays the default priority level that you set for the margin constraint in the Default Constraint Priority Setting Step .

Table 5–6 (Cont.) Item Level View Measures

Measure	Description
Default Max % Price Change Level	This read-only measure displays the default priority level that you set for the maximum percentage price change constraint in the Default Constraint Priority Setting Step .
Default Max Price % Down	The data in this measure is imported from the APC-RPO application. It defines the maximum price percent decrease in the history.
Default Max Price % Up	The data in this measure is imported from the APC-RPO application. It defines the maximum price percent increase in the history.
Default Price Constraint Level	This read-only measure displays the default priority level you set for the price constraint in the Default Constraint Priority Setting Step .
Item Self Elasticity	This measure displays the item's self elasticity in the given location.
Margin Constraint Priority	Use this measure to override the default priority level for the margin constraint. The default priority level is displayed in the Default Margin Constraint Level measure.
Max % Price Change Priority	Use this measure to override the default priority level for the price change constraint. The default priority level is displayed in the Default Max % Price Change Level measure.
Max % Price Down	Use this measure to set the maximum percentage that the price can be decreased.
Max % Price Up	The maximum percentage that the price can be increased.
Max Margin	Use this measure to set the maximum margin allowed for an item.
Max Price	Use this measure to set the maximum price allowed for an item.
Message	After RPO has run the optimization, this measure displays any rule relaxations or violations that occurred for the constraint.
Min Margin	Use this measure to set the minimum margin allowed for an item.
Min Price	Use this measure to set the minimum price allowed for an item.
Note	Use this measure to create a description of the constraint.
Original Cost	This read-only measure displays the original cost of the item.
Original Price	This read-only measure displays the original price of the item.
Price Constraint Priority	Use this measure to override the default priority level for the price constraint. The default priority level is displayed in the Default Price Constraint Level measure.
Price Hold	Select this option if you do not want the price to change.
Price Ladder	Use this measure to select a price ladder. All items should be assigned a price ladder.
Self Elasticity Standard Error	The data in this measure is imported from the APC-RPO application. It displays the standard error information while calculating the self price elasticity for the given item/price zone in APC-RPO.
Self Elasticity T-Statistic	The data in this measure is imported from the APC-RPO application. It displays the T-statistic information while calculating the self price elasticity for the given item/price zone in APC-RPO.
Treat Min/Max Price as %	Select this option if the minimum and maximum prices should be treated as a percentage rather than an absolute value.

After you have created constraints for individual items as well as item groups, continue to the [Inter-Item Constraints Step](#).

Inter-Item Constraints Step

This step provides two views that are used to create inter-item constraints.

- [Item Linkage Override View](#)
- [Select Constraint Items and Item Group Levels Views](#)

Item Linkage Override View

Use this view to override the item links you created in the [Item Linkage View](#) in the [Item Management](#) task. The item links you created previously were for all scenarios. In this view, however, you can create item links for specific scenario, location, and inter-item constraint combinations. For instance, if you want to create an inter-item constraint that defines a relationship between halved peaches and sliced peaches for a specific scenario, you can link those items here.

For more information about item links in general, see the [Item Linkage View](#) section.

Figure 5–11 *Item Link Group Overrides View*

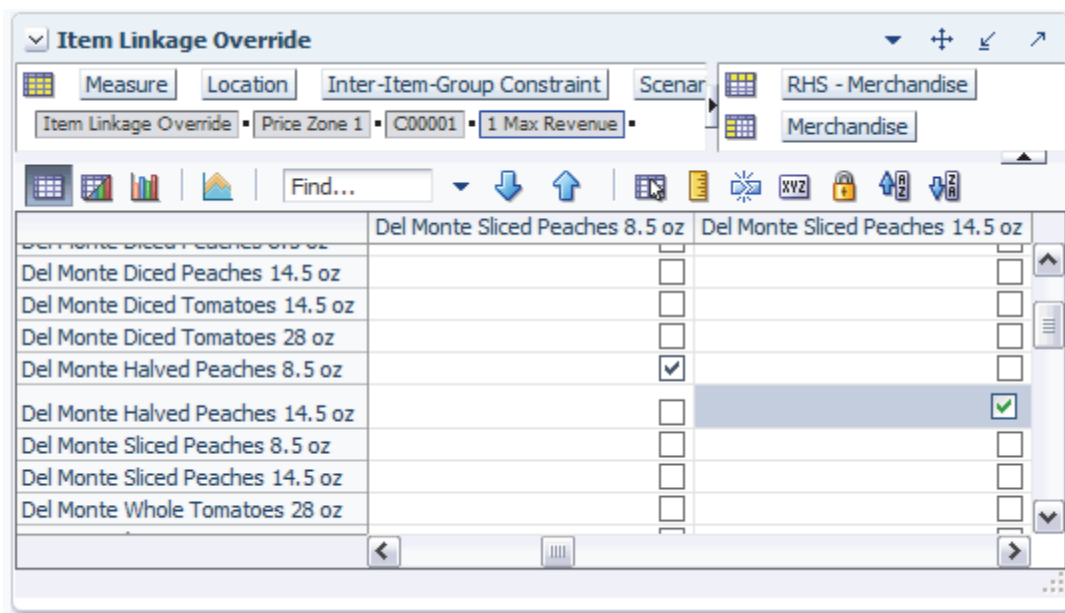


Table 5–7 lists the measure in this view.

Table 5–7 *Item Link Group Overrides View Measures*

Measure	Description
Item Linkage Override	Use this measure to override item links at the scenario/location/inter-item constraint level. These links override the default item links you made at the all scenario level in the Item Linkage View .

Select Constraint Items and Item Group Levels Views

Note: The Select Constraint Items and Item Group Level views are shown together so that you can see how they are related.

Use the Select Constraint Items and Item Group Level views to create inter-item constraints. An inter-item constraint describes a relationship among items. For instance, you could create an inter-item constraint that specifies 8.5 oz. canned peaches items be less expensive than the 14.5 oz. canned peaches items.

For the inter-item constraint to work properly, specific 8.5 oz. items need to be linked to specific 14.5 oz. items. Even though you want the 8.5 oz. items to be less expensive than the 14.5 oz. items, you may not want the most expensive 8.5 oz. item (such as name brand peaches) to be less expensive than the cheapest 14.5 oz. peaches (such as store brand peaches). Therefore, you should link the name brand 8.5 oz. peaches to the name brand 14.5 oz. peaches and do the same for the store brand 14.5 oz. peaches using the [Item Linkage Override View](#). That way, when you create the constraint that states 8.5 oz. peaches should be less expensive than 14.5 oz. peaches, RPO will use the inter-item linkages to ensure that the correct items are compared.

In this example, using the Select Constraint Items view, you would specify Item Group 01 (8.5 oz. peaches) in the LHS (Left Hand Side) Item Group measure and Item Group 02 (14.5 oz. peaches) in the RHS (Right Hand Side) Item Group measure. In [Figure 5–12](#), these item groups were specified in the C00001 constraint.

Then, in the Item Group Level view, in the same C00001 constraint, you would specify how much less expensive the 8.5 oz. peaches should be. In [Figure 5–12](#), it is specified that all 8.5 oz. canned peach items have prices that are less than 80% of the 14.5 oz. canned peach item prices.

Figure 5–12 Select Constraint Items and Item Group Level Views

The screenshot displays two views of the software interface. The top view, 'Select Constraint Items', shows a table with columns: LHS Item, LHS Class, LHS Sub Category, LHS Item Group, LHS Brand, RHS Item, RHS Class, RHS Sub Category, RHS Item Group, and RHS Brand. The bottom view, 'Item Group Level', shows a table with columns: Note, Apply Constraint, LHS Multiplier, Operator, RHS Multiplier, RHS Constant, Constraint Priority, Type, Default Constraint Priority, and Message.

LHS Item	LHS Class	LHS Sub Category	LHS Item Group	LHS Brand	RHS Item	RHS Class	RHS Sub Category	RHS Item Group	RHS Brand
C00001			Item Group 01					Item Group 02	
C00002									
C00003									

Note	Apply Constraint	LHS Multiplier	Operator	RHS Multiplier	RHS Constant	Constraint Priority	Type	Default Constraint Priority	Message
C00001 Peaches	☒	100.00%	<=	80.00%		Priority 2	Item	Priority 3	
C00002	☐	100.00%	<=	100.00%		Default	Item	Priority 3	
C00003	☐	100.00%	<=	100.00%		Default	Item	Priority 3	

You can select specific items, class, sub categories, item groups, brands, or a combination of those as the LHS or RHS component. You can enter multiple constraints that have the same item as the LHS or RHS component.

To create inter-item constraints, perform the following steps:

1. In the Select Constraint Items view, select the LHS component or components for one of the constraints. You can select an item, class, sub category, item group, brand, or combination of those components.
2. Select the RHS component or components.

3. In the Item Group Level view, enter a description for the same constraint in steps 1 and 2.
4. Using the LHS Multiplier, Operator, RHS Multiplier, and RHS Constant measures, create the constraint rule:
 - LHS Multiplier: Use this measure to specify the percentage of the LHS item price to be used in the constraint equation.
 - Operator: Use this measure to specify one of the following operators: less than or equal to, equal, or greater than or equal.
 - RHS Multiplier: Use this measure to specify the percentage of the RHS item price to be used in the constraint equation.
 - RHS Constant: Use this measure to add or subtract an amount from the right hand side of the equation. For instance, if the constraint equation specifies

$$\text{LHS } 100\% = \text{RHS } 100\% , \text{ RHS Constant } -\$0.20$$
 then LHS item would be \$0.20 less than the RHS item.
5. In the Constraint Priority measure, enter the priority level for the constraint. Use the Default Constraint Level measure as a reference. For more information about constraints, see the [Default Priority Setting View](#) section.
6. In the Type measure, enter the aspect of the constraint items you are comparing. Options are Item (the item as a whole), UOM (the item's unit of measure), and EUOM (item's equivalent unit of measure).
7. If you want to apply the constraint to the optimization, select the check box in the Apply Constraint measure. Otherwise, the constraint can be saved in this view for later use.

Table 5–8 lists the measures in this view.

Table 5–8 Select Item Constraints View Measures

Measure	Description
LHS Brand	Use this measure to specify the brand used on the left hand side of the equation. This measure can be used in combination with any other LHS measure.
LHS Class	Use this measure to specify the class used on the left hand side of the equation. This measure can be used in combination with any other LHS measure.
LHS Item	Use this measure to specify the item used on the left hand side of the equation. This measure can be used in combination with any other LHS measure.
LHS Item Group	Use this measure to specify the item group used on the left hand side of the equation. This measure can be used in combination with any other LHS measure.
LHS Sub Category	Use this measure to specify the sub category used on the left hand side of the equation. This measure can be used in combination with any other LHS measure.
RHS Brand	Use this measure to specify the brand used on the right hand side of the equation. This measure can be used in combination with any other RHS measure.
RHS Class	Use this measure to specify the class used on the right hand side of the equation. This measure can be used in combination with any other RHS measure.

Table 5–8 (Cont.) Select Item Constraints View Measures

Measure	Description
RHS Item	Use this measure to specify the item used on the right hand side of the equation. This measure can be used in combination with any other RHS measure.
RHS Item Group	Use this measure to specify the item group used on the right hand side of the equation. This measure can be used in combination with any other RHS measure.
RHS Sub Category	Use this measure to specify the sub category used on the right hand side of the equation. This measure can be used in combination with any other RHS measure.

Table 5–9 lists the measures in this view.

Table 5–9 Item Group Level View Measures

Measure	Description
Apply Constraint	Select this option to apply the inter-item constraint to the optimization.
Constraint Priority	Use this measure to specify the the priority level for the constraint.
LHS Multiplier	Use this measure to specify the percentage of the LHS item price to be used in the constraint equation.
Message	After RPO has run the optimization, this measure displays any rule relaxations or violations that occurred for the constraint.
Note	Use this measure to enter a description of the constraint.
Operator	Use this measure to specify the operator that relates the LHS with the RHS.
RHS Constant	Use this measure to specify the amount to add or subtract from the RHS price.
RHS Multiplier	Use this measure to specify the percentage of the RHS item price to be used in the constraint equation.
Type	Use this measure to specify the constraint type. This field determines how relationships are handled between items. Relationships can be defined according to item, UOM, or EUOM. Item: Item to related item (Brand X pen to Brand Y pen) UOM: Unit of measures (24-pack to 6-pack) EUOM: Equivalent units (24.6 oz. to 32.8 oz.)

Competition Constraints Step

This step provides two views to create competition constraints: Item Group Level and Competition Item Metrics.

Item Group Level and Competition Item Metrics Views

Use the Item Group Level and Competition Item Metrics views to create competition constraints at the item group level. Competition constraints describe a relationship among your items and the competitor items. For instance, you could create a competition constraint that specifies that your 8.5 oz. diced peaches are priced less than a competitor's.

Figure 5–13 Item Group Level and Competition Item Metrics Views

The screenshot displays two windows from the Oracle Retail Regular Price Optimization software.

Item Group Level View:

- Buttons: Location, Scenario, Measure, Competition Item Group Constraint.
- Price Zone 1, 1 Max Revenue.
- Table columns: Note, Apply Con, Item, Class, Sub Cat, Brand, Item Gr, Operator, Multiplier, Competitor, Constant, Default Constr, Constraint Pri, Message.
- Table data:

Note	Apply Con	Item	Class	Sub Cat	Brand	Item Gr	Operator	Multiplier	Competitor	Constant	Default Constr	Constraint Pri	Message
C00001	☒	Del Monte Diced...					=	100.00%	J Mart	\$ 0.20	Priority 2	Default	
C00002	☐						<=	100.00%			Priority 2	Default	
C00003	☐						<=	100.00%			Priority 2	Default	

Competition Item Metrics View:

- Buttons: Location, Measure, Competition, Merchandise.
- Price Zone 1, Current Competitor Price.
- Table columns: @Average Competitor Price, @Max Competitor Price, @Min Competitor Price, J Mart, Smith.
- Table data:

	@Average Competitor Price	@Max Competitor Price	@Min Competitor Price	J Mart	Smith
Del Monte Diced Peaches 8.5 oz	0.00	0.00	0.00	0.00	0.00
Del Monte Diced Peaches 14.5 oz	0.00	0.00	0.00	0.00	0.00
Del Monte Diced Tomatoes 14.5 oz	0.00	0.00	0.00	0.00	0.00

Before creating competitor constraints, review the Competition Item Metrics view to see the competitor prices and metrics. Then, use the Item Group Level view to create constraints around those competitor prices and metrics.

To create competitor constraints, perform the following steps in the Item Group Level view:

1. In the Note measure, enter a short description of the constraint.
2. Select the item component or components for the constraint equation. You can select an item, class, sub category, item group, brand, or combination of these components.
3. In the Operator measure, select the operator for the equation. The options are less than or equal to, equal, and greater than or equal.
4. In the Competitor measure, select the competitor or competitor metric that you want to compare the item to.
5. In the Multiplier measure, specify the percentage of the competitor's item price to be used in the constraint equation.
6. In the Constant measure, enter the amount to add or subtract from the competitor side of the equation. For instance, if the constraint equation specifies
 Item 100% = Competitor A 100% , Constant \$0.20
 then the competitor item would be at least \$0.20 more than your item price.
7. In the Constraint Priority measure, enter the priority level for the constraint. Use the Default Constraint Level measure as a reference. For more information about constraints, see the [Default Priority Setting View](#) section.
8. If you want to apply the constraint to the optimization, select the check box in the Apply Constraint measure. Otherwise, the constraint can be saved in this view for later use.

Table 5–10 lists the measures in this view.

Table 5–10 Item Group Level View Measures

Measure	Description
Apply Constraint	Select this option to apply the competition constraint to the optimization.
Brand	Use this measure to specify the brand to be used in the constraint equation. This measure can be used in combination with any product measure.
Class	Use this measure to specify the class to be used in the constraint equation. This measure can be used in combination with any product measure.
Constraint Priority	Use this measure to override the default priority level for the competition constraint. The default priority level is displayed in the Default Constraint Level measure.
Default Constraint Level	This read-only measure displays the priority level you set for all competition constraints in the Default Priority Setting View .
Item	Use this measure to specify your item to be used in the constraint equation. This measure can be used in combination with any product measure.
Item Group	Use this measure to specify the item group to be used in the constraint equation. This measure can be used in combination with any product measure.
Message	After RPO has run the optimization, this measure displays any rule relaxations or violations that occurred for the constraint.
Multiplier	Use this measure to specify the percentage of the competitor item price or metric to be used in the constraint equation.
Note	Use this measure to enter a description of the constraint.
Operator	Use this measure to specify the operator that relates the LHS with the RHS merchandise.
RHS Constant	Use this measure to specify the amount to add or subtract from the competitor price or metric.
Sub Category	Use this measure to specify the sub category to be used in the constraint equation. This measure can be used in combination with any product measure.

Table 5–11 lists the measure in this view.

Table 5–11 Competition Item Metrics View Measures

Measure	Description
Current Competitor Price	The current price of the competitor item at a particular location. This is a read-only measure. This data is loaded during the batch load process.

After you have set the competition constraints, continue to the [Optimization Dashboard Step](#) to run the optimization of scenarios and review the results.

Optimization Dashboard Step

Use the views in this step to select the scenarios to optimize, copy scenario selections, and view the optimization and validation status of the optimization run.

This step contains these views:

- [Group Objective Diagnostics View](#)
- [Scenario Objective Diagnostics View](#)
- [Select Scenario View](#)
- [Select Price Zones View](#)

- [Copy Scenario Selection View](#)
- [Optimization/Validation Status View](#)
- [Item Constraints Diagnostics View](#)

Group Objective Diagnostics View

Use this read-only view to review the desired and recommended item group objectives. If the objective for a certain metric is not met, a message is displayed.

Figure 5–14 Group Objective Diagnostics View

	Item Group1	Item Group2	Item Group3
Group Level Expected Min Gross Margin			
Group Level Recommended GM Amount			
Group Level Gross Margin Objective			
Group Level Expected Min Revenue			
Group Level Recommended Revenue			
Group Level Revenue Objective			
Group Level Expected Min Volume			
Group Level Recommended Volume			
Group Level Volume Objective			
Group Level Expected Min CPI			
Group Level Recommended CPI			
Group Level CPI Objective			

Table 5–12 lists the measures in this view.

Table 5–12 Group Objective Diagnostics View Measure

Measure	Description
Group Level CPI Objective	This measure indicates whether or not the objective was met, that is, if the recommended CPI is better than the expected CPI. When the objective is met, no message is displayed. When the objective is not met, the message displays, <i>Relaxed</i> .
Group Level Expected Min CPI	This measure represents the lesser of the Group Level CPI and Group Level CPI (% Better than Competitor) objectives set in the Group Goals and Constraints View.
Group Level Expected Min Gross Margin	This measure represents the lesser of the Group Level Min Gross Margin and Group Level Min Gross Margin (% of Current) objectives set in the Group Goals and Constraints View.
Group Level Expected Min Revenue	This measure represents the lesser of the Group Level Min Revenue and Group Level Min Revenue (% of Current) objectives set in the Group Goals and Constraints View.
Group Level Expected Min Volume	This measure represents the lesser of the Group Level Min Volume and Group Level Min Volume (% of Current) objectives set in the Group Goals and Constraints View.

Table 5–12 (Cont.) Group Objective Diagnostics View Measure

Measure	Description
Group Level Gross Margin Objective	This measure indicates whether or not the objective was met, that is, if the recommended gross margin is higher than the expected gross margin. When the objective is met, no message is displayed. When the objective is not met, the message displays, <i>Relaxed</i> .
Group Level Recommended CPI	This measure represents the CPI achieved with the recommended prices for the selected item group.
Group Level Recommended GM Amount	This measure represents the gross margin achieved with the recommended prices for the selected item group.
Group Level Recommended Revenue	This measure represents the revenue achieved with the recommended prices for the selected item group.
Group Level Recommended Volume	This measure represents the volume achieved with the recommended prices for the selected item group.
Group Level Revenue Objective	This measure indicates whether or not the objective was met, that is, if the recommended revenue is higher than the expected revenue. When the objective is met, no message is displayed. When the objective is not met, the message displays, <i>Relaxed</i> .
Group Level Volume Objective	This measure indicates whether or not the objective was met, that is, if the recommended volume is higher than the expected revenue. When the objective is met, no message is displayed. When the objective is not met, the message displays, <i>Relaxed</i> .

Scenario Objective Diagnostics View

Use this read-only view to review the desired and recommended scenario objectives. If the objective for a certain metric is not met, a message is displayed.

Figure 5–15 Scenario Objective Diagnostics View

	Price Zone 1	Price Zone 2
Expected Min Gross Margin	\$27,793.76	
Recommended GM Amount		
Gross Margin Objective		
Expected Min Revenue		
Recommended Revenue		
Min Revenue Objective		
Expected Min Volume		
Recommended Volume		
Min Volume Objective		
Expected Min CPI		
Recommended CPI		
CPI Objective		
Expected Max # Price	48	34
Recommended # Price		
Max # Price Change		

Table 5–13 lists the measures in this view.

Table 5–13 Scenario Objective Diagnostics Measures

Measure	Description
CPI Objective	This measure indicates whether or not the objective was met, that is, if the recommended CPI is better than the expected CPI. When the objective is met, no message is displayed. When the objective is not met, the message displays, <i>Relaxed</i> .
Expected Max % Price	This measure represents the lesser of the Max # Price Changes (Absolute) and Max # Price Changes (% of Total Prices) objectives set in the Scenario Goals and Constraints View.
Expected Min CPI	This measure represents the lesser of the CPI (Absolute) and Level CPI (% of Original) objectives set in the Scenario Goals and Constraints View.
Expected Min Gross Margin	This measure represents the lesser of the Min Gross Margin (Absolute) and Min Gross Margin (% of Original) objectives set in the Scenario Goals and Constraints View.
Expected Min Revenue	This measure represents the lesser of the Min Revenue (Absolute) and Min Revenue (% of Original) objectives set in the Scenario Goals and Constraints View.
Expected Min Volume	This measure represents the lesser of the Min Volume (Absolute) and Min Volume (% of Original) objectives set in the Scenario Goals and Constraints View.
Gross Margin Objective	This measure indicates whether or not the objective was met, that is, if the recommended gross margin is higher than the expected gross margin. When the objective is met, no message is displayed. When the objective is not met, the message displays, <i>Relaxed</i> .

Table 5–13 (Cont.) Scenario Objective Diagnostics Measures

Measure	Description
Max # Price Change	This measure indicates whether or not the objective was met, that is, if the recommended number of price changes is less than the expected number of price changes. When the objective is met, no message is displayed. When the objective is not met, the message displays, <i>Relaxed</i> .
Min Revenue Objective	This measure indicates whether or not the objective was met, that is, if the recommended revenue is higher than the expected revenue. When the objective is met, no message is displayed. When the objective is not met, the message displays, <i>Relaxed</i> .
Min Volume Objective	This measure indicates whether or not the objective was met, that is, if the recommended volume is higher than the expected revenue. When the objective is met, no message is displayed. When the objective is not met, the message displays, <i>Relaxed</i> .
Recommended # Price	This measure represents the actual number of price changes for the selected scenario.
Recommended CPI	This measure represents the CPI achieved with the recommended prices for the selected scenario.
Recommended GM Amount	This measure represents the gross margin achieved with the recommended prices for the selected scenario.
Recommended Revenue	This measure represents the revenue achieved with the recommended prices for the selected scenario.
Recommended Volume	This measure represents the volume achieved with the recommended prices for the selected scenario.

Select Scenario View

Use this view to select the scenario you want to optimize.

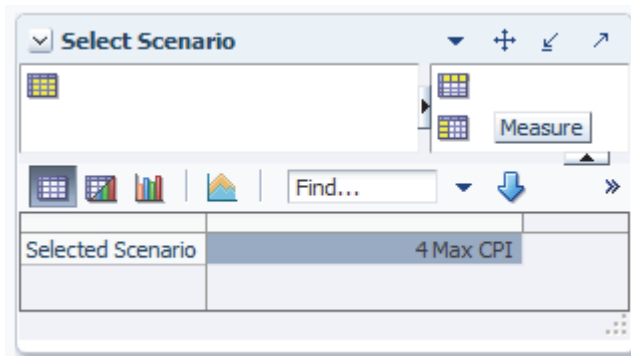
Figure 5–16 Select Scenario View

Table 5–14 lists the measure in this view.

Table 5–14 Select Scenario View Measure

Measure	Description
Selected Scenario	Use this measure to select the scenario to optimize.

After you have selected the scenario, click **Calculate**. Then, continue to the [Select Price Zones View](#).

Select Price Zones View

Use this view to select the price zones of the scenario selected in the [Select Scenario View](#) that you want to optimize.

Figure 5–17 Select Price Zone(s) View

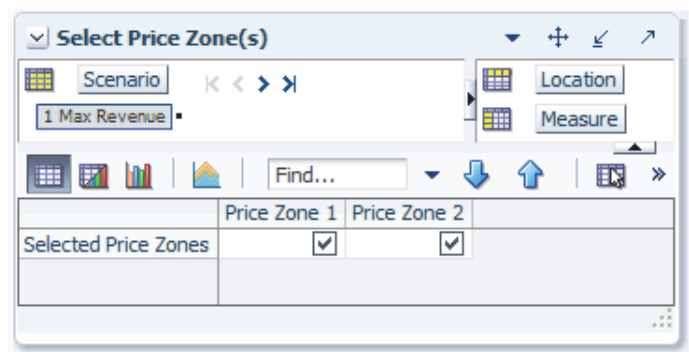


Table 5–15 lists the measure in this view.

Table 5–15 Select Price Zones View Measure

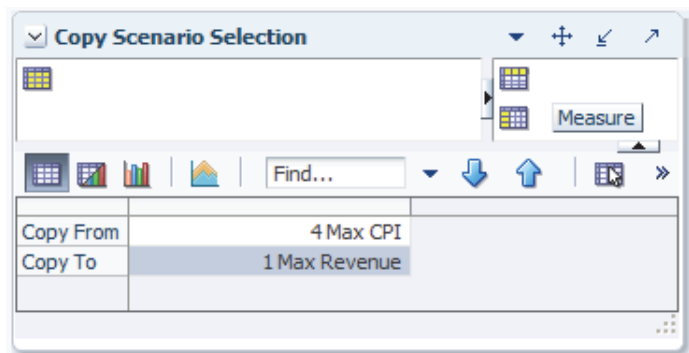
Measure	Description
Selected Price Zones	Use this measure to select the price zones of the scenario selected in the Select Scenario view.

After you have selected the price zones, continue to the [Copy Scenario Selection View](#).

Copy Scenario Selection View

If you want to create a scenario that is similar to one you have already created, you can use this view to copy the constraints of one scenario to another.

Figure 5–18 Copy Scenario Selection View

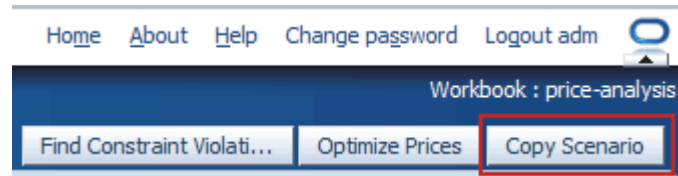


To copy a scenario selection, perform the following steps:

1. In the Copy From measure, select the scenario that has the constraints you want to copy to another scenario.

2. In the Copy To measure, select the scenario to receive the copied constraints.
3. Click **Copy Scenario**.

Figure 5–19 Copy Scenario Option



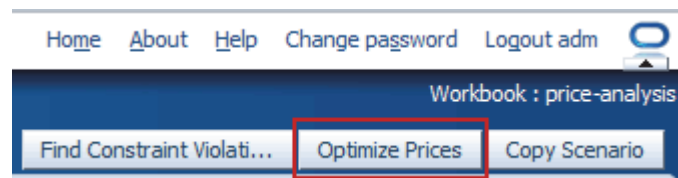
After you have copied the scenario selections, you can return to the previous steps in the Price Analysis task to customize the new scenario.

When finished copying scenarios, continue to the [Optimization/Validation Status View](#).

Optimization/Validation Status View

After you have selected the scenario and price zones you want to optimize, click **Optimize Prices** ([Figure 5–20](#)). RPO will run the optimization on the selected scenario/price zone combinations.

Figure 5–20 Optimize Prices Option



Then, use the Optimization/Validation Status view to review the results. The optimization measures display the optimization results. The validation measures describe the What-if scenarios you created in the [Price Entry View](#).

Figure 5–21 Optimization/Validation Status View

 A screenshot of the 'Optimization/Validation Status' window. The window has a title bar and a toolbar with various icons. Below the toolbar, there are tabs for 'Location' (selected) and 'Price Zone 1'. To the right, there are buttons for 'Scenario' and 'Measure'. The main area contains a table with the following data:

	3 Max Margin	4 Max CPI	5 Original
Optimization Run Message			Feasible
Last Optimization Run Date Time			5/20/2011
Optimization Run By			adm
Validation Run Message		No price conflict with constraint(s)	
Last Validation Run Date Time			5/20/2011
Validation Run By			adm

Table 5–16 lists the measures in this view.

Table 5–16 Optimization/Validation Status View Measures

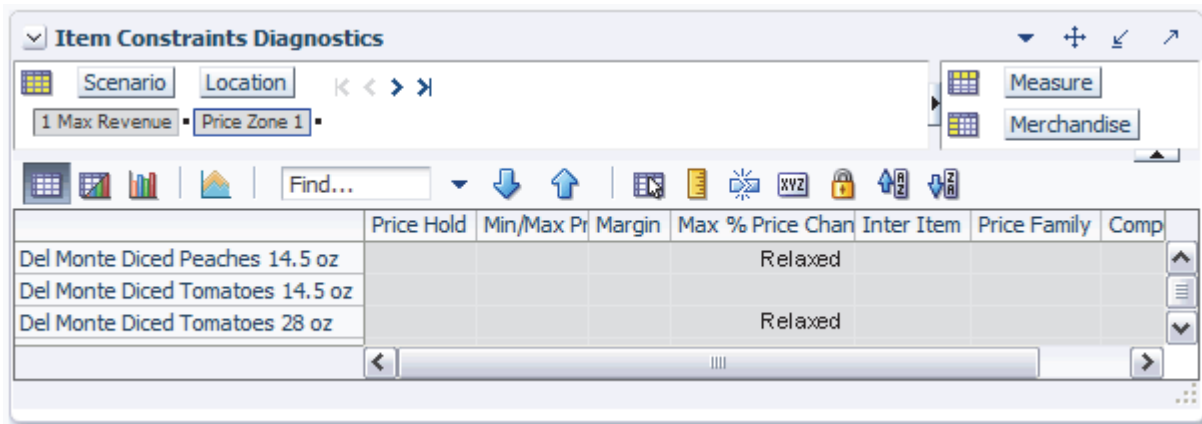
Measure	Description
Last Optimization Run Date Time	This measure displays the last date that the optimization was run.
Last Validation Run Date Time	This measure displays the last date that the validation was run.
Optimization Run By	This measure displays the user who ran the last optimization.
Optimization Run Message	This measure displays the results of the optimization run. The results are messages such as Feasible, Range infeasibility, and so on.
Validation Run By	This measure displays the user who ran the last validation.
Validation Run Message	This measure displays the results of the validation run.

After you have reviewed the results of the optimization or validation, continue to the [Item Constraints Diagnostics View](#) to see if any constraints were relaxed to attain the optimization.

Item Constraints Diagnostics View

Use this read-only view to review the constraints that were relaxed or violated for items in the scenario/location combination.

Figure 5–22 Item Constraints Diagnostics View



If a constraint was relaxed or violated for an item, as shown in [Figure 5–22](#), return to that constraint step to see more details about the relaxation or violation.

For example, many of the items in Item Group 01 were relaxed. This item group had a minimum/maximum price constraint applied to it. In [Figure 5–23](#), the Message measure for this constraint shows that the price range was the aspect of the constraint that was relaxed to achieve the Max CPI (Competitive Price Index) optimization.

Figure 5-23 Relaxed Constraints Example

The screenshot shows the 'Item Group Level' dialog box with the following data:

	C00001	C00002
Note	8.5 Peach	14.5 Peach
Selected Item Group	Item Group 01	Item Group 01
Treat as Price Family	☐	☐
Apply Min/Max Price	☒	☒
Min Price	\$1.00	\$1.50
Max Price	\$2.00	\$2.50
Default Margin Constraint Priority	Priority 2	Priority 2
Margin Constraint Priority	Default	Default
Apply Max % Price Change	☐	☐
Default Max % Price Change Priority	Priority 3	Priority 3
Max % Price Change Priority	Default	Default
Message		* Price Range Const

To see the optimization results at a high level, continue to the [Recommendations and What-If Step](#).

Recommendations and What-If Step

This step is used to analyze price recommendations beside the What-if price overrides. These metrics include gross margin dollars, volume, and revenue. The workbook also includes the percent change from the original and recommended prices and the total number of price changes made in each case.

The Recommendations and What-if step contain these views:

- [Group Metrics View](#)
- [Scenario Metrics View](#)
- [Detail Metrics View](#)
- [Price Entry View](#)
- [Recommend and Approve Scenario View](#)
- [Future Plan Metrics View](#)

Group Metrics View

Use this view to review the results of the optimization at the price zone and item group level. This view displays data about the original, recommended, and user (What-if) simulations.

After reviewing this view, continue to the [Detail Metrics View](#).

Figure 5–24 Group Metrics View

	Item Group1	Item Group2	Item Group3	Item Group4	Item Group5
Group Level Original Volume	60.00				
Group Level Recommended					
Group Level User Volume					
% Change (Rec vs Orig)					
% Change (User vs Orig)					
% Change (Orig vs Rec)					
% Change (User vs Rec)					
Group Level Original Revenue	\$275.40				
Group Level Recommended					
Group Level User Revenue					
% Change (Rec vs Orig)					
% Change (User vs Orig)					
% Change (Orig vs Rec)					
% Change (User vs Rec)					
Group Level Original GM	\$62.15				
Group Level Recommended					
Group Level User GM Amount					
% Change (Rec vs Orig) GM					
% Change (User vs Orig) GM					
% Change (Orig vs Rec) GM					
% Change (User vs Rec) GM					
Group Level Original GM %	22.57%				
Group Level Recommended					
Group Level User GM %					
% Change (Rec vs Orig) GM					
% Change (User vs Orig) GM					
% Change (Orig vs Rec) GM					
% Change (User vs Rec) GM					
Group Level Original CPI					
Group Level Recommended					
Group Level User CPI					
% Change (Rec vs Orig) CPI					
% Change (User vs Orig) CPI					
% Change (Orig vs Rec) CPI					
% Change (User vs Rec) CPI					

Table 5–17 lists the measures in this view.

Table 5-17 Group Metrics View Measures

Measure	Description
% Change (Orig vs Rec) CPI	The percent of change between the original and recommended Competitive Price Index for the items in the selected item group.
% Change (Orig vs Rec) GM %	The percent of change between the original and recommended gross margin percentage for the items in the selected item group.
% Change (Orig vs Rec) GM Amount	The percent of change between the original and recommended gross margin for the items in the selected item group.
% Change (Orig vs Rec) Revenue	The percent of change between the original and recommended revenue for the items in the selected item group.
% Change (Orig vs Rec) Volume	The percent of change between the original and recommended volume for the items in the selected item group.
% Change (Rec vs Orig) CPI	The percent of change between the recommended and original Competitive Price Index for the items in the selected item group.
% Change (Rec vs Orig) GM %	The percent of change between the recommended and original gross margin percentage for the items in the selected item group.
% Change (Rec vs Orig) GM Amount	The percent of change between the recommended and original gross margin for the items in the selected item group.
% Change (Rec vs Orig) Revenue	The percent of change between the recommended and original revenue for the items in the selected item group.
% Change (Rec vs Orig) Volume	The percent of change between the recommended and original volume for the items in the selected item group.
% Change (User vs Orig) CPI	The percent of change between the What-if and recommended Competitive Price Index for the items in the selected item group.
% Change (User vs Orig) GM %	The percent of change between the What-if and recommended gross margin percentage for the items in the selected item group.
% Change (User vs Orig) GM Amount	The percent of change between the What-if and recommended gross margin for the items in the selected item group.
% Change (User vs Orig) Revenue	The percent of change between the What-if and recommended revenue for the items in the selected item group.
% Change (User vs Orig) Volume	The percent of change between the What-if and recommended volume for the items in the selected item group.
% Change (User vs Rec) CPI	The percent of change between the What-if and recommended Competitive Price Index for the items in the selected item group.
% Change (User vs Rec) GM %	The percent of change between the What-if and recommended gross margin percentage for the items in the selected item group.
% Change (User vs Rec) GM Amount	The percent of change between the What-if and recommended gross margin for the items in the selected item group.
% Change (User vs Rec) Revenue	The percent of change between the What-if and recommended revenue for the items in the selected item group.
% Change (User vs Rec) Volume	The percent of change between the What-if and recommended volume for the items in the selected item group.
Group Level Original CPI	The original Competitor Price Index loaded in the batch load for the items in the selected item group.
Group Level Original GM %	The original gross margin percentage loaded in the batch load for the items in the selected item group.
Group Level Original GM Amount	The original gross margin loaded in the batch load for the items in the selected item group.

Table 5–17 (Cont.) Group Metrics View Measures

Measure	Description
Group Level Original Revenue	The original revenue loaded in the batch load for the items in the selected item group.
Group Level Original Volume	The original volume loaded in the batch load for the items in the selected item group.
Group Level Recommended CPI	The Competitor Price Index that the optimization recommends for the items in the selected item group.
Group Level Recommended GM %	The gross margin percentage that the optimization recommends for the items in the selected item group.
Group Level Recommended GM Amount	The gross margin that the optimization recommends for the items in the selected item group.
Group Level Recommended Revenue	The revenue that the optimization recommends for the items in the selected item group.
Group Level Recommended Volume	The volume that the optimization recommends for the items in the selected item group.
Group Level User CPI	The Competitive Price Index that the What-if simulation recommends for the items in the selected item group.
Group Level User GM %	The gross margin percentage that the What-if simulation recommends for the items in the selected item group.
Group Level User GM Amount	The gross margin that the What-if simulation recommends for the items in the selected item group.
Group Level User Revenue	The revenue that the What-if simulation recommends for the items in the selected item group.
Group Level User Volume	The volume that the What-if simulation recommends for the items in the selected item group.

Scenario Metrics View

Use this view to review the results of the optimization at the price zone level. This view displays data about the original, recommended, and user (What-if) simulations. After reviewing this view, continue to the [Detail Metrics View](#).

Figure 5–25 Scenario Metrics View

Scenario Metrics					
Location					
Price Zone 1					
Scenario					
Measure					
	Scenario 001	Scenario 002	Scenario 003	Scenario 004	Scenario 005
Original Volume	22,242.00	22,242.00	22,242.00	22,242.00	22,242.00
Recommended Volume					
User Volume					
% Change (Rec vs Orig)					
% Change (User vs Orig)					
% Change (Orig vs Rec)					
% Change (User vs Rec)					
Original Revenue	\$89,314.58	\$89,314.58	\$89,314.58	\$89,314.58	\$89,314.58
Recommended Revenue					
User Revenue					
% Change (Rec vs Orig)					
% Change (User vs Orig)					
% Change (Orig vs Rec)					
% Change (User vs Rec)					
Original GM Amount	\$29,256.58	\$29,256.58	\$29,256.58	\$29,256.58	\$29,256.58
Recommended GM Amount					
User GM Amount					
% Change (Rec vs Orig) GM					
% Change (User vs Orig) GM					
% Change (Orig vs Rec) GM					
% Change (User vs Rec) GM					
Original GM %	32.76%	32.76%	32.76%	32.76%	32.76%
Recommended GM %					
User GM %					
% Change (Rec vs Orig) GM					
% Change (User vs Orig) GM					
% Change (Orig vs Rec) GM					
% Change (User vs Rec) GM					
Original CPI	94.67	94.67	94.67	94.67	94.67
Recommended CPI					
User CPI					
% Change (Rec vs Orig) CPI					
% Change (User vs Orig) CPI					
% Change (Orig vs Rec) CPI					
% Change (User vs Rec) CPI					
Recommended # Price					
User # Price Changes					

Table 5–18 lists the measures in this view.

Table 5-18 Scenario Metrics View Measures

Measure	Description
% Change (Orig vs Rec) CPI	The percent of change between the original and recommended Competitive Price Index.
% Change (Orig vs Rec) GM %	The percent of change between the original and recommended gross margin percentage.
% Change (Orig vs Rec) GM %	The percent of change between the original and recommended gross margin percentage.
% Change (Orig vs Rec) GM Amount	The percent of change between the original and recommended gross margin.
% Change (Orig vs Rec) Revenue	The percent of change between the original and recommended revenue.
% Change (Orig vs Rec) Volume	The percent of change between the original and recommended volume.
% Change (Rec vs Orig) CPI	The percent of change between the recommended and original Competitive Price Index.
% Change (Rec vs Orig) GM %	The percent of change between the recommended and original gross margin percentage.
% Change (Rec vs Orig) GM %	The percent of change between the recommended and original gross margin percentage.
% Change (Rec vs Orig) GM Amount	The percent of change between the recommended and original gross margin.
% Change (Rec vs Orig) Revenue	The percent of change between the recommended and original revenue.
% Change (Rec vs Orig) Volume	The percent of change between the recommended and original volume.
% Change (User vs Orig) CPI	The percent of change between the What-if and recommended Competitive Price Index.
% Change (User vs Orig) GM %	The percent of change between the What-if and recommended gross margin percentage.
% Change (User vs Orig) GM %	The percent of change between the What-if and recommended gross margin percentage.
% Change (User vs Orig) GM Amount	The percent of change between the What-if and recommended gross margin.
% Change (User vs Orig) Revenue	The percent of change between the What-if and recommended revenue.
% Change (User vs Orig) Volume	The percent of change between the What-if and recommended volume.
% Change (User vs Rec) CPI	The percent of change between the What-if and recommended Competitive Price Index.
% Change (User vs Rec) GM %	The percent of change between the What-if and recommended gross margin percentage.
% Change (User vs Rec) GM %	The percent of change between the What-if and recommended gross margin percentage.
% Change (User vs Rec) GM Amount	The percent of change between the What-if and recommended gross margin.
% Change (User vs Rec) Revenue	The percent of change between the What-if and recommended revenue.
% Change (User vs Rec) Volume	The percent of change between the What-if and recommended volume.
Original CPI	The original Competitor Price Index loaded in the batch load.
Original GM %	The original gross margin percentage loaded in the batch load.
Original GM %	The original gross margin percentage loaded in the batch load.

Table 5–18 (Cont.) Scenario Metrics View Measures

Measure	Description
Original GM Amount	The original gross margin loaded in the batch load.
Original Revenue	The original revenue loaded in the batch load.
Original Volume	The original volume loaded in the batch load.
Recommended CPI	The Competitor Price Index that the optimization recommends.
Recommended GM %	The gross margin percentage that the optimization recommends.
Recommended GM %	The gross margin percentage that the optimization recommends.
Recommended GM Amount	The gross margin that the optimization recommends.
Recommended Revenue	The revenue that the optimization recommends.
Recommended Volume	The volume that the optimization recommends.
User # Price Changes	The number of price changes that the What-if simulation changed.
User CPI	The Competitive Price Index that the What-if simulation recommends.
User GM %	The gross margin percentage that the What-if simulation recommends.
User GM %	The gross margin percentage that the What-if simulation recommends.
User GM Amount	The gross margin that the What-if simulation recommends.
User Revenue	The revenue that the What-if simulation recommends.
User Volume	The volume that the What-if simulation recommends.

Detail Metrics View

Use this view to review the results of the optimization for each item. This view displays data about the original, recommended, and user (What-if) simulations. After reviewing this view, continue to the [Price Entry View](#).

Figure 5–26 Detail Metrics View

Detail Metrics					
Location	Merchandise				
Price Zone 1	7 GRAIN BREAD SPROUTED 24 OZ				
Scenario	Measure				
	Scenario 001	Scenario 002	Scenario 003	Scenario 004	Scenario 005
Original Price	\$4.89	\$4.89	\$4.89	\$4.89	\$4.89
Original Cost	\$3.96	\$3.96	\$3.96	\$3.96	\$3.96
Competitor1 Price	0.00	0.00	0.00	0.00	0.00
Competitor2 Price	0.00	0.00	0.00	0.00	0.00
Recommended Price	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Original Volume	127.00	127.00	127.00	127.00	127.00
Recommended Volume					
User Volume					
% Change (Rec vs Orig) Volume					
% Change (User vs Orig) Volume					
% Change (Orig vs Rec) Volume					
% Change (User vs Rec) Volume					
Original Revenue	\$621.03	\$621.03	\$621.03	\$621.03	\$621.03
Recommended Revenue					
User Revenue					
% Change (Orig vs Rec) Revenue					
% Change (Rec vs Orig) Revenue					
% Change (User vs Orig) Revenue					
% Change (User vs Rec) Revenue					
Original GM Amount	\$118.00	\$118.00	\$118.00	\$118.00	\$118.00
Recommended GM Amount					
User GM Amount					
% Change (Rec vs Orig) GM Amount					
% Change (User vs Orig) GM Amount					
% Change (Orig vs Rec) GM Amount					
% Change (User vs Rec) GM Amount					
Original GM %	19.00%	19.00%	19.00%	19.00%	19.00%
Recommended GM %					
User GM %					
% Change (Rec vs Orig) GM %					
% Change (User vs Orig) GM %					
% Change (Orig vs Rec) GM %					
% Change (User vs Rec) GM %					
Original CPI					
Recommended CPI					
User CPI					
% Change (Rec vs Orig) CPI					
% Change (User vs Orig) CPI					
% Change (Orig vs Rec) CPI					

Table 5–19 lists the measures in this view.

Table 5-19 Detail Metrics View Measures

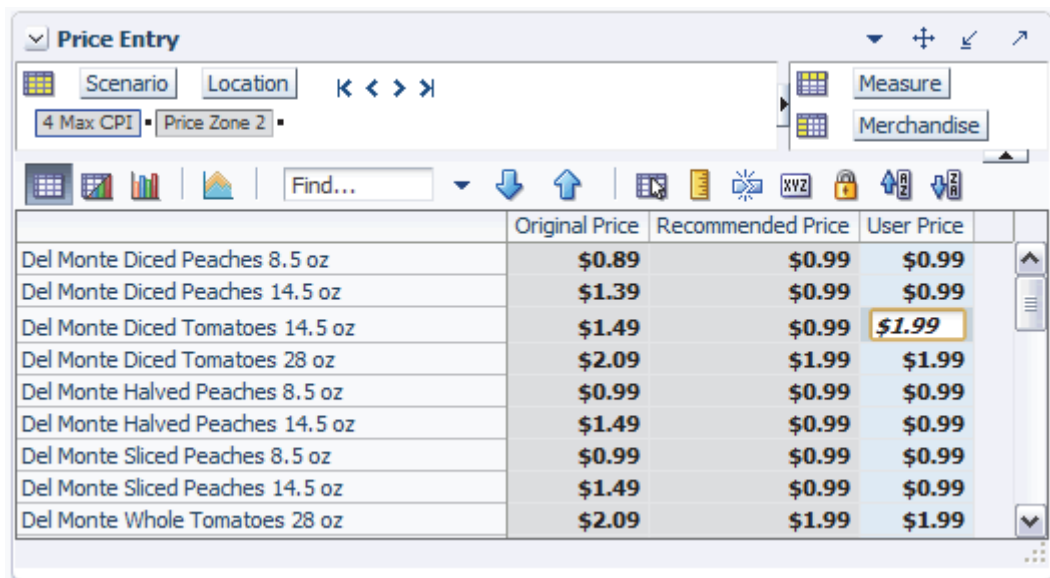
Measure	Description
% Change (Orig vs Rec) CPI	The percent of change between the original and recommended Competitive Price Index.
% Change (Orig vs Rec) GM %	The percent of change between the original and recommended gross margin percentage.
% Change (Orig vs Rec) GM %	The percent of change between the original and recommended gross margin percentage.
% Change (Orig vs Rec) GM Amount	The percent of change between the original and recommended gross margin.
% Change (Orig vs Rec) Revenue	The percent of change between the original and recommended revenue.
% Change (Orig vs Rec) Volume	The percent of change between the original and recommended volume.
% Change (Rec vs Orig) CPI	The percent of change between the recommended and original Competitive Price Index.
% Change (Rec vs Orig) GM %	The percent of change between the recommended and original gross margin percentage.
% Change (Rec vs Orig) GM %	The percent of change between the recommended and original gross margin percentage.
% Change (Rec vs Orig) GM Amount	The percent of change between the recommended and original gross margin.
% Change (Rec vs Orig) Revenue	The percent of change between the recommended and original revenue.
% Change (Rec vs Orig) Volume	The percent of change between the recommended and original volume.
% Change (User vs Orig) CPI	The percent of change between the What-if and recommended Competitive Price Index.
% Change (User vs Orig) GM %	The percent of change between the What-if and recommended gross margin percentage.
% Change (User vs Orig) GM %	The percent of change between the What-if and recommended gross margin percentage.
% Change (User vs Orig) GM Amount	The percent of change between the What-if and recommended gross margin.
% Change (User vs Orig) Revenue	The percent of change between the What-if and recommended revenue.
% Change (User vs Orig) Volume	The percent of change between the What-if and recommended volume.
% Change (User vs Rec) CPI	The percent of change between the What-if and recommended Competitive Price Index.
% Change (User vs Rec) GM %	The percent of change between the What-if and recommended gross margin percentage.
% Change (User vs Rec) GM %	The percent of change between the What-if and recommended gross margin percentage.
% Change (User vs Rec) GM Amount	The percent of change between the What-if and recommended gross margin.
% Change (User vs Rec) Revenue	The percent of change between the What-if and recommended revenue.
% Change (User vs Rec) Volume	The percent of change between the What-if and recommended volume.
Competitor 1 Price	Displays the price of Competitor 1.
Competitor 2 Price	Displays the price of Competitor 2.
Original Cost	The original cost of the item loaded in the batch load.

Table 5–19 (Cont.) Detail Metrics View Measures

Measure	Description
Original CPI	The original Competitive Price Index loaded in the batch load.
Original GM %	The original gross margin percentage loaded in the batch load.
Original GM %	The original gross margin percentage loaded in the batch load.
Original GM Amount	The original gross margin loaded in the batch load.
Original Price	The original price of the item loaded in the batch load.
Original Revenue	The original revenue loaded in the batch load.
Original Volume	The original volume of the item loaded in the batch load.
Recommended CPI	The Competitive Price Index that the optimization recommends.
Recommended GM %	The gross margin percentage that the optimization recommends.
Recommended GM %	The gross margin percentage that the optimization recommends.
Recommended GM Amount	The gross margin that the optimization recommends.
Recommended Revenue	The revenue that the optimization recommends.
Recommended Volume	The volume that the optimization recommends.
User CPI	The Competitive Price Index that the What-if simulation recommends.
User GM %	The gross margin percentage that the What-if simulation recommends.
User GM %	The gross margin percentage that the What-if simulation recommends.
User GM Amount	The gross margin that the What-if simulation recommends.
User Revenue	The revenue that the What-if simulation recommends.
User Volume	The volume that the What-if simulation recommends.

Price Entry View

Use this view to perform What-if simulations by overriding the recommended prices.

Figure 5–27 Price Entry View


	Original Price	Recommended Price	User Price
Del Monte Diced Peaches 8.5 oz	\$0.89	\$0.99	\$0.99
Del Monte Diced Peaches 14.5 oz	\$1.39	\$0.99	\$0.99
Del Monte Diced Tomatoes 14.5 oz	\$1.49	\$0.99	\$1.99
Del Monte Diced Tomatoes 28 oz	\$2.09	\$1.99	\$1.99
Del Monte Halved Peaches 8.5 oz	\$0.99	\$0.99	\$0.99
Del Monte Halved Peaches 14.5 oz	\$1.49	\$0.99	\$0.99
Del Monte Sliced Peaches 8.5 oz	\$0.99	\$0.99	\$0.99
Del Monte Sliced Peaches 14.5 oz	\$1.49	\$0.99	\$0.99
Del Monte Whole Tomatoes 28 oz	\$2.09	\$1.99	\$1.99

Table 5–20 lists the measures in this view.

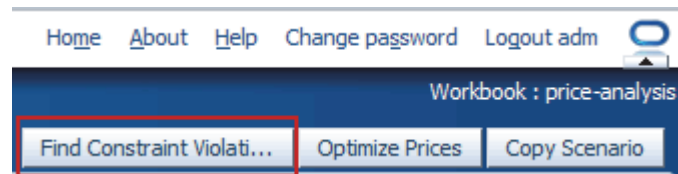
Table 5–20 Price Entry View Measures

Measures	Description
Original Price	A read-only measure that displays the original price of the item.
Recommended Price	A read-only measure that displays the item price recommended by the optimization.
User Price	Use this measure to enter a new price for the item. The value in this field is the recommended value unless you change it.

To create a What-if simulation, perform the following steps:

1. In the User Price measure, enter new prices for items.
2. Click **Calculate**. The optimization metrics, such as user volume and revenue, are calculated.
3. Click **Find Constraint Violations**. This compares the user prices to the constraints.

Figure 5–28 Find Constraint Violations Option



Return to the [Optimization/Validation Status View](#) and review the validation measures to see if the What-if simulation is valid. Then, return to the [Scenario Metrics View](#) and [Detail Metrics View](#) and review the user measures to see the results of the What-if simulation. If you like the results, continue to the [Recommend and Approve Scenario View](#).

Recommend and Approve Scenario View

If you like the results of the optimization or your What-if simulation, use this view to recommend and approve a scenario. If you do not have the required permissions to recommend or approve scenarios, contact your administrator.

Notes:

- It is possible for a user to have permission to recommend a price but not to approve it. However, if a user has permission to approve a price, that user automatically has permission to recommend as well.
- For a user to be able to recommend or approve scenarios in this view, that user must have permission. Permission is granted by enabling that user in the Recommend Price and Approve Price measures in the Measure Analysis workbook. This must be performed in a local domain.

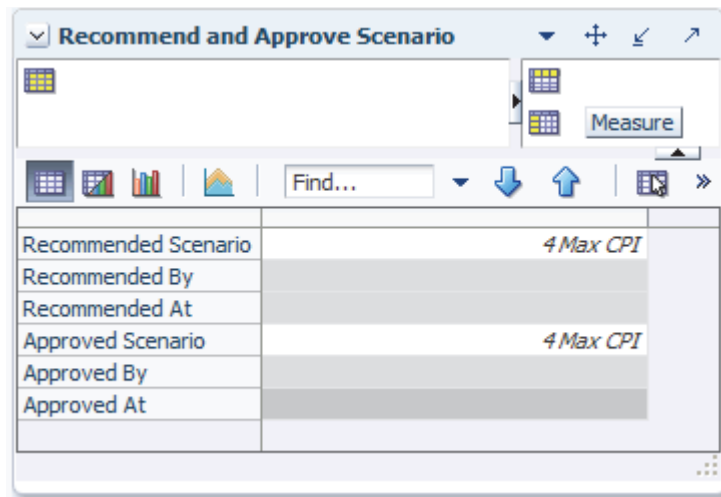
Figure 5–29 Recommend and Approve Scenario View

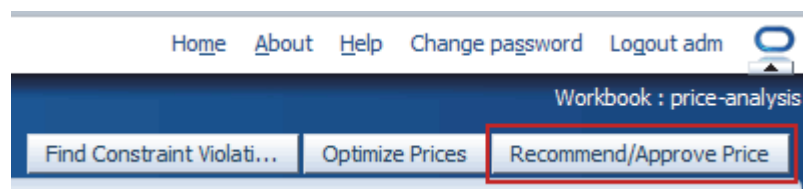
Table 5–21 lists the measures in this view.

Table 5–21 Recommend and Approve Scenario View Measures

Measures	Description
Recommended Scenario	Use this measure to select the scenario you want to recommend.
Recommended By	Displays the user name of the person who last recommended a scenario.
Recommended At	Displays the date of the last recommendation.
Approved Scenario	Use this measure to approve the recommended scenario.
Recommended By	Displays the user name of the person who last approved a scenario.
Recommended At	Displays the date of the last approval.

To approve and recommend a scenario, perform the following steps:

1. In the Recommended Scenario measure, select the scenario to recommend.
2. If you have approval rights, use the Approved Scenario measure to approve the same scenario that you recommended. If you do not have approval rights, another user will review your recommendation and choose a scenario to approve.
3. Click **Recommend/Approve Price**.

Figure 5–30 Recommend/Approve Price Option

The read-only measures are populated with the recommended and approved information. After you have recommended and approved the scenarios, continue to the [Future Plan Metrics View](#) to review the future plan metrics.

Future Plan Metrics View

Use this view to review the future plan metrics.

Figure 5–31 Future Plan Metrics View

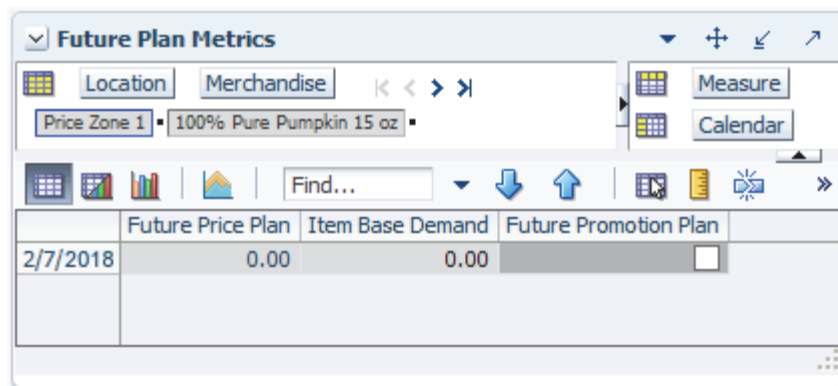


Table 5–22 lists the measures in this view.

Table 5–22 Future Plan Metrics View

Measure	Description
Future Price Plan	The future price that is loaded from an execution system, such as Retail Price Management.
Item Base Demand	The forecast generated by RPO. It is the number of units that RPO projects will be sold, independent of price. This forecast is based upon historical data.
Future Promotion Plan	This measure indicates if the item is on promotion for the week.

Miscellaneous Step

This step is used to maintain cross-item elasticities, price ladders, and item group mapping.

Cross-Item Elasticities View

Use this view to review the cross-item elasticities.

Self elasticity is the relationship between an item's price and its volume. For instance, if the self elasticity of an item is a negative number, then a drop in the item's price yields an increase in the item's volume.

Cross-item elasticity, on the other hand, is the relationship between one item's price and another item's volume. For example, if the price of the 8.5 oz. sliced peaches item decreases, the demand of the 14.5 oz. sliced peaches may decrease because the 8.5 oz. price is more attractive and consumers rather buy the 8.5 oz. item rather than the 14.5 oz. item. This type of cross elasticity is known as cannibalization and is represented by a positive number in the Cross-Item Elasticities view.

The other type of cross elasticity is the halo effect. This occurs when a price drop in one item increases the volume of another. For instance, if the price of hot dogs decreases and its volume increases, the volume of hot dog buns also increases.

Figure 5–32 Cross-Item Elasticities View

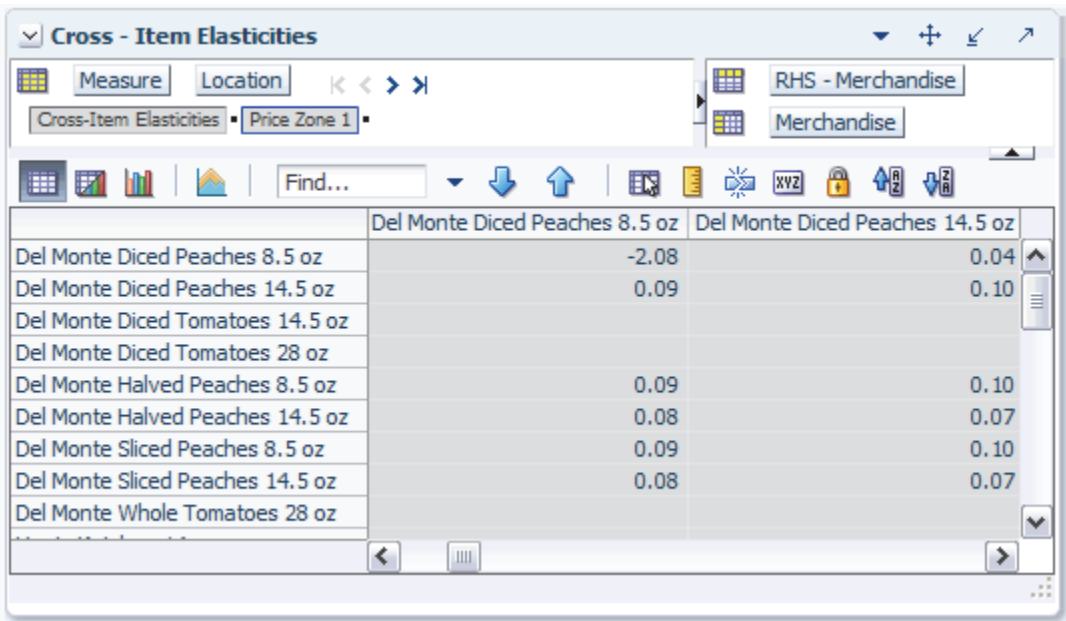


Table 5–23 lists the measure in this view.

Table 5–23 Cross-Item Elasticities View Measure

Measure	Description
Cross Item Elasticities	Displays the cross-item elasticities for all items.

Price Ladder View

This view is similar to the [Price Ladder Maintenance View](#) in the [Business Administration](#) task. It is provided in the Price Analysis task for your convenience. For more information about this view, see the [Price Ladder Maintenance View](#) section.

Figure 5–33 Price Ladder View

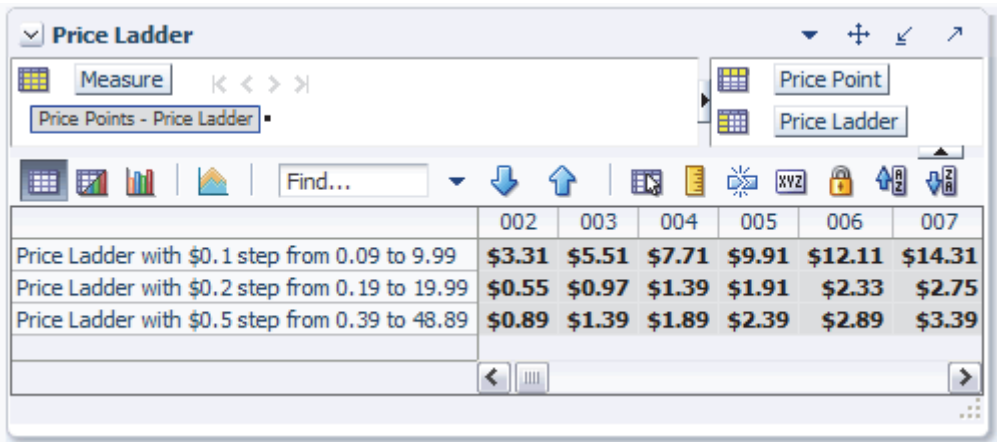


Table 5–24 lists the measure in this view.

Table 5–24 Price Ladder View Measures

Measure	Description
Price Points - Price Ladder	The price points on a given price ladder. Use this measure to edit the price points.

Item - Item Group Assignment View

This view is similar to the [Item Group View](#) in the [Item Management](#) task. It is provided in the Price Analysis task for your convenience.

For more information about this view, see the [Item Group View](#) section.

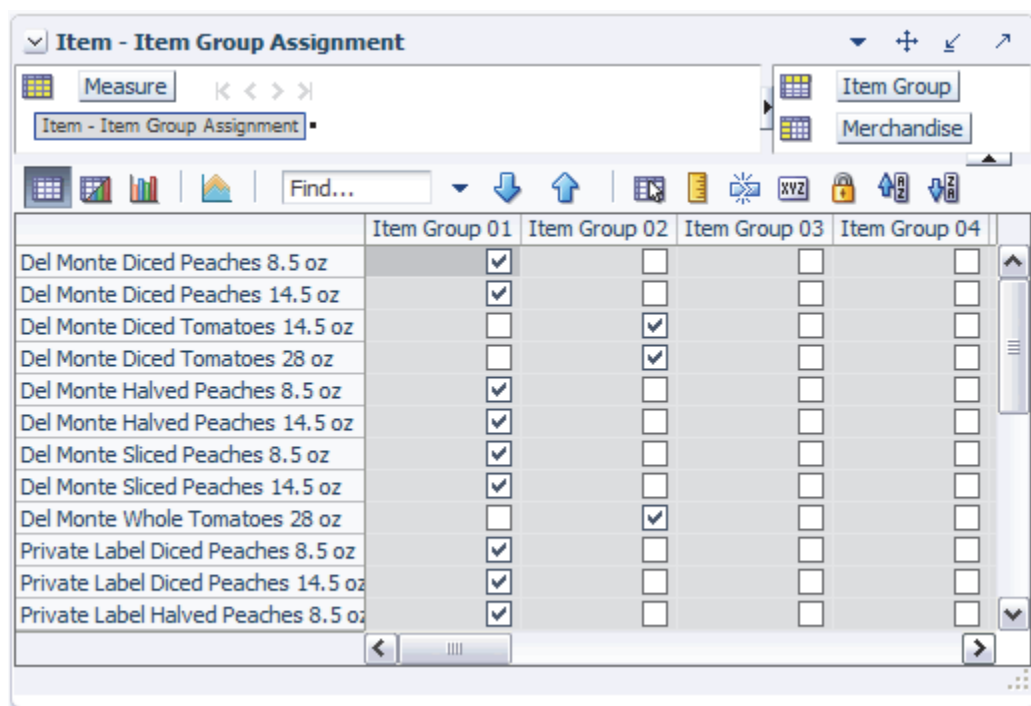
Figure 5–34 Item - Item Group Assignment View

Table 5–25 lists the measure in this view.

Table 5–25 Item - Item Group Assignment View Measure

Measure	Description
Item - Item Group Assignment	Use this measure to assign items to an item group.

Item Self Elasticity Information View

This view displays the item self elasticity information that is imported from APC-RPO.

Figure 5–35 Item Self Elasticity Information View

	Laundry Tab	Private
Item Self Elasticity	0.00	0.00
Self Elasticity Standard	0.00	0.00
Self Elasticity T-Statistic	0.00	0.00

Table 5–26 lists the measures in this view.

Table 5–26 Item Self Elasticity Information View

Measure	Description
Item Self Elasticity	This measure displays the item’s self elasticity in the given location.
Self Elasticity Standard Error	The data in this measure is imported from the APC-RPO application. It displays the standard error information while calculating the self price elasticity for the given item/price zone in APC-RPO.
Self Elasticity T-Statistic	The data in this measure is imported from the APC-RPO application. It displays the T-statistic information while calculating the self price elasticity for the given item/price zone in APC-RPO.

Item Group Label Override View

This view allows you to change the item group label.

Figure 5–36 Item Group Label Override View

	Item Group	Item Group	
Item Group1	Rolls	☒	
Item Group2		☐	
Item Group3		☐	
Item Group4		☐	
Item Group5		☐	
Item Group6		☐	
Item Group7		☐	
Item Group8		☐	
Item Group9		☐	

[Table 5–27](#) lists the measure in this view.

Table 5–27 *Item Group Label Override View*

Measure	Description
Item Group Label	Use this measure to enter the new item group labels. This label is user specific and is used for the given item group in this scenario. This label appears in Selected Item Group measure of the Item Group Level View .

Post Price Analysis

The Post Price Analysis allows you to review the time-phased historical data for your items. This workbook contains one step:

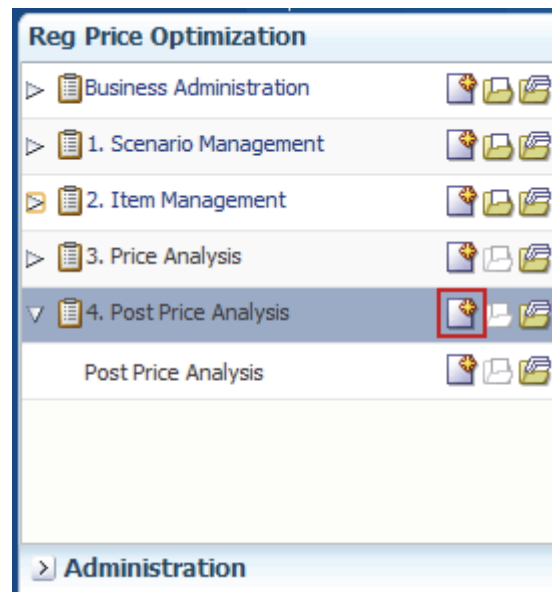
- [Post Price Analysis Step](#)

Building the Post Price Analysis Workbook

To build the Post Price Analysis workbook, perform the following steps:

1. Click the **New Workbook** icon in the Post Price Analysis task.

Figure 6–1 Post Price Analysis Task



2. The Post Price Analysis wizard opens. Select the price zones you want to review. Click **Next**.

Figure 6–2 Post Price Analysis Wizard: Select Price Zone

Workbook Wizard

Price Zones Weeks Products

Select Price Zone

Available Items

View ▾ | Dimension ▾ | Find... | [Down] [Up] [Detach]

Name
✓ Price Zone 1
✓ Price Zone 2
Price Zone 3
Price Zone 4
Price Zone 5

[Add] [Add All] [Remove] [Remove All]

Selected Items

View ▾ | Dimension ▾ | Find... | [Down] [Up] [Star] [Flag] [Detach]

Name
✓ Price Zone 1
✓ Price Zone 2

Use Drag and Drop to add Available Items to Selected Items, use shift-click and Add for multiple selections, or Add All for all items.

☒ Synchronize Hierarchies

[Cancel] [Previous] [Next] [Finish]

3. Select the weeks that you want to review. Click **Next**.

Figure 6–3 Post Price Analysis Wizard: Select Week

Workbook Wizard

Price Zones Weeks Products

Select Week

Available Items

View ▾ | Dimension ▾ | Find... | [Down] [Up] [Detach]

Name
✓ 8/23/2012
✓ 8/30/2012
✓ 9/6/2012
✓ 9/13/2012
✓ 9/20/2012
✓ 9/27/2012
✓ 10/4/2012
✓ 10/11/2012
✓ 10/18/2012
✓ 10/25/2012
✓ 11/1/2012
✓ 11/8/2012
✓ 11/15/2012
✓ 12/20/2012
✓ 12/27/2012
✓ 1/3/2013

[Add] [Add All] [Remove] [Remove All]

Selected Items

View ▾ | Dimension ▾ | Find... | [Down] [Up] [Star] [Flag] [Detach]

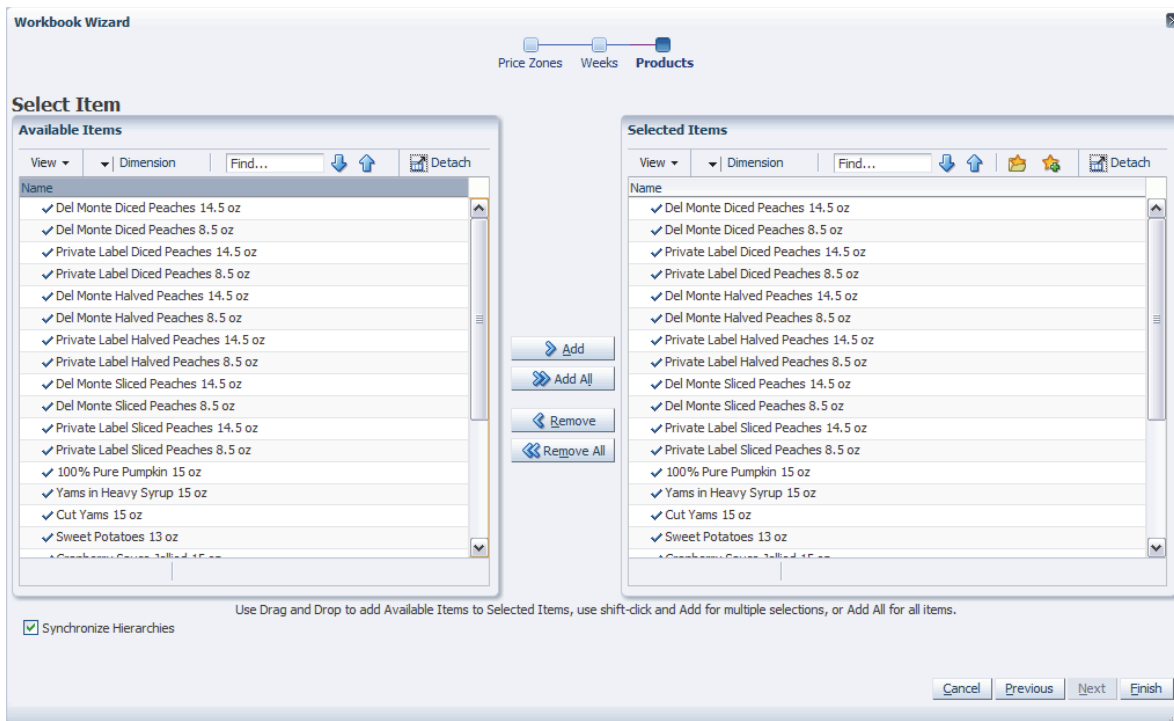
Name
✓ 8/23/2012
✓ 8/30/2012
✓ 9/6/2012
✓ 9/13/2012
✓ 9/20/2012
✓ 9/27/2012
✓ 10/4/2012
✓ 10/11/2012
✓ 10/18/2012
✓ 10/25/2012
✓ 11/1/2012
✓ 11/8/2012
✓ 11/15/2012
✓ 12/20/2012
✓ 12/27/2012
✓ 1/3/2013

Use Drag and Drop to add Available Items to Selected Items, use shift-click and Add for multiple selections, or Add All for all items.

☒ Synchronize Hierarchies

[Cancel] [Previous] [Next] [Finish]

4. Select the products that you want to review. Click **Finish**.

Figure 6–4 Post Price Analysis Wizard: Select Products

The Post Price Analysis workbook is built.

Post Price Analysis Step

This step contains one view: Post Price Analysis.

Post Price Analysis View

Use this view to review the time-phased historical data about your items. The following data is provided:

- The Approved measures represent what you approved in the [Price Analysis](#) task.
- The Actual measures represent the actual item metrics. For instance, RPO may have recommended a price (the Recommended measure), which was overwritten by the user (the Approved measure). However, the actual price, the price the item sold for in the store, may have been different from both the recommended and approved prices.
- The Recommended measures represent what RPO recommended.

Figure 6–5 Post Price Analysis View

	Price Zone 1	Price Zone 2
Cost	\$0.74	\$1.17
Approved Item Price	0.00	0.00
Approved Item Sale Vol	0.00	0.00
Approved GM Amount		
Approved GM %		
Approved Revenue		
Actual Price	\$0.00	\$0.00
Actual Volume		
Actual GM Amount		
Actual GM %		
Actual Revenue		
Recommended Item Price	0.00	0.00
Recommended Sale Vol	0.00	0.00
Recommended GM Amount		
Recommended GM %		
Recommended Revenue		

Table 6–1 lists the measures in this view.

Table 6–1 Post Price Analysis View Measures

Measure	Description
Cost	The cost of the item.
Approved Item Price	The price of the item you approved.
Approve Item Sale Vol	The volume of the item based on the approved price.
Approved GM Amount	The gross margin amount based on the approved price.
Approved GM%	The gross margin percentage based on the approved price.
Approved Revenue	The revenue based on the approved price.
Actual Price	The actual price of the item.
Actual Volume	The actual volume of the item.
Actual GM Amount	The actual gross margin amount.
Actual GM%	The actual gross margin percentage.
Actual Revenue	The actual revenue.
Recommended Item Price	The price of the item that RPO recommended.
Recommended Item Sale Vol	The volume of the item that RPO recommended.

Table 6–1 (Cont.) Post Price Analysis View Measures

Measure	Description
Recommended GM Amount	The gross margin amount that RPO recommended.
Recommended GM%	The gross margin percentage that RPO recommended.
Recommended Revenue	The revenue that RPO recommended.

Glossary

competition

Competition refers to the competitor's pricing for a given item. Competition is definable by item.

item

An item in Regular Price Optimization is merchandise that is being optimized. Items are located on the same level within the merchandise dimension where the demand and cross-item elasticities are produced.

item link groups

Item link groups are definitions that link one item to another. They are primarily used for inter-item constraints.

item group

Item groups are logical groupings of items within a demand group.

planning scope

Identifies the begin and end dates for the planning season and price zones for which planning is being performed.

price zone

Price zones are store clusters that have been created to support different pricing groups by merchandise division. Pricing zones are established so that all stores within the pricing zones have the same price for any single item.

scenario

A configuration of constraints and objectives. In RPO, a user can create many scenarios for a given demand group and compare these scenarios side by side in terms of the decision variables to choose a set of prices that best achieve the objectives.

