Demand Management

Release 6.4

Target Audience

- System administrators
- Technology consultants

Document Version 1.00 - October, 2006
## Typographic Conventions

<table>
<thead>
<tr>
<th>Type Style</th>
<th>Represents</th>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Example text</em></td>
<td>Words or characters quoted from the screen. These include field names, screen titles, pushbutton labels, menu names, menu paths, and menu options. Cross-references to other documentation</td>
<td><img src="%E2%9A%A0%EF%B8%8F" alt="" /></td>
<td>Caution</td>
</tr>
<tr>
<td><em>Example text</em></td>
<td>Emphasized words or expressions in body text, graphic titles, and table titles.</td>
<td>![Example]</td>
<td>Example</td>
</tr>
<tr>
<td>EXAMPLE TEXT</td>
<td>Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.</td>
<td>![Note]</td>
<td>Note</td>
</tr>
<tr>
<td><em>Example text</em></td>
<td>Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade, and database tools.</td>
<td>![Recommendation]</td>
<td>Recommendation</td>
</tr>
<tr>
<td><em>Example text</em></td>
<td>Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.</td>
<td>![Syntax]</td>
<td>Syntax</td>
</tr>
<tr>
<td>&lt;Example text&gt;</td>
<td>Variable user entry. Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXAMPLE TEXT</td>
<td>Keys on the keyboard, for example, F2 or ENTER.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## History of Changes

The following table provides an overview of the most important changes made in the latest versions.

<table>
<thead>
<tr>
<th>Job Processing Guide for SAP DM Version</th>
<th>Changes made by</th>
<th>Important Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>A. Kesselman</td>
<td>Initial customer release.</td>
</tr>
</tbody>
</table>
# Contents

- History of Changes ........................................................................................................... 4
- **1 Introduction** .................................................................................................................. 7
  - 1.1 About This Document ................................................................................................. 7
- **2 What Is JPS?** .................................................................................................................. 8
  - 2.1 JPS Overview .............................................................................................................. 8
    - 2.1.1 Start Processes Section ......................................................................................... 8
    - 2.1.2 Operations Section ............................................................................................... 10
  - 2.2 JPS Operations ............................................................................................................. 13
    - 2.2.1 Using Filters ....................................................................................................... 13
    - 2.2.2 Enabling the Timer ............................................................................................. 14
    - 2.2.3 Disabling the Timer ............................................................................................ 14
    - 2.2.4 Determining Processing Jobs Not Run ............................................................... 15
    - 2.2.5 Resubmitting Processing Jobs ............................................................................ 15
    - 2.2.6 Changing Status Conditions of Processing Jobs .............................................. 16
    - 2.2.7 Cancelling Processing Jobs ................................................................................. 17
    - 2.2.8 Deleting Processing Jobs .................................................................................... 17
  - 2.3 JPS Maintenance ......................................................................................................... 18
    - 2.3.1 Filters Section ................................................................................................... 18
    - 2.3.2 Filtered Processes Table ..................................................................................... 19
    - 2.3.3 Modifying Processing Jobs .................................................................................. 19
  - 2.4 JPS Log ....................................................................................................................... 20
    - 2.4.1 Filters Section ................................................................................................... 20
    - 2.4.2 Filtered Log Table ............................................................................................... 22
    - 2.4.3 Displaying Logged Jobs ..................................................................................... 23
    - 2.4.4 Enabling the Log Timer ....................................................................................... 24
    - 2.4.5 Disabling the Log Timer ...................................................................................... 24
  - 2.5 JPS System and Server Parameters ............................................................................ 25
    - 2.5.1 JPS System Parameters Table ........................................................................... 25
    - 2.5.2 JPS Server Parameters Table ............................................................................. 25
    - 2.5.3 Modifying JPS System Parameters ..................................................................... 26
    - 2.5.4 Modifying JPS Server Parameters ..................................................................... 26
- **3 Performing Processing Jobs** ....................................................................................... 28
  - 3.1 Markdown Optimization .............................................................................................. 28
    - 3.1.1 Daily Processing ................................................................................................. 28
    - 3.1.2 Weekly Imports ................................................................................................ 30
3.1.3  Re-Optimization .................................... 33
3.1.4  Other ............................................. 36
3.2  Price Optimization .................................. 38
   3.2.1 CSO Processing Group ............................ 39
   3.2.2 CSO Summary Screen Processing Group ... 42
   3.2.3 System ........................................... 44
   3.2.4 Build Client Price File ......................... 44
   3.2.5 Demand Modeling and Forecasting .......... 45
   3.2.6 Client Side Forecast ............................ 53
   3.2.7 Import and Cleanse ............................. 53
   3.2.8 CSO Prep ........................................ 59
   3.2.9 Initial System Set-Up .......................... 62
3.3  Promotion Optimization ............................ 64
   3.3.1 Promotion Ad Planning ......................... 65
   3.3.2 Update Status and Create Price File ....... 67
Appendix A. Scheduling .................................. 69
Appendix B. Science Component Descriptions .......... 71
1 Introduction

Purpose
This Job Processing Guide for SAP DM is the central guide for the operation of Job Processing Service (JPS).

1.1 About This Document

Scope
The Job Processing Guide for SAP DM consists of the following main sections:

- **What Is JPS?**
  You can use JPS to perform processing jobs and monitor their status.

- **Performing Processing Jobs**
  You can perform processing jobs for any available application in SAP Demand Management (DM).

Constraints

- The Job Processing Guide for SAP DM primarily discusses the overall operation of JPS rather than its subordinate components. This means that additional software dependencies might exist without being mentioned explicitly in this document. You can find more information on component-specific software dependencies in the corresponding installation guides.

- The business scenarios that are presented herein serve as examples of how you can use SAP software in your company. The business scenarios are only intended as models and may not necessarily function, as they are described here, in your customer-specific system landscape. Review your requirements and systems to determine whether these scenarios can be used productively at your site.

We recommend that you test these scenarios thoroughly in your test systems to ensure they are complete and free of errors before going live.
2 What Is JPS?

Job Processing Service (JPS) is a workflow and job processing application. It takes client-defined single or multiple tasks and executes them in some client-defined order. JPS also has the ability to distribute the work load of several tasks across a client-defined number of servers.

You can use JPS to perform processing jobs for the following applications:

- Markdown Optimization
- Price Optimization
- Promotion Optimization

You can also use JPS to monitor the status of the jobs you have submitted.

2.1 JPS Overview

To launch and use JPS, choose Processing on the navigation panel of the home page. The Operations tab page appears. This page consists of the following:

- Start Processes Section
- Operations Section

You will begin with Start Processes at the bottom of the Operations tab page.

2.1.1 Start Processes Section

The Start Processes section displays the processing jobs that you can submit to JPS. The Start Processes table appears on the left side of the Start Processes section. Depending on the application and processing job you are using, the Event Selection table or Market Hierarchy Selection table appears on the right side of the Start Processes section or neither table appears.

2.1.1.1 Start Processes Table

The Start Processes table contains the Activity and Group dropdown lists, which behave in a similar manner to the Activity and Group dropdown lists of the Operations section (see Operations Section for more information), and the Process list. The processing jobs are arranged by group and activity (per application). Select an application from the Activity dropdown list and a group from the Group dropdown list to display the available jobs in the Process list. The job at the top of the Process list is highlighted.

To highlight a job, click the name of the job in the Process list. If you want to highlight multiple jobs that are adjacent in the Processes table, highlight the name of the first desired job, and then press SHIFT until you highlight the name of the last desired job. If you want to highlight multiple jobs that are not adjacent in the table, highlight the name of the first desired job, and then press CTRL while you highlight the names of the other desired jobs.

⚠️ Some jobs must be submitted individually rather than simultaneously with other jobs. See Performing Processing Jobs to determine if a job can be submitted simultaneously.
2.1.1.2 Market Hierarchy Selection and Event Selection Tables

The table that appears on the right side of the Start Processes section varies based on the application and processing job you are using, and in some cases, selecting a job results in the table not appearing. The tables that may appear are as follows:

- **Event Selection** table – The Event Selection table only appears when you select jobs for the Markdown or Promotion activities. This table consists of a two-level hierarchy tree of markets in which you can select a checkbox at the top level to include all sublevels or you can select an individual sublevel. The top level of the hierarchy tree is dependent upon the status dropdown list.

- **Market Hierarchy Selection** table – The Market Hierarchy Selection table only appears when you select jobs for the Regular activity. This table consists of a multilevel hierarchy tree of events in which you can select checkboxes for the top level containing all levels and sublevels, a level containing sublevels, or an individual sublevel. The top level of the hierarchy tree is the Enterprise market.

You can perform the following hierarchy tree actions for the tables:

- To expand any level containing sublevels, click the plus sign next to the desired level.
- To collapse an expanded level, click the minus sign next to the desired level.
- To select all the sublevels within a level, select the checkbox for the level.
- To select all the levels of the Event Selection table hierarchy tree, select the checkbox for the top level of the hierarchy tree.
- To select all the levels of the Market Hierarchy Selection table hierarchy tree, select the Enterprise market checkbox.

The Event Selection table has one filter, the Status dropdown list, while the Market Hierarchy Selection table does not have any filters. From the Status dropdown list, you can select one of the following event status conditions to restrict the events that appear in the Event Selection table to those having the status condition you selected:

- **All**
- **Open**
- **Pending**
- **Closed**
- **Approved**
- **Delivered**

2.1.1.3 Start Processes Functions

Depending on the application you are using and the processing job you select, the following function buttons may be available in the Start Processes section to perform a variety of actions related to performing processing jobs:

- **Clear All** – Click Clear All to deselect any selected checkboxes in the Market Hierarchy Selection table.
- **Expand Selected** – Click the row for the Enterprise market in the Market Hierarchy Selection table or a row that contains collapsed levels or sublevels to highlight the row, and then click Expand Selected to expand the collapsed levels and sublevels. This function is only available for jobs for the Regular activity. It is only enabled after you click a row in the Market Hierarchy Selection table.
• **Collapse All** – Click **Collapse All** to collapse all expanded levels and sublevels in the Market Hierarchy Selection table except the Enterprise market. This function does not select or deselect checkboxes for levels or sublevels; in fact, collapsed hierarchy trees do not indicate the presence of selected checkboxes unless the checkbox for the level containing the sublevels was selected prior to being collapsed. This function is only available for jobs for the Regular activity.

• **Submit** – Click **Submit** to submit jobs to JPS for execution. This function is available for all jobs.

• **Refresh** – Click **Refresh** to update the events in the Event Selection table. This function is only available for jobs for the Markdown or Promotion activities.

### 2.1.2 Operations Section

The Operations section consists of the following:

- **Filtered Processes table**
- **Filters** section
- **Operations** functions

#### 2.1.2.1 Filtered Processes Table

The Filtered Processes table displays processing jobs with the following possible status conditions:

- **New**
- **Viewed**
- **Running**
- **Complete**
- **Error**
- **Warning**
- **Requested**
- **Posted**
- **Cancelled**
- **Invalid**
- **In Process**
- **Cleared**
- **Started**
- **Stopped**

Initially, the columns in the Filtered Processes table may not be wide enough to display the contents of all the cells fully. To change the width of a column, rest the pointer on the heading column boundary of the column you want to move until it becomes a double-headed arrow ↔, and then drag the boundary until the column is the desired width.

To view specific information for a job, double-click the row in the Filtered Processes table for the desired job. The View Process dialog box opens and displays the information for the selected job in textboxes. Click **OK** to close the dialog box.

To sort the jobs in the Filtered Processes table by column, double-click on the header of the column you want to use for sorting. If a down arrow appears in the header, the sort is in ascending order. If the up
arrow appears, the sort is in descending order. Each time you double-click the header, the sort order changes.

If there is a long list of jobs in the Filtered Processes table, adjust the split plane to provide enough space to view the status conditions. You can also click the down arrow at the lower edge of the Operations section adjacent to the split pane to expand the Filtered Processes table. To restore the Filtered Processes table to its original size, click the up arrow at the lower edge of the Operations section adjacent to the split pane.

To highlight a job, click the row in the Filtered Processes table for the desired job. If you want to highlight multiple jobs that are adjacent in the Filtered Processes table, highlight the first desired job, and then press SHIFT until you highlight the last desired job. If you want to highlight multiple jobs that are not adjacent in the table, highlight the first desired job, and then press CTRL while you highlight on the other desired jobs. After you have highlighted a job, you can perform certain operations for that job using JPS (see JPS Operations for more information).

You can use the filters and functions provided in the Operations section to display the status conditions of specific jobs in the Filtered Processes table (see Filters Section and Operations Section for more information).

2.1.2.2 Filters Section
You can use the following filters in the Filters section to specify which processing jobs appear in the Filtered Processes table:

- **Activity** – From the Activity dropdown list, select the application that contains the desired jobs, or select **All** to include jobs in all applications. This filter restricts the jobs that appear in the Filtered Processes table to those within the application you specified, unless you selected **All**, in which case this filter does not apply any restrictions. The Group dropdown list automatically updates with the groups available for the selected application.

- **Group** – From the Group dropdown list, select the group that contains the desired jobs, or select **All** to include jobs in all groups for the selected application. The groups displayed in the Group dropdown list are a function of the selected application. This filter restricts the jobs that appear in the Filtered Processes table to those within the group you specified, unless you selected **All**, in which case this filter does not apply any restrictions. The Process dropdown list automatically updates with the processing jobs available for the selected group.

- **Process** – From the Process dropdown list, select the desired job, or select **All** to include all the jobs for the selected group. The jobs displayed in the Process dropdown list are a function of the selected group. This filter restricts the jobs that appear in the Filtered Processes table to the job you specified, unless you selected **All**, in which case this filter does not apply any restrictions.

- **Status** – From the Status box, select the status checkboxes for the jobs that appear in the Filtered Processes table. You may select one or more status checkboxes. If you select **All**, the other status checkboxes are unavailable. If you do not select any status checkboxes, a message appears when you try to apply the filters or refresh the Filtered Processes table. This filter restricts the jobs that appear in the Filtered Processes table to those having the status conditions you specified.

- **Market Filter** – Select the Market Filter checkbox, and then select the checkboxes for the desired markets in the Market Hierarchy Selection table in the Start Processes section (see Market Hierarchy Selection and Event Selection Table for more information) to display only the jobs associated with the selected markets.

- **Not Run Filter** – Select the Not Run Filter checkbox and the Market Filter checkbox, and then select the checkboxes for the desired markets in the Market Hierarchy Selection table in the Start Processes section (see Market Hierarchy Selection and Event Selection Table for more information) to display
jobs for the selected markets that have not been run yet in the Filtered Processes table. See Determining Processing Jobs Not Run for more information.

- **Current User** – Select the Current User checkbox to display only the jobs submitted by the user who is currently logged in.
- **Start Date/End Date** – Click the calendar icon next to the Start Date indicator, and then select a start date and time. Click the calendar icon next to the End Date indicator, and then select an end date and time. This filter restricts the jobs that appear in the Filtered Processes table to those within the start and end times you specified.

To apply your filter selections, click Apply. After you click Apply, an updated list of jobs specified by the filters appears in the Filtered Processes table. See Using Filters for more information.

### 2.1.2.3 Operations Functions

You can use the following function buttons in the Operations section to perform a variety of actions related to processing jobs:

- **Refresh** – Click Refresh to submit the filter settings you selected. The Filtered Processes table displays jobs that comply with the selected filter settings.
- **Enable Timer** – Click Enable Timer to launch the Timer Delay Settings dialog box. This dialog box allows you to set an update timer that automatically sends updates to the Filtered Processes table, with a time delay between updates that is specified in seconds or minutes. The default status setting for the timer is disabled. To activate the timer, select the Enable Timer checkbox in the Timer Delay Settings dialog box. After you select this checkbox, the Timer Delay slider and the Delay Units box are enabled. The default timer delay is six seconds. To increase the timer delay, move the Timer Delay slider to the right. The default setting for the Delay Units box is Seconds. For the Seconds setting, the absolute minimum delay allowed is 4 seconds, so the slider resets to 4 seconds if you choose a lower value. To change the timer units, click Minutes in the Delay Units box. For the Minutes setting, the absolute minimum delay allowed is 1 minute, so the slider resets to 1 minute if you choose a lower value. After you set the timer and close the Timer Delay Settings dialog box, the name of the Enable Timer button changes to Timer and displays the time delay you set. See Enabling the Timer and Disabling the Timer for more information.

- **Change Status** – Click Change Status to open the Change Status dialog box. To enable Change Status, you must highlight at least one job from the Filtered Processes table. The Change Status dialog box allows you to change the status condition of the jobs you highlighted (see Filtered Processes Table for a list of the possible status conditions). After you select the desired status and close the dialog box, the Filtered Processes table displays the jobs you changed with the selected status condition. See Changing Status Conditions of Processing Jobs for more information.

- **Resubmit** – Click Resubmit to submit jobs again for processing. To enable Resubmit, you must only highlight jobs that do not have a status condition of Requested, Posted, or Running. See Resubmitting Processing Jobs for more information.

- **Cancel** – Click Cancel to cancel jobs. To enable Cancel, you must only highlight jobs that do not have a status condition of Complete, Error, or Cancelled. See Cancelling Processing Jobs for more information.

- **Delete** – Click Delete to delete a job from the Filtered Processes table. To enable Delete, you must only highlight jobs with a status condition of Error. See Deleting Processing Jobs for more information.

- **Select All** – Click Select All to highlight all the jobs listed in the Filtered Processes table.

- **Clear All** – Click Clear All to deselect all highlighted jobs in the Filtered Processes table.
2.2 JPS Operations

The following procedures provide the instructions to perform basic operations using the filters and functions (see Filtered Processes Table and Operations Functions) in the Operations tab page:

- Using filters
- Enabling the timer
- Disabling the timer
- Determining processing jobs not run
- Resubmitting processing jobs
- Changing status conditions of processing jobs
- Cancelling processing jobs
- Deleting processing jobs

For information about performing processing jobs, see Performing Processing Jobs.

2.2.1 Using Filters

Use

You can use filters to specify the status conditions of the processing jobs that appear in the Filtered Processes table.

Prerequisites

None

Procedure

1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Click the calendar icon next to the Start Date indicator.
   The Select Date dialog box appears.
3. Select a start date and time, and then click OK.
   The dialog box closes, and the Start Date indicator displays the start date and time you selected.
4. Click the calendar icon next to the End Date indicator.
   The Select Date dialog box appears.
5. Select an end date and time, and then click OK.
   The dialog box closes, and the End Date indicator displays the end date and time you selected.
6. Select the application that contains the desired jobs from the Activity dropdown list in the Operations section, or select All to include jobs in all applications.
7. Select the group that contains the desired jobs from the Group dropdown list in the Operations section, or select All to include jobs in all groups for the selected application.
8. Select the desired job from the Process dropdown list, or select All to include all the jobs for the selected group.
9. Select the status checkboxes of the desired jobs from the Status box.

10. If applicable, select the Market Filter checkbox, and then select the checkboxes of the desired markets from the Market Hierarchy Selection table.

11. If applicable, select the Current User checkbox.

12. Click Apply.

Jobs specified by the filters appear in the Filtered Processes table.

### 2.2.2 Enabling the Timer

**Use**
You can enable the timer to automatically update the status displays of jobs in the Filtered Processes table.

**Prerequisites**
None

**Procedure**
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Click Enable Timer to launch the Timer Delay Settings dialog box.
   The Timer Delay Settings dialog box appears.
3. Select the Enable Timer checkbox to enable the timer.
4. Click Seconds or Minutes to set the desired timer units.
5. Move the slider to set the desired time delay, and then click OK.
   The dialog box closes, the settings are saved, and the name of the Enable Timer button changes to Timer and displays the time delay you set.

### 2.2.3 Disabling the Timer

**Use**
You can disable the timer to stop automatically updating the status displays of jobs in the Filtered Processes table.

**Prerequisites**
None
**Procedure**

1. Choose Processing on the navigation panel of the home page.
   
   The Operations tab page appears.

2. Click the Timer button, which displays the current timer settings, to launch the Timer Delay Settings dialog box.
   
   The Timer Delay Settings dialog box appears.

3. Deselect the Enable Timer checkbox to disable the timer.

4. Click OK.
   
   The dialog box closes, and the name of the Timer button changes to Enable Timer and does not display a time delay setting.

### 2.2.4 Determining Processing Jobs Not Run

**Use**

You can display the processing jobs that have not been run yet for a certain market in the Filtered Processes table.

**Prerequisites**

None

**Procedure**

1. Choose Processing on the navigation panel of the home page.
   
   The Operations tab page appears.

2. Select the Not Run Filter check box.

3. Select the Market Filter check box.

```
You must select checkboxes from the lowest sublevel of the hierarchy tree in the Market Hierarchy Selection table. This filter does not apply to any levels of the hierarchy tree above the lowest sublevel.
```

4. Select the checkboxes for the desired markets to be processed in the Market Hierarchy Selection table.

5. Click Apply.
   
   All the jobs for the selected sublevels that have not been run yet appear in the Filtered Processes table.

### 2.2.5 Resubmitting Processing Jobs

**Use**

You can resubmit processing jobs in the Filtered Processes table that do not have a status condition of Requested, Posted, or Running.
Prerequisites
The Filtered Processes table displays at least one job that does not have a status condition of Requested, Posted, or Running.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Highlight the desired jobs in the Filtered Processes table.
   To highlight a job, click the row in the Filtered Processes table for the desired job. If you want to highlight multiple jobs that are adjacent in the Filtered Processes table, highlight the first desired job, and then press SHIFT until you highlight the last desired job. If you want to highlight multiple jobs that are not adjacent in the table, highlight the first desired job, and then press CTRL while you highlight the other desired jobs.
3. Ensure the highlighted jobs do not have a status condition of Requested, Posted, or Running, and then click Resubmit.
   A message appears indicating the jobs have been submitted.
4. Click OK.

2.2.6 Changing Status Conditions of Processing Jobs

Use
You can change the status conditions of processing jobs in the Filtered Processes table.

Prerequisites
The Filtered Processes table displays at least one job.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Highlight the desired jobs in the Filtered Processes table.
   To highlight a job, click the row in the Filtered Processes table for the desired job. If you want to highlight multiple jobs that are adjacent in the Filtered Processes table, highlight the first desired job, and then press SHIFT until you highlight the last desired job. If you want to highlight multiple jobs that are not adjacent in the table, highlight the first desired job, and then press CTRL while you highlight the other desired jobs.
3. Click Change Status.
   The Change Status dialog box appears.
Since a job can be changed to any of the available status conditions, ensure you select the appropriate status condition.

4. Select the desired status condition from the Select a new status dropdown list, and then click OK. The dialog box closes, and a message to confirm the change appears.

5. Click OK. The jobs you changed appear in Filtered Processes table with the new status condition.

### 2.2.7 Cancelling Processing Jobs

#### Use
You can cancel processing jobs in the Filtered Processes table that have a status condition of Requested, Posted, or Running.

- If you cancel a job that has a status condition of Running, the current step for the job completes, but the job does not continue to the next step.

#### Prerequisites
The Filtered Processes table displays at least one job with the status condition of Requested, Posted, or Running.

#### Procedure
6. Choose Processing on the navigation panel of the home page. The Operations tab page appears.

7. Highlight the jobs in the Filtered Processes table that you want to cancel.

- To highlight a job, click the row in the Filtered Processes table for the desired job. If you want to highlight multiple jobs that are adjacent in the Filtered Processes table, highlight the first desired job, and then press SHIFT until you highlight the last desired job. If you want to highlight multiple jobs that are not adjacent in the table, highlight the first desired job, and then press CTRL while you highlight the other desired jobs.

8. Ensure the highlighted jobs have a status condition of Requested, Posted, or Running, and then click Cancel.

The status conditions of the jobs you cancelled appear in Filtered Processes table with the status condition of Cancelled.

### 2.2.8 Deleting Processing Jobs

#### Use
You can delete processing jobs in the Filtered Processes table that have a status condition of Error.

#### Prerequisites
The Filtered Processes table displays at least one job with the status condition of Error.
Procedure

1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.

2. Highlight the jobs in the Filtered Processes table that you want to delete.
   To highlight a job, click the row in the Filtered Processes table for the desired job. If you want to highlight multiple jobs that are adjacent in the Filtered Processes table, highlight the first desired job, and then press SHIFT until you highlight the last desired job. If you want to highlight multiple jobs that are not adjacent in the table, highlight the first desired job, and then press CTRL while you highlight the other desired jobs.

3. Ensure the highlighted jobs have a status condition of Error, and then click Delete.
   The jobs you deleted no longer appear in the Filtered Processes table.

2.3 JPS Maintenance

You can modify processing jobs using the maintenance features of JPS. Each processing job consists of one or more steps, and each step may consist of one or more stored procedures, science components, or business logic. You can use the maintenance features of JPS to include or exclude steps for a processing job and to edit the contents of the steps.

You can access the maintenance features of JPS using the Maintenance tab page. To launch the Maintenance tab page, choose Processing on the navigation panel of the home page. The Operations tab page appears. Choose the Maintenance tab. The Maintenance tab page appears.

The Maintenance tab page consists of the following:

- Filters section
- Filtered Processes table

2.3.1 Filters Section

You can use the following filters in the Filters section to specify which processing jobs appear in the Filtered Processes table:

- Activity – From the Activity dropdown list, select the application that contains the desired jobs. This filter restricts the jobs that appear in the Filtered Processes table to those within the application you specified. The Group dropdown list automatically updates with the groups available for the selected application.

- Group – From the Group dropdown list, select the group that contains the desired jobs. The groups displayed in the Group dropdown list are a function of the selected application. This filter restricts the jobs that appear in the Filtered Processes table to those within the group you specified.

To apply the filter selections you made, click Apply. The Filtered Processes table displays the processing jobs available for the selected group.
2.3.2 Filtered Processes Table

The Filtered Processes table displays the processing jobs you may modify. The processing jobs that appear in this table are based on the filters you applied in the Filter Process section. This table consists of a multilevel hierarchy tree of jobs, steps, and stored procedures.

You can perform the following hierarchy tree actions for the Filtered Processes table:

- To expand a job or a step, click the plus sign next to the desired job or step.
- To collapse an expanded job or step, click the minus sign next to the desired job or step.

After you expand a job, the steps appear under the job with checkboxes. You can then expand the steps to display the stored procedures with checkboxes under the steps. Only certain steps contain stored procedures.

The checkboxes for the steps and stored procedures appear selected as the default. To exclude a step or stored procedure from a job, deselect the checkbox for that step or stored procedure. You can select a checkbox to include a step or stored procedure that had been previously excluded from a job. To apply the modifications you made to the jobs, click Submit.

2.3.3 Modifying Processing Jobs

Use

You can modify a processing job to include or exclude steps or stored procedures.

Prerequisites

None

Procedure

1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Choose the Maintenance tab.
   The Maintenance tab page appears.
3. Select the application that contains the desired jobs from the Activity dropdown list in the Filters section.
4. Select the group that contains the desired jobs from the Group dropdown list in the Filters section.
5. Click Apply.
   The Filtered Processes table displays the processing jobs available for the selected group.
6. Click the plus signs next to the desired jobs or steps.
   Checkboxes appear under the selected jobs or steps.
7. Select or deselect the checkboxes for the desired steps or stored procedures for the desired jobs from the Filtered Processes table.
8. Choose Submit.
   The modifications you made to the processing jobs are saved.
2.4 JPS Log

The JPS log provides a historical log of submitted processing jobs. You can access the JPS Log using the Log tab page. To launch the Log tab page, choose Processing on the navigation panel of the home page. The Operations tab page appears. Choose the Log tab. The Log tab page appears.

The Log tab page consists of the following:

- Filters section
- Filtered Log table

2.4.1 Filters Section

You can use the following filters in the Filters section to specify which processing jobs appear in the Filtered Log table:

- **Activity** – From the Activity dropdown list, select the application that contains the desired jobs. This filter restricts the jobs that appear in the Filtered Log table to those within the application you specified. The Group dropdown list automatically updates with the groups available for the selected application.

- **Group** – From the Group dropdown list, select the group that contains the desired jobs. The groups displayed in the Group dropdown list are a function of the selected application. This filter restricts the jobs that appear in the Filtered Log table to those within the group you specified. The Process list automatically updates with the processing jobs available for the selected group.

- **Process** – From the Process list, select the desired job. The jobs displayed in the Process dropdown list are a function of the selected group. This filter restricts the jobs that appear in the Filtered Log table to the job you specified.

- **Current User** – Select the Current User checkbox to display only the jobs submitted by the user who is currently logged in.

- **Status** – From the Status box, select the status checkboxes for the jobs that appear in the Filtered Log table. You may select one or more status checkboxes. If you select All, the other status checkboxes are unavailable. If you do not select any status checkboxes, a message appears when you try to apply the filters or refresh the Filtered Log table. This filter restricts the jobs that appear in the Filtered Log table to those having the status conditions you specified.

- **Market Hierarchy Selection table/Event Selection table** – Select checkboxes from these tables to specify markets or events. This filter restricts the jobs that appear in the Filtered Log table to those submitted for the market or event you selected. See Market Hierarchy Selection and Event Selection Tables for more information on these filters.

- **Start Date/End Date** – Click the calendar icon next to the Start Date indicator, and then select a start date and time. Click the calendar icon next to the End Date indicator, and then select an end date and time. This filter restricts the jobs that appear in the Filtered Log table to those within the start and end times you specified.

To apply your filter selections, click Apply. After you click Apply, an updated list of jobs specified by the filters appears in the Filtered Log table.
2.4.1.1 Market Hierarchy Selection and Event Selection Tables

The table that appears in the Filters section varies based on the application and processing job you are using, and in some cases, selecting a job results in the table not appearing. The tables that may appear are as follows:

- **Event Selection table** – The Event Selection table only appears when you select jobs for the Markdown or Promotion activities. This table consists of a two-level hierarchy tree of markets in which you can select a checkbox at the top level to include all sublevels or you can select an individual sublevel. The top level of the hierarchy tree is dependent upon the status dropdown list.

- **Market Hierarchy Selection table** – The Market Hierarchy Selection table only appears when you select jobs for the Regular activity. This table consists of a multilevel hierarchy tree of events in which you can select checkboxes for the top level containing all levels and sublevels, a level containing sublevels, or an individual sublevel. The top level of the hierarchy tree is the Enterprise market.

You can perform the following hierarchy tree actions for the tables:

- To expand any level containing sublevels, click the plus sign next to the desired level.
- To collapse an expanded level, click the minus sign next to the desired level.
- To select all the sublevels within a level, select the checkbox for the level.
- To select all the levels of the Event Selection table hierarchy tree, select the checkbox for the top level of the hierarchy tree.
- To select all the levels of the Market Hierarchy Selection table hierarchy tree, select the Enterprise market checkbox.

The following function buttons are available for the Market Hierarchy Selection table:

- **Clear All** – Click Clear All to deselect any selected checkboxes in the Market Hierarchy Selection table.
- **Expand Selected** – Click the row for the Enterprise market in the Market Hierarchy Selection table or a row that contains collapsed levels or sublevels, and then click Expand Selected to expand the collapsed levels and sublevels. It is only enabled after you click a row in the Market Hierarchy Selection table.
- **Collapse All** – Choose Collapse All to collapse all expanded levels and sublevels in the Market Hierarchy Selection table except the Enterprise market. This function does not select or deselect checkboxes for levels or sublevels; in fact, collapsed hierarchy trees do not indicate the presence of selected checkboxes unless the checkbox for the level containing the sublevels was selected prior to being collapsed.

The Event Selection table has one filter, the Status dropdown list, while the Market Hierarchy Selection table does not have any filters. From the Status dropdown list, you can select one of the following event status conditions to restrict the events that appear in the Event Selection table to those having the status condition you selected:

- **All**
- **Open**
- **Pending**
- **Closed**
2.4.2 Filtered Log Table

The Filtered Log table displays the historical information for the submitted processing jobs logged in the JPS log. Choose Refresh to update the historical information for the jobs in the Filtered Log table.

The logged jobs may have the following possible status conditions:

- New
- Viewed
- Running
- Complete
- Error
- Warning
- Requested
- Posted
- Cancelled
- Invalid
- In Process
- Cleared
- Started
- Stopped

Initially, the columns in the Filtered Log table may not be wide enough to display the contents of all the cells fully. To change the width of a column, rest the pointer on the heading column boundary of the column you want to move until it becomes a double-headed arrow ↔, and then drag the boundary until the column is the desired width.

To sort the jobs in the Filtered Log table by column, double-click on the header of the column you want to use for sorting. If a down arrow appears in the header, the sort is in ascending order. If the up arrow appears, the sort is in descending order. Each time you double-click the header, the sort order changes.

If there is a long list of jobs in the Filtered Log table, adjust the split plane to provide enough space to view the jobs. You can also click the up arrow at the upper edge of the Filtered Log table adjacent to the split pane to expand the table the length of the page. To restore the table to its original size, click the down arrow at the upper edge of the table adjacent to the split pane.

Choose Enable Timer to launch the Timer Delay Settings dialog box. This dialog box allows you to set an update log timer that automatically sends updates to the Filtered Log table, with a time delay between updates that is specified in seconds or minutes. The default status setting for the log timer is disabled. To activate the log timer, select the checkbox for Enable Timer in the Timer Delay Settings dialog box. After you select the checkbox for Enable Timer, the Timer Delay slider and the Delay Units box are enabled. The default log timer delay is six seconds. To increase the log timer delay, move the Timer Delay slider to the right. The default setting for the Delay Units box is Seconds. For the Seconds setting, the absolute minimum delay allowed is 4 seconds, so the slider resets to 4 seconds if you choose a lower value. To change the log timer units, click Minutes in the Delay Units box. For the Minutes setting, the absolute...
minimum delay allowed is 1 minute, so the slider resets to 1 minute if you choose a lower value. After you set the timer and close the Timer Delay Settings dialog box, the name of the Enable Timer button changes to Timer and displays the time delay you set. See Enabling the Log Timer and Disabling the Log Timer for more information.

2.4.3 Displaying Logged Jobs

Use
You can display logged jobs in the Filtered Log table using the filters in the Filters section.

Prerequisites
Jobs have been submitted for JPS execution.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Choose the Log tab.
   The Log tab page appears.
3. Select the application that contains the desired jobs from the Activity dropdown list in the Filters section.
4. Select the group that contains the desired jobs from the Group dropdown list.
   The Process list displays the processing jobs for the selected group.
5. Highlight the desired jobs in the Process list.

   To highlight a job, click the row in the Process list for the desired job. If you want to highlight multiple jobs that are adjacent in the Process list, click the first desired job, and then press SHIFT until you click the last desired job. If you want to highlight multiple jobs that are not adjacent in the list, click the first desired job, and then press CTRL while you click on the other desired jobs.

6. If applicable, select the Current User checkbox.
7. Select the status checkboxes of the desired jobs from the Status box.
8. If applicable, select the checkboxes for the desired events in the Event Selection table or the desired markets in the Market Hierarchy Selection table.
9. Click the calendar icon next to the Start Date indicator.
   The Select Date dialog box appears.
10. Select a start date and time, and then click OK.
   The dialog box closes, and the Start Date indicator displays the start date and time you selected.
11. Click the calendar icon next to the End Date indicator.
   The Select Date dialog box appears.
12. Select an end date and time, and then click OK.
   The dialog box closes, and the End Date indicator displays the end date and time you selected.
13. Click Apply.
   Jobs specified by the filters appear in the Filtered Log table.

2.4.4 Enabling the Log Timer

Use
You can enable the log timer to automatically update the logged jobs in the Filtered Log table.

Prerequisites
None

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Choose the Log tab.
   The Log tab page appears.
3. Click Enable Timer to launch the Timer Delay Settings dialog box.
   The Timer Delay Settings dialog box appears.
4. Select the Enable Timer checkbox to enable the timer.
5. Click Seconds or Minutes to set the desired timer units.
6. Move the slider to set the desired time delay, and then click OK.
   The dialog box closes, the settings are saved, and the name of the Enable Timer button changes to Timer and displays the time delay you set.

2.4.5 Disabling the Log Timer

Use
You can disable the log timer to stop automatically updating the logged jobs in the Filtered Log table.

Prerequisites
None

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Choose the Log tab.
   The Log tab page appears.
3. Click the *Enable Timer* button, which displays the current timer settings, to launch the *Timer Delay Settings* dialog box.

The *Timer Delay Settings* dialog box appears.

4. Deselect the *Enable Timer* checkbox to disable the timer.

5. Click *OK*.

The dialog box closes, and the name of the *Timer* button changes to *Enable Timer* and does not display a time delay setting.

### 2.5 JPS System and Server Parameters

The JPS system and servers has a set of parameters that have values you can edit. You can access the editable parameter values using the *Parameters* tab page. To launch the *Parameters* tab page, choose *Processing* on the navigation panel of the home page. The *Operations* tab page appears. Choose the *Parameters* tab. The *Parameters* tab page appears.

The *Parameters* tab page consists of the following:

- *JPS System Parameters* table
- *JPS Server Parameters* table

#### 2.5.1 JPS System Parameters Table

The *JPS System Parameters* table displays JPS system parameters that have values you can change. Initially, the columns in the *JPS System Parameters* table may not be wide enough to display the contents of all the cells fully. To change the width of a column, rest the pointer on the heading column boundary of the column you want to move until it becomes a double-headed arrow ↔, and then drag the boundary until the column is the desired width.

If you cannot view all of the parameters in the *JPS System Parameters* table, adjust the split plane to provide enough space to view the parameters. You can also click the down arrow at the lower edge of the *JPS System Parameters* table adjacent to the split pane to expand the table the length of the page. To restore the table to its original size, click the up arrow at the lower edge of the table adjacent to the split pane.

To edit the value of a parameter, you can click in the cell in *Value* column for the parameter and then change the value. Depending on the specific parameter, you may change the value in the cell you clicked using one of the following possible methods:

- Type the new value in the cell and press *ENTER*.
- Use the up arrow at the cell boundary to increase the value or the down arrow at the cell boundary to decrease the value and then click in a different cell.

You can click *Update* to accept the new values or *Reset* to return to the previous values.

#### 2.5.2 JPS Server Parameters Table

The *JPS Server Parameters* table displays parameters for JPS servers that you can change. To view the parameters for the JPS servers, you must first select a server from the *Select a Server* dropdown list and then click *Apply*. After you click *Apply*, the parameters appear in the *JPS Server Parameters* table for the selected server.

Initially, the table columns in the *JPS Server Parameters* table may not be wide enough to display the contents of all the cells fully. To change the width of a column, rest the pointer on the heading column boundary of the column you want to move until it becomes a double-headed arrow ↔, and then drag the boundary until the column is the desired width.
If you cannot view all of the parameters in the JPS System Parameters table, adjust the split plane to provide enough space to view the parameters. You can also click the up arrow at the upper edge of the JPS Server Parameters table adjacent to the split pane to expand the table the length of the page. To restore the table to its original size, click the down arrow at the lower edge of the table adjacent to the split pane.

### 2.5.3 Modifying JPS System Parameters

**Use**

You can modify the JPS system parameters using the Parameters tab page.

**Prerequisites**

None

**Procedure**

1. Choose Processing on the navigation panel of the home page.
   
   The Operations tab page appears.

2. Choose the Parameters tab.
   
   The Parameters tab page appears.

3. Click the desired cell in the Value column for the parameter you want to change.

4. Type the new value in the cell or adjust it using the up or down arrows at the cell boundary, and then press `ENTER` or click in a different cell.

   The new value in the cell appears in red text in the JPS System Parameters table.

5. When you have finished changing parameters, verify the parameter values are correct:
   
   - Click `Update` to accept the new values.
   - Click `Reset` to reject the new values and leave the JPS System Parameters table unchanged.

If you have changed values in the JPS System Parameters table and try to navigate away from the Parameters tab page prior to choosing Update or Reset, a message appears asking if you want to update the table based on the changes you made. Choose Update to accept the new values, or choose Do Not Update to reject the new values.

### 2.5.4 Modifying JPS Server Parameters

**Use**

You can modify the JPS server parameters using the Parameters tab page.

**Prerequisites**

None
Procedure

1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.

2. Choose the Parameters tab.
   The Parameters tab page appears.

3. Select the desired server from the Select a Server dropdown list in the JPS Servers Parameters table, and then click Apply.
   The JPS Servers Parameters table displays the parameters for the selected server.

4. Click the desired cell in the Value column for the parameter you want to change.

5. Type the new value in the cell or adjust it using the up or down arrows at the cell boundary, and then press ENTER or click in a different cell.
   The new value appears in red text in the JPS Servers Parameters table.

6. When you have finished changing parameters, verify the parameter values are correct:
   - Click Update to accept the new values.
   - Click Reset to reject the new values and leave the JPS Servers Parameters table unchanged.

   If you have changed values in the JPS Servers Parameters table and try to navigate away from the Parameters tab page prior to choosing Update or Reset, a message appears asking if you want to update the table based on the changes you made. Click Update to accept the new values, or click Do Not Update to reject the new values.
3 Performing Processing Jobs

You can use JPS to perform processing jobs for the following applications:

- Markdown Optimization
- Promotion Optimization
- Retail Price Optimization

3.1 Markdown Optimization

You can perform several processing jobs specifically for the Markdown Optimization application. These jobs are contained in the following groups:

- Daily Processing
- Weekly Imports
- Re-Optimization
- Other

3.1.1 Daily Processing

The *Daily Processing* group for the Markdown Optimization application includes the processing jobs that you can perform on a daily basis. These jobs include the following:

- *Import Daily Feeds*
- *Daily Markdown Status Update*
- *Markdown Build Price File*

You can submit these jobs individually or simultaneously. Generally, the *Import Daily Feeds* and *Daily Markdown Status Update* jobs are to be run in the morning, depending on the delivery time of the import files. The *Markdown Build Price File* job needs to be run at a time agreed upon by current Markdown Optimization application users, since users must know how long they have to review and approve their markdown events before the events are sent to your IT department for import to the external pricing system.

3.1.1.1 Import Daily Feeds

Use

You can import updates to markdown events using the *Import Daily Feeds* job. This job imports the markdown detail import file into the application. This file may be provided daily to delete products from markdown events in response to activity in your source markdown system.

The *Import Daily Feeds* job performs the following tasks:

- Moves the import file from the existing location to the location from which it will be imported.
  - The import file is called *MDDETAIL.TXT*.
  - The existing location is defined in the *MarkdownCollectedFilesLocation* parameter.
  - The import location is defined in the *MarkdownImportLocation* parameter.
- Loads the data in the text file into the database.
Validates and processes the delete records in the data.

Copies the import file to the archive location, which is defined by the `MarkdownBackupLocation` parameter.

Deletes the import file.

The parameters are set during the initial customization. See the `Customizing Guide for SAP DM` for more information.

**Prerequisites**

- At least one markdown must have been successfully imported or created and exported at some time in the past.
- The information in the import file must be for an existing markdown event.
- The import file must exist in the expected location and have the expected name.

**Procedure**

1. Choose `Processing` on the navigation panel of the home page.
   
   The `Operations` tab page appears.

2. Select `Markdown` from the `Activity` dropdown list located in the `Start Processes` table.

3. Select `Daily Processing` from the `Group` dropdown list located in the `Start Processes` table.
   
   The `Process` list displays the processing jobs for the `Daily Processing` group.

4. Highlight `Import Daily Feeds` in the `Process` list, and then click `Submit`.

**3.1.1.2 Daily Markdown Status Update**

**Use**

You can update the status of markdown events using the `Daily Markdown Status Update` job. This job examines each markdown event in the system and changes the status, using the logic described in the `Markdown Optimization Guide for SAP DM`.

**Prerequisites**

There must be at least one markdown event in the Markdown Optimization application.

**Procedure**

1. Choose `Processing` on the navigation panel of the home page.
   
   The `Operations` tab page appears.

2. Select `Markdown` from the `Activity` dropdown list located in the `Start Processes` table.

3. Select `Daily Processing` from the `Group` dropdown list located in the `Start Processes` table.
   
   The `Process` list displays the processing jobs for the `Daily Processing` group.

4. Highlight `Daily Markdown Status Update` in the `Process` list, and then click `Submit`. 
### 3.1.1.3 Markdown Build Price File

#### Use

You can create the markdown files to be communicated to an external system using the `Markdown Build Price File` job. This job examines each markdown event in the system and, using the logic described in the [Markdown Optimization Guide for SAP DM](#), writes records to the export files: `MDPRICEFILE.TXT` and `MDDCINVALLOCFILE.TXT`. The export files are placed in the location defined by the `MDPriceFileDirectory` parameter.

![The parameters are set during the initial customization. See the Customizing Guide for SAP DM for more information.]

#### Prerequisites

There must be at least one markdown event that meets the export criteria.

#### Procedure

1. Choose `Processing` on the navigation panel of the home page.
   
   The `Operations` tab page appears.

2. Select `Markdown` from the `Activity` dropdown list located in the `Start Processes` table.

3. Select `Daily Processing` from the `Group` dropdown list located in the `Start Processes` table.
   
   The `Process` list displays the processing jobs for the `Daily Processing` group.

4. Highlight `Markdown Build Price File` in the `Process` list, and then click `Submit`.

### 3.1.2 Weekly Imports

The `Weekly Imports` group for the Markdown Optimization application includes the processing jobs that you can perform on a weekly basis. These jobs include the following:

- `Import Weekly Feeds`
- `ReOptimize Enterprise`
- `Import New Markdown File`
- `New Markdown Create (for Imports)`

You must perform these jobs individually.
3.1.2.1 Import Weekly Feeds

Use
You can import inventory information on a weekly basis using the Import Weekly Feeds job. This job imports the store inventory and distribution center inventory import files into the application. These files contain the inventory levels of products at stores and distribution centers.

The Import Weekly Feeds job performs the following tasks:
- Moves the import file from its existing location to the location from which it will be imported.
  - STOREINVENTORY.TXT and DCINVENTORY.TXT are the files that will be imported.
  - The existing location is defined in the MarkdownCollectedFilesLocation parameter to the MarkdownImportLocation parameter.
- Loads the data in the text files into the database.
- Validates the loaded data and updates the inventory information in the system.
- Copies the import files to the archive location, which is defined in the MarkdownBackupLocation parameter.
- Deletes the import files.

![The parameters are set during the initial customization. See the Customizing Guide for SAP DM for more information.]

Prerequisites
The import files must exist in the expected location and have the expected name.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Markdown from the Activity dropdown located in the Start Processes table.
3. Select Weekly Imports from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Weekly Imports group.
4. Highlight Import Weekly Feeds in the Process list, and then click Submit.

3.1.2.2 ReOptimize Enterprise

Use
You can re-optimize all markdown events on a weekly basis using the ReOptimize Enterprise job. This job allows the system to react to the latest inventory and sales information to adjust the markdown pricing and unit movement forecasts in active events. It examines every markdown event and executes the ESME, MOE, and MFE science components for each one.

![See Science Component Descriptions for more information.]

Prerequisites

- The *Import Weekly Feeds* job must be completed successfully.
- At least one markdown event must exist in the Markdown Optimization application.

Procedure

1. Choose *Processing* on the navigation panel of the home page.
   The *Operations* tab page appears.
2. Select *Markdown* from the *Activity* dropdown list located in the *Start Processes* table.
3. Select *Weekly Imports* from the *Group* dropdown list located in the *Start Processes* table.
   The *Process* list displays the processing jobs for the *Weekly Imports* group.
4. Highlight *ReOptimize Enterprise* in the *Process* list, and then click *Submit*.

### 3.1.2.3 Import New Markdown File

Use

You can import information about markdown events using the *Import New Markdown File* job. This job imports the *MDHEADER.TXT* and *MDDETAIL.TXT* files into the application. These files contain information about markdown events created in an external application you want the Markdown Optimization application to optimize and forecast.

The *Import New Markdown File* job performs the following tasks:

- Moves the *MDHEADER.TXT* and *MDDETAIL.TXT* files from the MarkdownCollectedFilesLocation parameter to the MarkdownImportLocation parameter.
- Loads the data in the text files into the database.
- Copies the *MDHEADER.TXT* and *MDDETAIL.TXT* files to the MarkdownBackupLocation.
- Deletes the *MDHEADER.TXT* and *MDDETAIL.TXT* files from the MarkdownImportLocation.

The parameters are set during the initial customization. See the *Customizing Guide for SAP DM* for more information.

Prerequisites

None

Procedure

1. Choose *Processing* on the navigation panel of the home page.
   The *Operations* tab page appears.
2. Select *Markdown* from the *Activity* dropdown list located in the *Start Processes* table.
3. Select *Weekly Imports* from the *Group* dropdown list located in the *Start Processes* table.
   The *Process* list displays the processing jobs for the *Weekly Imports* group.
4. Highlight *Import New Markdown File* in the *Process* list, and then click *Submit.*
3.1.2.4 New Markdown Create (for Imports)

Use
You can process the data loaded during the Import New Markdown File job using the New Markdown Create (for Imports) job. The New Markdown Create (for Imports) job performs the following tasks:

- Validates the loaded data and adds new markdown events to the Markdown Optimization application.
- Creates a temporary list of events added.
- Initiates the Markdown Process job for each new event (see Markdown Process for more information).

Prerequisites
The Import New Markdown File job must be completed successfully.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Markdown from the Activity dropdown list located in the Start Processes table.
3. Select Weekly Imports from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Weekly Imports group.
4. Highlight New Markdown Create (for Imports) in the Process list, and then click Submit.

3.1.3 Re-Optimization
The Re-Optimization group for the Markdown Optimization application includes the processing jobs that you can perform to re-optimize markdown events in the application. These jobs include the following:

- Store Modeling
- Markdown Optimization
- Markdown Forecasting
- Markdown Science Process (ESME, MOE, MFE)

Do not submit these jobs through the Operations tab page. Initiate these jobs using the Markdown Optimization application (see the Markdown Optimization Guide for SAP DM for more information).

3.1.3.1 Store Modeling

Use
You can perform store-level modeling on products and stores in one or more markdown events using the Store Modeling job. This job calls the ESME science component, which generates a demand model for every product/store combination on the markdown event.

See Science Component Descriptions for more information.
Prerequisites
There must be at least one markdown event in the Markdown Optimization application.

Procedure

This job is initiated using the Markdown Optimization application (see the Markdown Optimization Guide for SAP DM for more information). However, if you need to run this job for one or more markdown events for troubleshooting purposes, the following procedure is provided.

1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Markdown from the Activity dropdown list located in the Start Processes table.
3. Select Re-Optimization from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Re-Optimization group, and the Event Selection table appears in the Start Processes section.
5. Select Open from the Event Selection table Status dropdown list.
6. Select the checkboxes for the desired events to be processed in the Event Selection table, and then click Submit.

3.1.3.2 Markdown Optimization

Use
You can perform markdown optimization on one or more markdown events using the Markdown Optimization job. This job calls the MOE science component, which determines the optimal price and markdown structure for each product/store combination on a markdown event. It uses the demand model created by the ESME science component to perform the optimization.

See Science Component Descriptions for more information.

Prerequisites
The Store Modeling job must have been executed at least once for the event(s) to be optimized.

Procedure

This job is initiated using the Markdown Optimization application (see the Markdown Optimization Guide for SAP DM for more information). However, if you need to run this job for one or more markdown events for troubleshooting purposes, the following procedure is provided.

1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Markdown from the Activity dropdown list located in the Start Processes table.
3. Select Re-Optimization from the Group dropdown list located in the Start Processes table.

   The Process list displays the processing jobs for the Re-Optimization group, and the Event Selection table appears in the Start Processes section.


5. Select Open from the Status dropdown list.

6. Select the checkboxes for the desired events to be processed in the Event Selection table, and then click Submit.

### 3.1.3.3 Markdown Forecasting

**Use**

You can perform markdown forecasting on one or more markdown events using the Markdown Forecasting job. This job calls the MFE science component, which generates a forecast for every product/store combination on a markdown event. It uses the demand models created by ESME to calculate the forecast.

See Science Component Descriptions for more information.

**Prerequisites**

- The Store Modeling job must have been executed at least once for the event(s) to be optimized.
- The markdown price must be set either by MOE or through the Markdown Optimization application.

**Procedure**

This job is initiated using the Markdown Optimization application (see the Markdown Optimization Guide for SAP DM for more information). However, if you need to run this job for one or more markdown events for troubleshooting purposes, the following procedure is provided.

1. Choose Processing on the navigation panel of the home page.
   
   The Operations tab page appears.

2. Select Markdown from the Activity dropdown list located in the Start Processes table.

3. Select Re-Optimization from the Group dropdown list located in the Start Processes table.

   The Process list displays the processing jobs for the Re-Optimization group, and the Event Selection table appears in the Start Processes section.


5. Select Open from the Status dropdown list.

6. Select the checkboxes for the desired events to be processed in the Event Selection table, and then click Submit.
3.1.3.4 Markdown Science Process (ESME, MOE, MFE)

**Use**
You can model, optimize, and forecast a markdown event using the Markdown Science Process (ESME, MOE, MFE) job. This job calls the ESME, MOE, and MFE science components in sequence for a markdown event.

See Science Component Descriptions for more information.

**Prerequisites**
None

**Procedure**
This job is initiated using the Markdown Optimization application (see the Markdown Optimization Guide for SAP DM for more information). However, if you need to run this job for one or more markdown events, the following procedure is provided.

1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Markdown from the Activity dropdown list located in the Start Processes table.
3. Select Re-Optimization from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Re-Optimization group, and the Event Selection table appears in the Start Processes section.
5. Select Open from the Status dropdown list.
6. Select the checkboxes for the desired events to be processed in the Event Selection table, and then click Submit.

**3.1.4 Other**
The Other group for the Markdown Optimization application includes the following processing jobs that you can perform in addition to the previously described jobs:

- Mass Edit
- Markdown Process
- Markdown Event Delete
- Markdown Create Wizard Upload Process

Do not submit these jobs through the Operations tab page. Initiate these jobs using the Markdown Optimization application (see the Markdown Optimization Guide for SAP DM for more information).
3.1.4.1 Mass Edit

Use
You can generate a forecast for a set of products and stores on a markdown event after editing them in the Markdown Optimization application using the Mass Edit job.

Prerequisites
A markdown event must have had information about one or more products edited in the Markdown Optimization application, and after the information was edited, the Recalculate button must have been pressed.

Procedure
Do not submit this job through the Operations tab page.

3.1.4.2 Markdown Process

Use
You can model, optimize, and forecast a newly added markdown event using the Markdown Process job. This job calls the ESME, MOE, and MFE science components in sequence for a markdown event, and then deletes the temporary list of newly added markdown events. It is initiated by the New Markdown Create (for Imports) job.

See Science Component Descriptions for more information.

Prerequisites
The New Markdown Create (for Imports) job must have completed successfully.

Procedure
Do not submit this job through the Operations tab page.

3.1.4.3 Markdown Event Delete

The Markdown Event Delete job is obsolete. Do not submit this job through the Operations tab page.
3.1.4.4 Markdown Create Wizard Upload Process

Use
You can import details about new markdown events using the Markdown Create Wizard Upload Process job. This job is initiated by the Markdown Upload Wizard, which is described in the Markdown Optimization Guide for SAP DM.

The Markdown Create Wizard Upload Process job performs the following tasks:
- Moves the import file from its existing location to the location from which it will be imported.
  - The import file is MDDETAIL.TXT.
  - The current location is defined in the MarkdownWizardUploadLocation parameter.
  - The import location is defined in the MarkdownWizardProcessLocation parameter.
- Loads the data in the text files into the database.
- Copies the import file to the archive location, which is defined in the MarkdownWizardArchiveLocation parameter.
- Deletes the import file.
- Validates the loaded data and adds new markdown events to the system.
- Creates a temporary list of events added.
- Initiates the Markdown Process job for each new event (see Markdown Process).

The parameters are set during the initial customization. See the Customizing Guide for SAP DM for more information.

Prerequisites
The Markdown Create Wizard must have been used successfully.

Procedure
Do not submit this job through the Operations tab page.

3.2 Price Optimization
You can use JPS to perform several processing jobs for the Retail Price Optimization application. These jobs are contained in the following groups:
- JPS System Test Group
- CSO Processing Group
- CSO Summary Screen Processing Group
- System
- Build Client Price File
- Demand Modeling and Forecasting
Job Processing Guide for SAP DM
3 Performing Processing Jobs

- Client Side Forecast
- Import and Cleanse
- CSO Prep
- Initial System Set-Up

### 3.2.1 CSO Processing Group

The **CSO Processing Group** for the Retail Price Optimization application includes the processing jobs that you can perform to process CSO events. These jobs include the following:

- CSO Entry Point
- CSO Apply Business Rules and Run MM MSF
- CSO Run Market MSF
- CSO Price Change Logic
- CSO Run Market Target
- CSO Run MM Target
- CSO Set Price Change Cost
- CSO Run MM MSF
- CSO Run Market MSF/Market Target for Enterprise
- CSO Run Market Target
- CSO Run ASP
- CSO Run MM Target and Update opt_wb_table
- CSO Update PF Status and Send Alerts

⚠️ **Do not submit these jobs through the Operations tab page. Initiate these jobs through the Retail Price Optimization application’s Price Activity Wizard. See the Retail Price Optimization Guide for SAP DM for more information on using the Price Activity Wizard.**

### 3.2.1.1 CSO Entry Point

**Use**

The **CSO Entry Point** job submits each of the processing jobs required to create the price file. This job ensures the processing jobs run in the correct order and for all of the micromarkets as appropriate.

⚠️ **Do not submit this job through the Operations tab page.**
3.2.1.2 CSO Apply Business Rules and Run MM MSF

Use
The *CSO Apply Business Rules and Run MM MSF* job calculates a minimum and maximum price for each product in the price file. This job also creates the initial revenue opportunity curve for each micromarket in the price file.

⚠️ Do not submit this job through the *Operations* tab page.

3.2.1.3 CSO Run Market MSF

Use
The *CSO Run Market MSF* job creates the initial revenue opportunity curve for each zone included in the price file.

⚠️ Do not submit this job through the *Operations* tab page.

3.2.1.4 CSO Price Change Logic

Use
The *CSO Price Change Logic* job analyzes the curve created for each zone in the price file and determines if any of the zones violate the number of allowable price changes.

⚠️ Do not submit this job through the *Operations* tab page.

3.2.1.5 CSO Run Market Target

Use
The *CSO Run Market Target* job generates the optimal revenue and profit combination for each zone. This job provides output of the available prices changes you can analyze to find the most valuable price changes.

⚠️ Do not submit this job through the *Operations* tab page.

3.2.1.6 CSO Run MM Target

Use
The *CSO Run MM Target* job retrieves the output of the actual prices, which can be analyzed to find the most valuable pricing changes.

⚠️ Do not submit this job through the *Operations* tab page.
3.2.1.7 CSO Set Price Change Cost

Use
The CSO Set Price Change Cost job processes every price change and limits the number of price changes made in each micromarket.

⚠️ Do not submit this job through the Operations tab page.

3.2.1.8 CSO Run MM MSF

Use
The CSO Run MM MSF job rebuilds the micromarket level revenue opportunity curve with a limited set of price changes.

⚠️ Do not submit this job through the Operations tab page.

3.2.1.9 CSO Run Market MSF/Market Target for Enterprise

Use
The CSO Run Market MSF/Market Target for Enterprise job rebuilds the zone level revenue opportunity curve and then builds the market level revenue opportunity curve.

⚠️ Do not submit this job through the Operations tab page.

3.2.1.10 CSO Run Market Target

Use
The CSO Run Market Target job picks the point on the enterprise revenue opportunity curve that best matches the user-defined goals for the price file.

⚠️ Do not submit this job through the Operations tab page.

3.2.1.11 Run ASP

Use
You can analyze all price changes and adjust prices based on associated product rules using the Run ASP job.

⚠️ Do not submit this job through the Operations tab page.
3.2.1.12 CSO Run MM Target and Update opt_wb_table

Use
The CSO Run MM Target and Update opt_wb_table job generates the prices for each micromarket and updates the data in the applicable, viewable tables.

⚠️ Do not submit this job through the Operations tab page.

3.2.1.13 CSO Update PF Status and Send Alerts

Use
The CSO Update PF Status and Send Alerts job updates the status of the price file from Not Available to Open. This job generates a notification message to alert any applicable users.

⚠️ Do not submit this job through the Operations tab page.

3.2.2 CSO Summary Screen Processing Group

The CSO Summary Screen Processing Group for the Retail Price Optimization application includes the processing jobs that you can perform to process CSO summary page events, for example, by rebuilding the price file from a point on the revenue opportunity curve. These jobs include the following:

- CSO Summary Entry Point
- CSO Summary Run Market Target for Enterprise
- CSO Summary Run Market MSF and Market Target
- CSO Summary Apply Bus Rules – Run MM MSF/MM Target
- CSO Summary Run ASP
- CSO Summary Run MM Target and Update opt_wb_table
- CSO Summary Update PF Status

⚠️ Do not submit these jobs through the Operations tab page. Initiate these jobs through the Retail Price Optimization application’s Price File Summary page. See the Retail Price Optimization Guide for SAP DM for more information on using the Price File Summary page.

3.2.2.1 CSO Summary Entry Point

Use
The CSO Summary Entry Point processing job submits each of the processing jobs required to create the price file. This job ensures the processing jobs run in the correct order and for all of the micromarkets as appropriate.

⚠️ Do not submit this job through the Operations tab page.
3.2.2.2 CSO Summary Run Market Target for Enterprise

Use
The CSO Summary Run Market Target for Enterprise processing job generates data based on points you select.

⚠️ Do not submit this job through the Operations tab page.

3.2.2.3 CSO Summary Run Market MSF and Market Target

Use
The CSO Summary Run Market MSF and Market Target job calculates the zone level curve and applicable data based on the point you select.

⚠️ Do not submit this job through the Operations tab page.

3.2.2.4 CSO Summary Apply Bus Rules – Run MM MSF/MM Target

Use
The CSO Summary Apply Business Rules – Run MM MSF/MM Target job calculates a minimum and maximum price for each product in the price file.

⚠️ Do not submit this job through the Operations tab page.

3.2.2.5 CSO Summary Run ASP

Use
The CSO Summary Run ASP job analyzes all price changes and adjusts prices based on associated product rules.

⚠️ Do not submit this job through the Operations tab page.

3.2.2.6 CSO Summary Run MM Target and Update opt_wb_table

Use
The CSO Summary Run MM Target and Update opt_wb_table job generates the prices for each micromarket and updates the data in the applicable, viewable tables.

⚠️ Do not submit this job through the Operations tab page.
3.2.2.7 CSO Summary Update PF Status

Use
The CSO Summary Update PF Status job updates the status of the price file from Not Available to Open. This job also generates a notification message to alert any applicable users.

Do not submit this job through the Operations tab page.

3.2.3 System
The System group for the Retail Price Optimization application includes processing jobs that are run when needed.

3.2.3.1 System Cleanup

Use
You can delete out-of-date and invalid data from many different tables using the System Cleanup job. This job references the information in the MST_CLEAN_UP table to determine what tables need to be analyzed and the criteria for deleting information from these tables.

Prerequisites
None

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select System from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the System group.

You can only perform this job by selecting the checkbox for the Enterprise market, which is the top level of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the Enterprise market checkbox selected, a notification message appears.

5. Select the checkbox for the Enterprise market in the Market Hierarchy Selection table, and then click Submit.

3.2.4 Build Client Price File
The Build Client Price File group for the Retail Price Optimization application includes the Output Text File with Prices job, which you can perform to generate the output price text file.
3.2.4.1 Output Text File with Prices

Use
You can create the output text file containing regular price recommendations using the Output Text File with Prices job. This job includes the following tasks:

- Examines each open regular price event to determine if the Approved By Date is less than or equal to the current date. For any events that meet the criteria, a record is written to the output text file for every product/zone that has a price change accepted in the regular price event(s).
  - The name of the price file is defined in the PriceFileName parameter.
  - The output location is defined in the PriceFileDirectory parameter.
- Updates price change history with the approved prices using the Implement Date of the regular price event(s).
- Stores the current date as the last date optimized for each micromarket in the regular price event(s).
- Updates the status of the regular price event(s) to Approved. Events that are already approved are updated to Delivered if the Implement Date is less than or equal to the current date.

The parameters are set during the initial customization. See the Customizing Guide for SAP DM for more information.

Prerequisites
At least one regular price event must have been successfully created and have an Approved By Date less than or equal to the current date.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Build Client Price File from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Build Client Price File group.

You can only perform this job by selecting the checkbox for the Enterprise market, which is the top level of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the Enterprise market checkbox selected, a notification message appears.

5. Select the checkbox for the Enterprise market in the Market Hierarchy Selection table, and then click Submit.

3.2.5 Demand Modeling and Forecasting
The Demand Modeling and Forecasting group for the Retail Price Optimization application includes the processing jobs you need for performing modeling, which consists of generating and posting demand
models for product/zone combinations defined in the market hierarchy. The demand models are used to generate regular price events, promotion price events, and markdown events. These jobs include the following:

- Reg PCB Prep
- Build Promo Calendar
- Analyze Tables Before SAM
- SAM
- MOD2 Modeler
- KSF Post Parameters
- Forecast
- Post Modeling Parms to CSO

You must submit these jobs individually.

### 3.2.5.1 Reg PCB Prep

#### Use

You can prepare the system to begin modeling using the *Reg PCB Prep* job. This job processes imported data that affects modeling and begins building data structures required by the modeling science components.

![See Science Component Descriptions for more information.](image)

This job includes the following tasks:

- Validates and processes the imported store information.
- Validates and processes the imported zone information.
- Validates and processes the imported weekly sales information.
- Validates and processes the imported promotion calendar information.
- Calculates each store’s weight for every zone/category combination.
- Updates integrated forecasts with matching actual sales.
- Analyzes the latest sales data to see if new promotion combinations exist that would require the generation of new internal promotion keys.
- Analyzes the product master to see if there are new categories or subcategories.

#### Prerequisites

New import data must have been successfully loaded.

#### Procedure

1. Choose *Processing* on the navigation panel of the home page.
   - The *Operations* tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.

3. Select Demand Modeling and Forecasting from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Demand Modeling and Forecasting group.


   You can only perform this job by selecting the checkbox for the Enterprise market, which is the top level of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the Enterprise market checkbox selected, a notification message appears.

5. Select the checkbox for the Enterprise market in the Market Hierarchy Selection table, and then click Submit.

### 3.2.5.2 Build Promo Calendar

**Use**
You can infer a promotion calendar from the weekly sales history using the Build Promo Calendar job. This job examines the sales history for every product/store combination in a micromarket and infers a historical promotion calendar that is used to determine the promotional status of a product/store combination on the weeks it did not sell. This job calls the PCB engine component, followed by the PCC engine component.

See Science Component Descriptions for more information.

**Prerequisites**
The Reg PCB Prep job must have completed successfully.

**Procedure**
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.

2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.

3. Select Demand Modeling and Forecasting from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Demand Modeling and Forecasting group.

4. Highlight Build Promo Calendar in the Process list.

   You must select at least one checkbox from the lowest sublevel of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without one of these checkboxes selected, a notification message appears. The micromarkets that must be selected are generally determined by the modeling processing schedule developed during the implementation process.
5. Select the checkboxes for the desired markets to be processed in the *Market Hierarchy Selection* table, and then click *Submit*.

Make a note of the micromarkets you include in this job. You must include the same micromarkets if you:

- Use SAM to aggregate and analyze store and zone sales data. For more information, see SAM.
- Run the Post Modeling Parms to SCO job to make current demand models and seasonal demand forecasts available to Retail Price Optimization, Promotion Optimization, and Markdown Optimization applications. For more information, see Post Modeling Parms to CSO.

### 3.2.5.3 Analyze Tables Before SAM

#### Use

You can execute the Oracle® analyze utility on database tables that are updated by the *Build Promo Calendar* job using the *Analyze Tables Before SAM* job. This job executes an Oracle utility that allows for faster database access on tables that have had significant changes made to them. The *Build Promo Calendar* job updates several tables that then must be analyzed to ensure efficient system performance.

#### Prerequisites

The *Build Promo Calendar* job must have completed successfully.

#### Procedure

1. Choose *Processing* on the navigation panel of the home page.
   
The *Operations* tab page appears.
2. Select *Regular* from the *Activity* dropdown list located in the *Start Processes* table.
   
The *Market Hierarchy Selection* table appears in the *Start Processes* section.
3. Select *Demand Modeling and Forecasting* from the *Group* dropdown list located in the *Start Processes* table.
   
The *Process* list displays the processing jobs for the *Demand Modeling and Forecasting* group.
4. Highlight *Analyze Tables Before SAM* in the *Process* list.

   You can only perform this job by selecting the checkbox for the *Enterprise* market, which is the top level of the hierarchy tree in the *Market Hierarchy Selection* table. If you try to submit this job without the *Enterprise* market checkbox selected, a notification message appears.
5. Select the checkbox for the *Enterprise* market in the *Market Hierarchy Selection* table, and then click *Submit*.

### 3.2.5.4 SAM

#### Use

You can perform sales aggregation and analysis using the *SAM* job. This job executes the SAM science component, which aggregates the store level sales data to zone level. This job also examines the sales data for data anomalies and flags them to be ignored by the modeling component.
Prerequisites
The Analyze Tables Before Sam job must have finished successfully.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Demand Modeling and Forecasting from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Demand Modeling and Forecasting group.

   You must select at least one checkbox from the lowest sublevel of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without one of these checkboxes selected, a notification message appears. The micromarkets selected must be the same ones selected for a Build Promo Calendar job.

5. Select the checkboxes for the desired markets to be processed in the Market Hierarchy Selection table, and then click Submit.

3.2.5.5 Mod2 Modeler

Use
You can generate demand models for the product/zone combinations in a micromarket using the Mod2 Modeler job. This job takes the information created by the PCB, PCC, and SAM science components, puts it in the format needed by the MODELER science component, and then calls the MODELER component, which generates demand models for every valid product/zone combination in the micromarket. This job includes the following tasks:

- Determines what products are in the micromarket, and which ones are valid to be modeled.
- Copies the weekly sales data generated by SAM for the products in the micromarket.
- Copies the competitor prices for the products in the micromarket using only the competitors associated with the zone assigned to the micromarket.
- Creates a list of distinct price families in the micromarket.
- Creates a list of distinct demand groups in the micromarket.
- Creates associated product rules to support the product lines defined for the products in the micromarket.
- Executes the MODELER science component.
- Updates several database tables with the output from the MODELER component.
Prerequisites
The SAM processing must have completed successfully.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Demand Modeling and Forecasting from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Demand Modeling and Forecasting group.

   You must select at least one checkbox from the lowest sublevel of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without one of these checkboxes selected, a notification message appears. The micromarkets that must be selected are generally determined by the modeling processing schedule developed during the implementation process.

5. Select the checkboxes for the desired markets to be processed in the Market Hierarchy Selection table, and then click Submit.

3.2.5.6 KSF Post Parameters

Use
You can copy the demand models and seasonal demand forecasts generated in the previous processes to a holding area to allow for the generation of internal forecasts using the KSF Post Parameters job. Internal forecasts are not visible to current Retail Price Optimization application users. This job is only performed if there is a need to generate a forecast to assist in tuning or evaluating the demand models.

You can determine KSF Post Parameters using the KSF Post Parameters job.

Prerequisites
- The Modeler Processing job must have completed successfully.
- There must be a need to generate an internal integrated forecast.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Demand Modeling and Forecasting from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Demand Modeling and Forecasting group.


   ![Warning]
   You must select at least one checkbox from the lowest sublevel of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without one of these checkboxes selected, a notification message appears. The micromarkets that must be selected are generally determined by the modeling processing schedule developed during the implementation process.

5. Select the checkboxes for the desired markets to be processed in the Market Hierarchy Selection table, and then click Submit.

### 3.2.5.7 Forecast

#### Use
You can generate an internal integrated forecast for every product/zone combination in a micromarket using the Forecast job. This job identifies a number of weeks in the future for a product/zone combination and calculates a unit forecast for each of those weeks, taking price, seasonality, and promotional activity into account. This job uses the demand models posted by the KSF Post Parameters job and includes the following tasks:

- Generates the products, zones, weeks, and prices that are to be forecasted.
  - The start of the forecast is defined in the TDDPlanBeginTimeKeys parameter.
  - The end of the forecast is defined in the TDDPlanEndTimeKeys parameter.
- Updates the internal promotional calendar with applicable Markdown and Promotion Optimization events, using the logic described in the Markdown Optimization Guide for SAP DM and the Retail Price Optimization Guide for SAP DM.
- Executes the PCC science component to develop the future promotional calendar, using the internal promotional calendar and the future promotional calendar provided by the client.
- Executes the FEE science component, which will resolve simultaneous promotional events and generate the products, zones, weeks, and prices that are on promotion.
- Executes the MM_FORECAST science component, which will calculate a unit forecast for each product, zone, week, and price.
- Updates the database tables with the output from the MM_FORECAST component.

   ![Note]
   The parameters are set during the initial customization. See the Customizing Guide for SAP DM for more information.

   ![Note]
   See Science Component Descriptions for more information.

#### Prerequisites
- The KSF Post Parameters job must have finished successfully.
- There must be a need to generate an internal forecast.
Procedures

1. Choose Process on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Demand Modeling and Forecasting from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Demand Modeling and Forecasting group.

   You must select at least one checkbox from the lowest sublevel of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without one of these checkboxes selected, a notification message appears. The micromarkets that need to be selected are generally determined by the modeling processing schedule developed during the implementation process.

5. Select the checkboxes for the desired markets to be processed in the Market Hierarchy Selection table, and then click Submit.

3.2.5.8 Post Modeling Parms to CSO

Use
You can make the current demand models and seasonal demand forecasts available to the Retail Price Optimization, Promotion Optimization, and Markdown Optimization applications using the Post Modeling Parms to CSO job. This job copies the demand models and seasonal demand forecasts generated during modeling to the database tables used by the various applications in SAP DM.

Prerequisites
The Modeler Processing job must have been completed successfully.

Procedure

1. Choose Process on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Demand Modeling and Forecasting from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Demand Modeling and Forecasting group.

   You must select at least one market from the lowest sublevel of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the appropriate level of market selected, a notification message appears. The
5. Select the checkboxes for the desired markets to be processed in the Market Hierarchy Selection table, and then click Submit.

### 3.2.6 Client Side Forecast

The Client Side Forecast group for the Retail Price Optimization application includes the CSF Forecast job.

#### 3.2.6.1 CSF Forecast

**Use**

You can perform a client side forecast using the CSF Forecast job.

**Prerequisites**

- At least one micromarket must have successfully processed through Post Modeling Parms to CSO.
- The CSFPlanEndTimeKeys parameter must be set to the desired number of weeks to forecast into the future.

**Procedure**

1. Choose Processing on the navigation panel of the home page.
   
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Client Side Forecast from the Group dropdown list located in the Start Processes table.
   
   The Process list displays the CSF Forecast job.
5. Select the checkboxes for the desired markets to be processed in the Market Hierarchy Selection table, and then click Submit.

You must select at least one checkbox from the lowest sublevel of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without one of these checkboxes selected, a notification message appears. The micromarkets that must be selected are generally determined by the modeling processing schedule developed during the implementation process.

### 3.2.7 Import and Cleanse

The Import and Cleanse group for the Retail Price Optimization application includes the processing jobs that load the import data, validate and store the data in the application database tables, and publish the product linking and hierarchy changes. These jobs include the following:

- **Load Daily**
- **Clean Daily**
• Load Weekly
• Clean Weekly
• Publish Market Hierarchy and Linking Information

You must submit these jobs individually.

### 3.2.7.1 Load Daily

**Use**

You can load the data files that are scheduled to be imported on a daily basis using the Load Daily job. This job imports the Markdown Header and Markdown Detail files.

**Prerequisites**

The appropriate data files must be in the import location.

**Procedure**

1. Choose Processing on the navigation panel of the home page. The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table. The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Import and Cleanse from the Group dropdown list located in the Start Processes table. The Process list displays the processing jobs for the Import and Cleanse group.

   You can only perform this job by selecting the checkbox for the Enterprise market, which is the top level of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the Enterprise market checkbox selected, a notification message appears.

5. Select the checkbox for the Enterprise market in the Market Hierarchy Selection table, and then click Submit.

### 3.2.7.2 Clean Daily

**Use**

You can validate and process the data files imported by the Load Daily process using the Clean Daily job. The following actions occur during the processing of this job:

- Records are validated. If a record fails any validation, it is marked as an error. Errors can be viewed in the Import Review page.
- Markdown details and events are added, changed, and deleted.
Prerequisites
The Load Daily process must have successfully completed.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Import and Cleanse from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Import and Cleanse group.

   ![Warning]
   You can only perform this job by selecting the checkbox for the Enterprise market, which is the top level of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the Enterprise market checkbox selected, a notification message appears.

5. Select the checkbox for the Enterprise market in the Market Hierarchy Selection table, and then click Submit.

3.2.7.3 Load Weekly

Use
You can load the data files that are scheduled to be imported on a weekly basis using the Load Weekly job. The files that are imported by this process are as follows:

- Ad Zone Store Cross Reference
- Competitor Price History
- Competitor Cross Reference
- Current Price and Cost
- Distribution Center Master
- Markdown Detail
- Product Master
- Associated Products
- Zone Store Cross Reference
- Item Strategy
- Store Inventory Amounts
- Store Master
- Weekly Sales
- Promotion Master
Prerequisites
The appropriate data files must be in the import location.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Import and Cleanse from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Import and Cleanse group.

   You can only perform this job by selecting the checkbox for the Enterprise market, which is the top level of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the Enterprise market checkbox selected, a notification message appears.

5. Select the checkbox for the Enterprise market in the Market Hierarchy Selection table, and then click Submit.

3.2.7.4 Clean Weekly

Use
You can validate and process the data files imported by the Load Weekly job using the Clean Weekly job. The following actions occur during the processing of this job:

- Records in all import files are validated. If a record fails any validation, it is marked as an error. Errors can be viewed in the Import Review page.
- A mode price and cost for each product is calculated for use in the product linking process.
- Products are added, changed, or deleted in the staging Product Master.
- The staging product hierarchy is updated and validated. If the hierarchy is invalid, a fatal error is raised and processing stops.
- The production Product Master is partially updated: products are added or deleted, but no product linking information is changed or added.
- The production product hierarchy is updated.
• Stores are added, changed, and deleted.
• Regular zones and zone-store cross references are replaced with the newly loaded data.
• Ad zones and zone-store cross references are replaced with the newly loaded data.
• Current price and cost for product/store combinations are added, changed, or deleted.
• Existing Promotion Master data is replaced with the newly loaded data.
• Existing Promo Calendar data is replaced with the newly loaded data.
• The Weekly Sales data just loaded is appended to the existing Weekly Sales data.
• Internal promotion keys are created if the latest sales data contains any new Promo Uplift IDs.
• Existing Competitor Store Master data is replaced with the newly loaded data.
• Existing Competitor Cross Reference data is replaced with the newly loaded data.
• The Competitor Price History data just loaded is appended to the existing Competitor Price History data.
• Existing Price Constraint data from the previous import is replaced with the newly loaded data. Manually entered price constraints are retained.
• Existing Associated Product data from the previous import is replaced with the newly loaded data.
• Existing Item Strategy data is replaced with the newly loaded data.
• Existing Distribution Center Master data is replaced with the newly loaded data.
• The DC Inventory Amounts data just loaded is appended to the existing DC Inventory data.
• Existing DC to Store Cross Reference data is replaced with the newly loaded data.
• The Store Inventory Amounts data just loaded is appended to the existing Store Inventory data.
• Markdown details and events are added, changed, and deleted.

Prerequisites
The Load Weekly job must have successfully completed.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Import and Cleanse from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Import and Cleanse group.
Job Processing Guide for SAP DM
3 Performing Processing Jobs

3.2.7.5 Publish Market Hierarchy and Linking Information

Use
You can publish the updated market hierarchy and product linking information from the staging tables to the production tables using the Publish Market Hierarchy and Linking Information job. This allows that information to be used in demand modeling and various optimization processes. This job includes the following tasks:

- Updates the production Product Master with the product linking information in the staging Product Master.
- Creates new price file approval dates if existing dates extend less than a year into the future.
- Validates the market hierarchy. If there are any errors, a failure is raised and processing is halted.
- Copies the staging market hierarchy tables to the production market hierarchy tables.
- Updates the markdown security table that cross references products with the market hierarchy nodes.

Prerequisites
Product linking and market hierarchy maintenance must be complete and error-free.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Import and Cleanse from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Import and Cleanse group.

   You can only perform this job by selecting the checkbox for the Enterprise market, which is the top level of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the Enterprise market checkbox selected, a notification message appears.

5. Select the checkbox for the Enterprise market in the Market Hierarchy Selection table, and then click Submit.
3.2.8 **CSO Prep**

The *CSO Prep* group includes the processing jobs that update information used by the optimization processes to reflect the most recently imported and processed weekly data. These processing jobs include the following:

- **Process Competitor**
- **Process Current**
- **Process Constraint**
- **Update Price File Status**

You can submit these jobs individually or simultaneously.

> Check for open price events prior to performing these jobs. If there are open price events, notify the owners of those events that running these jobs changes information that may affect their optimization results the next time they choose to optimize the open event.

### 3.2.8.1 Process Competitor

**Use**

You can flag competitor price outliers using the *Process Competitor* job. This job calculates a median competitor price for every product and then flags prices that are a certain percentage above or below that median price as outliers. These prices are excluded from the modeling and optimization processes. The percentages are defined in the *CleanMarketUpper* and *CleanMarketLower* parameters.

**Prerequisites**

Competitor price data must have been loaded since the last execution of this process.

**Procedure**

1. Choose *Processing* on the navigation panel of the home page.
   
   The *Operations* tab page appears.

2. Select *Regular* from the *Activity* dropdown list located in the *Start Processes* table.
   
   The *Market Hierarchy Selection* table appears in the *Start Processes* section.

3. Select *CSO Prep* from the *Group* dropdown list located in the *Start Processes* table.
   
   The *Process* list displays the processing jobs for the *CSO Prep* group.


   > You can only perform this job by selecting the checkbox for the *Enterprise* market, which is the top level of the hierarchy tree in the *Market Hierarchy Selection* table. If you try to submit this job without the *Enterprise* market checkbox selected, a notification message appears.

5. Select the checkbox for the *Enterprise* market in the *Market Hierarchy Selection* table, and then click *Submit.*
3.2.8.2 Process Current

Use
You can update the Retail Price Optimization application with the most recent price and cost information using the **Process Current** job. The following actions occur during the processing of this job:

- The **Price Change History** is updated with prices for new product/stores or changed prices for existing product/stores.
- The **Cost Change History** is updated with costs for new product/stores or changed prices for existing product/stores.
- Zone level prices and costs are calculated for use in the Retail Price Optimization application. A mode price and average cost is calculated.

Prerequisites
Current price and cost data must have been loaded since the last execution of this process.

Procedure
1. Choose *Processing* on the navigation panel of the home page.
   The *Operations* tab page appears.
2. Select *Regular* from the *Activity* dropdown list located in the *Start Processes* table.
   The *Market Hierarchy Selection* table appears in the *Start Processes* section.
3. Select *CSO Prep* from the *Group* dropdown list located in the *Start Processes* table.
   The *Process* list displays the processing jobs for the *CSO Prep* group.

   ![Warning]
   You can only perform this job by selecting the checkbox for the *Enterprise* market, which is the top level of the hierarchy tree in the *Market Hierarchy Selection* table. If you try to submit this job without the *Enterprise* market checkbox selected, a notification message appears.

5. Select the checkbox for the *Enterprise* market in the *Market Hierarchy Selection* table, and then click *Submit*.

3.2.8.3 Process Constraint

Use
You can update the Retail Price Optimization application with the most recently imported price constraint information using the **Process Constraint** job. This job determines where in the hierarchy the imported price constraints apply and creates hierarchy-specific constraints that affect the Retail Price Optimization application.

Prerequisites
Price constraint data must have been loaded since the last execution of this job.
Procedure

1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.

2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.

3. Select CSO Prep from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the CSO Prep group.


   You can only perform this job by selecting the checkbox for the Enterprise market, which is the top level of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the Enterprise market checkbox selected, a notification message appears.

5. Select the checkbox for the Enterprise market in the Market Hierarchy Selection table, and then click Submit.

3.2.8.4 Update Price File Status

Use

You can update the status of regular price events that have been delivered by comparing the event dates to the date on which the Update Price File Status job is run. If no events have been delivered, this job runs successfully but does not update the status of the regular price events.

Prerequisites

None

Procedure

1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.

2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.

3. Select CSO Prep from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the CSO Prep group.


   You can only perform this job by selecting the checkbox for the Enterprise market, which is the top level of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the Enterprise market checkbox selected, a notification message appears.

5. Select the checkbox for the Enterprise market in the Market Hierarchy Selection table, and then click Submit.
### 3.2.9 Initial System Set-Up

The *Initial System Set-Up* group includes the processing jobs used during the initial system setup efforts. These processing jobs include the following:

- *Load/Update REG_ALL_TIME*
- *Load/Update REG_PA_AVAILABLE_DATES*
- *Load OPT_PERCEIVED_PRICE*
- *Build req_promo_key_xref*

You can submit these jobs individually or simultaneously.

#### 3.2.9.1 Load/Update REG_ALL_TIME

**Use**

You can build out the table that assigns unique sequential keys to each week of sales activity imported into the system using the *Load/Update REG_ALL_TIME* job. This job must be run before sales data can be imported.

**Prerequisites**

The `REG.AllTimeWeekEndingDay` parameter must be set to the day of the week that is the last day of the sales week.

**Procedure**

1. Choose *Processing* on the navigation panel of the home page.
   
   The *Operations* tab page appears.

2. Select *Regular* from the *Activity* dropdown list located in the *Start Processes* table.
   
   The *Market Hierarchy Selection* table appears in the *Start Processes* section.

3. Select *Initial System Set-Up* from the *Group* dropdown list located in the *Start Processes* table.
   
   The *Process* list displays the processing jobs for the *Initial System Set-Up* group.


   ![](image) You can only perform this job by selecting the checkbox for the *Enterprise* market, which is the top level of the hierarchy tree in the *Market Hierarchy Selection* table. If you try to submit this job without the *Enterprise* market checkbox selected, a notification message appears.

5. Select the checkbox for the *Enterprise* market in the *Market Hierarchy Selection* table, and then click *Submit*. 
3.2.9.2 Load/Update REG_PA_AVAILABLE_DATES

**Use**
You can create the list of dates that appear in the Approved By Date dropdown list in the second page of the Regular Price File Wizard using the Load/Update REG_PAAVAILABLE_DATES job. This job must be run before retail price optimization events can be created.

**Prerequisites**
The REG.PaPriceFileApprovalDay parameter must be set to the day of the week the retail price optimization events must be approved for delivery.

**Procedure**
1. Choose *Processing* on the navigation panel of the home page.
   The *Operations* tab page appears.
2. Select *Regular* from the *Activity* dropdown list located in the *Start Processes* table.
   The *Market Hierarchy Selection* table appears in the *Start Processes* section.
3. Select *Initial System Set-Up* from the *Group* dropdown list located in the *Start Processes* table.
   The *Process* list displays the processing jobs for the *Initial System Set-Up* group.
4. Highlight *Load/Update REG_PA_AVAILABLE_DATES* in the *Process* list.
   You can only perform this job by selecting the checkbox for the *Enterprise* market, which is the top level of the hierarchy tree in the *Market Hierarchy Selection* table. If you try to submit this job without the *Enterprise* market checkbox selected, a notification message appears.
5. Select the checkbox for the *Enterprise* market in the *Market Hierarchy Selection* table, and then click *Submit*.

3.2.9.3 Load OPT_PERCEIVED_PRICE

**Use**
You can calculate the perceived price of every valid price point using the Load OPT_PERCEIVED_PRICE job. This job must be run before the Discontinuous Demand page can be accessed.

**Prerequisites**
The REG.MinPerceivedPrice and REG.MaxPerceivedPrice parameters must be set.

**Procedure**
1. Choose *Processing* on the navigation panel of the home page.
   The *Operations* tab page appears.
3. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.

3. Select Initial System Set-Up from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Initial System Set-Up group.

4. Select Load OPT_PERCEIVED_PRICE in the Process list.

   You can only perform this job by selecting the checkbox for the Enterprise market, which is the top level of the hierarchy tree in the Market Hierarchy Selection table. If you try to submit this job without the Enterprise market checkbox selected, a notification message appears.

5. Select the checkbox for the Enterprise market in the Market Hierarchy Selection table, and then choose Submit.

3.2.9.4 Build req_promo_key_xref

Use
You can generate the promotion keys used by the science modeling components to track promotional lift using the Build req_promo_key_xref job. This job must be run before any modeling processing can be done.

Prerequisites
The Weekly Sales seed data must be loaded, but not cleansed. See Load Weekly for more information.

Procedure
1. Choose Processing on the navigation panel of the home page.
   The Operations tab page appears.
2. Select Regular from the Activity dropdown list located in the Start Processes table.
   The Market Hierarchy Selection table appears in the Start Processes section.
3. Select Initial System Set-Up from the Group dropdown list located in the Start Processes table.
   The Process list displays the processing jobs for the Initial System Set-Up group.
4. Highlight Build req_promo_key_xref in the Process list.
   The Market Hierarchy Selection table disappears from the Start Processes section.
5. Click Submit.

3.3 Promotion Optimization
You can use JPS to perform several processing jobs for the Promotion Optimization application. These jobs are contained in the Promotion Ad Planning group.

You can use JPS to perform several processing jobs for the Promotion Optimization application. These jobs are contained in the following groups:

- Promotion Ad Planning
- Update Status and Create Price File
3.3.1 Promotion Ad Planning

The Promotion Ad Planning group for the Promotion Optimization application includes the processing jobs that you can perform to plan promotions. These processing jobs include the following:

- Model Scenario
- Model Product
- Forecast Scenario
- Forecast Product
- Recommended Scenario Products/Offers
- Recommended Product Offer
- Promotion Ad Planning Event Delete

⚠️ Do not submit these jobs through the Operations tab page. Initiate these jobs using the Promotion Optimization application.

3.3.1.1 Model Scenario

Use

You can perform store-level modeling on products and stores in a scenario on a Promotion Optimization event using the Model Scenario job. This job calls the ESME science component, which generates a demand model for every product/store combination on the scenario.

💡 See Science Component Descriptions for more information.

Prerequisites

At least one scenario must have been created in SAP DM.

Procedure

⚠️ Do not submit this job through the Operations tab page.

3.3.1.2 Model Product

Use

You can perform store-level modeling on a particular product at all stores in a scenario on a promotion optimization event using the Model Product job. This job calls the ESME science component, which generates a demand model for every product/store combination selected.

💡 See Science Component Descriptions for more information.

Prerequisites

At least one scenario must have been created in the Promotion Optimization application.
**Procedure**

⚠️ Do not submit this job through the *Operations* tab page.

### 3.3.1.3 Forecast Scenario

**Use**

You can perform forecasting on products and stores in a scenario on a promotion optimization event using the *Forecast Scenario* job. This job calls the ESME science component, and then calls the MFE science component, which generates a forecast for every product/store combination on the scenario. This job uses the demand models created by the ESME science component to calculate the forecast.

💡 See Science Component Descriptions for more information.

**Prerequisites**

At least one scenario must have been created in the Promotion Optimization application.

**Procedure**

⚠️ Do not submit this job through the *Operations* tab page.

### 3.3.1.4 Forecast Product

**Use**

You can perform forecasting on a single product and all stores in a scenario on a promotion optimization event using the *Forecast Product* job. This job calls the ESME science component, and then calls the MFE science component, which generates a forecast for every product/store combination selected. This job uses the demand models created by the ESME science component to calculate the forecast.

💡 See Science Component Descriptions for descriptions of the science components.

**Prerequisites**

At least one scenario must have been created in the Promotion Optimization application.

**Procedure**

⚠️ Do not submit this job through the *Operations* tab page.

### 3.3.1.5 Recommend Scenario Products/Offers

**Use**

You can model, optimize products and offers, and forecast a scenario on a promotion optimization event using the *Recommend Scenario Products/Offers* job. This job calls the following in sequence:
1. ESME science component, which generates demand models for every product/store combination in the scenario
2. POE science component, which selects the products and associated offers to be put on promotion
3. MFE science component, which forecasts the products on the promotion

See Science Component Descriptions for more information.

Prerequisites
At least one scenario must have been created in the Promotion Optimization application.

Procedure

⚠️ Do not submit this job through the Operations tab page.

3.3.1.6 Recommend Product Offer

Use
You can model, optimize the offers, and forecast a product on a scenario on a promotion optimization event using the Recommend Product Offer job. This job calls the following in sequence:
1. ESME science component, which generates demand models for every product/store combination selected
2. POE science component, which selects the offer for the product
3. MFE science component, which forecasts the product

See Science Component Descriptions for more information.

Prerequisites
At least one scenario must have been created in the Promotion Optimization application.

Procedure

⚠️ Do not submit this job through the Operations tab page.

3.3.1.7 Promotion Ad Planning Event Delete

⚠️ The Promotion Ad Planning Event Delete job is obsolete. Do not submit this job through the Operations tab page.

3.3.2 Update Status and Create Price File

The Update Status and Create Price File group for the Promotion Optimization application includes the Update Status and Create Price File job.
3.3.2.1 Update Status and Create Price File

Use
You can update status and create a promotion price file using the *Update Status and Create Price File* job. All promotion events that have a status condition of *Approved* with Start Date = Current Date + *PRM.AP.DELIVERY_LAG_DAYS* are put into the text file and have their status conditions set to *Delivered*.

Prerequisites
The *PRM.AP.DELIVERY_LAG_DAYS* parameter must be set.

Procedure
1. Choose *Processing* on the navigation panel of the home page.
   The *Operations* tab page appears.
2. Select *Promotion* from the *Activity* dropdown list located in the *Start Processes* table.
3. Select *Update Status and Create Price File* from the *Group* dropdown list located in the *Start Processes* table.
   The *Process* list displays the *Update Status and Create Price File* job, and the *Market Hierarchy Selection* table appears in the *Start Processes* section.
4. Highlight *Update Status and Create Price File* in the *Process* list.
   You can only perform this job by selecting the checkbox for the *Enterprise* market, which is the top level of the hierarchy tree in the *Market Hierarchy Selection* table. If you try to submit this job without the *Enterprise* market checkbox selected, a notification message appears.
5. Select the checkbox for the *Enterprise* market in the *Market Hierarchy Selection* table, and then click *Submit*.
### Appendix A. Scheduling

The following table provides a recommended schedule for performing processing jobs and other JPS-related activities:

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Process</th>
<th>Initiation Point</th>
<th>Description</th>
<th>Group/Process</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily</td>
<td>Create Regular Price File</td>
<td>Price Optimization</td>
<td>Generate regular price recommendations</td>
<td>Group 20 - CSO Processing Group</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Group 25 - CSO Summary Screen Processing Group</td>
</tr>
<tr>
<td></td>
<td>Plan Promotional Event –</td>
<td>Promotion</td>
<td>Create a promotional event, with prices, offers, and unit forecast for a set of products at a set of stores</td>
<td>Group 10130 - Promo Ad Planning</td>
</tr>
<tr>
<td></td>
<td>Option A, B, or C</td>
<td>Optimization</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Create Markdown</td>
<td>Markdown Optimization</td>
<td>Create a markdown for a set of products at a set of stores</td>
<td>Group 100030 - Re-Optimization</td>
</tr>
<tr>
<td></td>
<td>Build Client Price Files</td>
<td>JPS</td>
<td>Create output files with regular, promotion, and markdown prices. Update status of planned pricing events.</td>
<td>Group 70 - Build Client Price File</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Group 100010 - Daily Processing</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Group 10150 - Build Client Promotional Price File</td>
</tr>
<tr>
<td>Weekly</td>
<td>Load Files for CSO</td>
<td>JPS</td>
<td>Load files that affect optimization processes</td>
<td>Group 40 - CSO Load - analyze Triggers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Group 100020 - Weekly Imports</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Group 100040 - Other</td>
</tr>
<tr>
<td></td>
<td>Load Files</td>
<td>JPS</td>
<td>Load files that affect modeling processes</td>
<td>Group 90 - Modeling With Forecast</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Load Product</td>
<td>JPS</td>
<td>Load products for initial review of linking information</td>
<td>Group 90 - Modeling With Forecast</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Product Lite Post</td>
<td>JPS</td>
<td>Post product information to Product Master, without posting product linking information</td>
<td>Group 90 - Modeling With Forecast</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CSO_triggers</td>
<td>JPS</td>
<td>Process files that affect optimization</td>
<td>Group 40 - CSO Load - analyze Triggers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Create RDB</td>
<td>JPS</td>
<td>Process files that affect modeling</td>
<td>Group 90 - Modeling With Forecast</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Product Linking</td>
<td>Data Management</td>
<td>Verify linking accuracy, market hierarchy maintenance</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Product Post</td>
<td>JPS</td>
<td>Update Product Master with product linking information</td>
<td>Group 90 - Modeling With Forecast</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Modeling With Forecast</td>
<td>JPS</td>
<td>Generate demand models for each product/zone</td>
<td>Group 90 - Modeling With Forecast</td>
</tr>
<tr>
<td>Frequency</td>
<td>Process</td>
<td>Initiation Point</td>
<td>Description</td>
<td>Group/Process</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------</td>
<td>------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>Weekly</td>
<td>Post ModelingParms</td>
<td>JPS</td>
<td>Post tuned demand models so they are available to the optimization processes</td>
<td>Group 90 - Modeling With Forecast</td>
</tr>
<tr>
<td></td>
<td>Re-optimize Markdowns</td>
<td>JPS</td>
<td>Re-price markdowns in response to changed inventory data</td>
<td>Group 100030 - Re-Optimization Group 100020 - Weekly Imports</td>
</tr>
<tr>
<td>As Needed</td>
<td>Client Side Forecasting</td>
<td>JPS</td>
<td>Build CSF_1111_Forecast, run MM_FORECAST</td>
<td>Group 100 - Client Side Forecast</td>
</tr>
</tbody>
</table>
## Appendix B. Science Component Descriptions

<table>
<thead>
<tr>
<th>Component</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhanced Store Modeling Engine (ESME)</td>
<td>Generates mathematical demand models for product sales at individual stores</td>
</tr>
<tr>
<td>Forecast Execution Engine (FEE)</td>
<td>Consolidates all pricing, promotion, and availability information</td>
</tr>
<tr>
<td>Markdown Forecast Engine (MFE)</td>
<td>Generates sales forecasts for product-store combinations in a markdown event (also used for promotion forecasts with POE)</td>
</tr>
<tr>
<td>MM_FORECAST</td>
<td>Computes forecast values</td>
</tr>
<tr>
<td>Markdown Optimization Engine (MOE)</td>
<td>Determines the optimal price markdown schedule for each product/store combination on a markdown event</td>
</tr>
<tr>
<td>Modeler</td>
<td>Generates mathematical demand models for product sales for zone-level (superstore) aggregation</td>
</tr>
<tr>
<td>Promo Calendar Builder (PCB)</td>
<td>Creates promotional calendar from sales history and infers promotion activity when products are not sold at a store</td>
</tr>
<tr>
<td>Promo Calendar Combiner (PCC)</td>
<td>Calculates a promotion calendar for each product and store that indicates which promotions are offered at the same time</td>
</tr>
<tr>
<td>Promotion Optimization Engine (POE)</td>
<td>Selects the products and associated offers and prices to be put on promotion</td>
</tr>
<tr>
<td>Sales Aggregation Module (SAM)</td>
<td>Sales data cleansing, out of stock calculation, promotion calendar integration, and zone-level (superstore) aggregation</td>
</tr>
</tbody>
</table>