

Oracle® Process Manufacturing

Integration with Advanced Planning and Scheduling User's Guide

Release 11*i*

January 2002

Part No. A81002-04

Part No. A81002-04

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Send Us Your Comments

Oracle Process Manufacturing Integration with Advanced Planning and Scheduling User's Guide, Release 11i

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Oracle Corporation welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
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If you find any errors or have any other suggestions for improvement, please indicate the chapter, section, and page number (if available). You can send comments to us in the following ways:

- FAX: 650-506-7200 Attn: Oracle Process Manufacturing
- Postal service:
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Redwood City, CA 94065
U.S.A.

If you would like a reply, please give your name, address, and telephone number below.

If you have problems with the software, please contact your local Oracle Support Services.

Audience for This Guide

Welcome to Release 11i of the *Oracle Process Manufacturing Integration with Advanced Planning and Scheduling User's Guide*.

This guide assumes you have a working knowledge of the following:

- The principles and customary practices of your business area.
- **Oracle Process Manufacturing**

If you have never used **Oracle Process Manufacturing**, Oracle suggests you attend one or more of the **Oracle Process Manufacturing** training classes available through Oracle University.

- The Oracle Applications graphical user interface.

To learn more about the Oracle Applications graphical user interface, read the *Oracle Applications User's Guide*.

See Other Information Sources for more information about Oracle Applications product information.

How To Use This Guide

This guide contains the information you need to understand and use *Integration with Advanced Planning and Scheduling*.

- Chapter 1, Overview, discusses the four applications that comprise Oracle Advanced Planning and Scheduling and explains why this guide focuses on only two of these applications.
- Chapter 2, Using Advanced Planning and Scheduling with Oracle Process Manufacturing, discusses the advantages of using ASCP and provides an overview on mapping OPM Data to ASCP, setting up Oracle Applications, and OPM functional changes.
- Chapter 3, Setting Up OPM Data for Use with ASCP, discusses how OPM data maps to Oracle Applications and what you need to consider when setting up OPM data when using ASCP.
- Chapter 4, Setting Up Data in Oracle Applications, discusses data set up in Oracle Applications when using OPM.

- Chapter 5, Using ASCP Data in OPM, provides procedures for using the APS suggestions in OPM. It discusses rescheduling existing batches, scheduling new batches, and accepting or rejecting batches.
- Chapter 6, Using Demand Planning with Oracle Process Manufacturing, provides information on referencing OPM data in Demand Planning and importing Demand Planning Output into OPM.
- Appendix A describes how to navigate to each window.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible, with good usability, to the disabled community. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Standards will continue to evolve over time, and Oracle Corporation is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For additional information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/accessibility/>.

Other Information Sources

You can choose from many sources of information, including online documentation, training, and support services, to increase your knowledge and understanding of **Oracle Process Manufacturing**.

If this guide refers you to other Oracle Applications documentation, use only the Release 11i versions of those guides.

Online Documentation

All Oracle Applications documentation is available online (HTML or PDF).

- **Online Help** - The new features section in the HTML help describes new features in 11i. This information is updated for each new release of **Oracle Process Manufacturing**. The new features section also includes information about any features that were not yet available when this guide was printed. For example, if your administrator has installed software from a mini-packs an upgrade, this document describes the new features. Online help patches are available on MetaLink.

- **11i Features Matrix** - This document lists new features available by patch and identifies any associated new documentation. The new features matrix document is available on MetaLink.
- **Readme File** - Refer to the readme file for patches that you have installed to learn about new documentation or documentation patches that you can download.

Related User's Guides

Oracle Process Manufacturing shares business and setup information with other Oracle Applications products. Therefore, you may want to refer to other user's guides when you set up and use *Oracle Process Manufacturing*.

You can read the guides online by choosing Library from the expandable menu on your HTML help window, by reading from the Oracle Applications Document Library CD included in your media pack, or by using a Web browser with a URL that your system administrator provides.

If you require printed guides, you can purchase them from the Oracle Store at <http://oraclestore.oracle.com>.

Guides Related to All Products

Oracle Applications User's Guide

This guide explains how to enter data, query, run reports, and navigate using the graphical user interface (GUI) available with this release of *Oracle Process Manufacturing* (and any other Oracle Applications products). This guide also includes information on setting user profiles, as well as running and reviewing reports and concurrent processes.

You can access this user's guide online by choosing "Getting Started with Oracle Applications" from any Oracle Applications help file.

User Guides Related to This Product

Accounting Setup User's Guide

The OPM Accounting Setup application is where users set up global accounting attributes about the way financial data will be collected by OPM. These attributes include such things as account keys, financial calendars, and account segments. Since OPM is closely integrated with Oracle General Ledger (GL), much of the

attributes are defined in the Oracle GL instead of OPM, and therefore, the windows are display only within OPM. The *Oracle Process Manufacturing Accounting Setup User's Guide* describes how to setup and use this application.

Cost Management User's Guide

The OPM Cost Management application is used by cost accountants to capture and review the manufacturing costs incurred in their process manufacturing businesses. The *Oracle Process Manufacturing Cost Management User's Guide* describes how to setup and use this application.

Manufacturing Accounting Controller User's Guide

The Manufacturing Accounting Controller application is where users define the impact of manufacturing events on financials. For example, event RCPT (Inventory Receipts) results in a debit to inventory, a credit to accrued accounts payable, a debit or a credit to purchase price variance, etc. These impacts are predefined in the Manufacturing Accounting Controller application so users may begin using OPM to collect financial data out-of-the-box, however, they may also be adjusted per your business needs. The *Oracle Process Manufacturing Manufacturing Accounting Controller User's Guide* describes how to setup and use this application.

Oracle Financials Integration User's Guide

Since OPM is closely integrated with Oracle General Ledger, financial data that is collected about the manufacturing processes must be transferred to the Oracle Financials applications. The OPM Oracle Financials Integration application is where users define how that data is transferred. For example, users define whether data is transferred real time or batched and transferred at intervals. The *Oracle Process Manufacturing Oracle Financials Integration User's Guide* describes how to setup and use this application.

Inventory Management User's Guide

The OPM Inventory Management application is where data about the items purchased for, consumed during, and created as a result of the manufacturing process are tracked. The *Oracle Process Manufacturing Inventory Management User's Guide* includes information to help you effectively work with the Oracle Process Manufacturing Inventory application.

Physical Inventory User's Guide

Performing physical inventory count is the most accurate way to get an accounting of all material quantities purchased, manufactured, and sold, and update your onhand quantities accordingly. The OPM Physical Inventory application automates and enables the physical inventory process. The *Oracle Process Manufacturing Physical Inventory User's Guide* describes how to setup and use this application.

Order Fulfillment User's Guide

The OPM Order Fulfillment application automates sales order entry to reduce order cycle time. Order Fulfillment enables order entry personnel to inform customers of scheduled delivery dates and pricing. The *Oracle Process Manufacturing Order Fulfillment User's Guide* describes how to setup and use this application.

Purchase Management User's Guide

OPM Purchase Management and Oracle Purchasing combine to provide an integrated solution for Process Manufacturing. Purchase orders are entered in Oracle Purchasing and received in OPM. Then, the receipts entered in OPM are sent to Oracle Purchasing. The *Oracle Process Manufacturing Purchase Management User's Guide* describes how to setup and use this integrated solution.

Using Oracle Order Management with Process Inventory Guide

Oracle Process Manufacturing and Oracle Order Management combine to provide an integrated solution for process manufacturers. The manufacturing process is tracked and handled within Oracle Process Manufacturing, while sales orders are taken and tracked in Oracle Order Management. Process attributes, such as dual UOM and lot control, are enabled depending on the inventory organization for the item on the sales order. Order Management accepts orders entered through Oracle Customer Relationship Management (CRM). Within CRM, orders can originate from TeleSales, Sales Online, and iStore, and are booked in Order Management, making the CRM suite of products available to Process customers, through Order Management. The *Oracle Order Management User's Guide* and *Using Oracle Order Management with Process Inventory Guide* describes how to setup and use this integrated solution.

Production Management User's Guide

The OPM Production Management application records information about production batches. It enables you to track production batches and firm planned orders (FPOs), and convert FPOs to single or multiple production batches. In addition, the application is used to allocate ingredients, record actual ingredient

usage, certify and complete production batches, and record actual product production quantities among other production processes. The *Oracle Process Manufacturing Production Management User's Guide* describes how to setup and use this integrated solution.

Process Operation Control User's Guide

The Oracle Process Manufacturing Process Operation Control (POC) application is an extension to the OPM Production Management application, that allows you to record more complete and detailed manufacturing data. The *Oracle Process Manufacturing Process Operation Control User's Guide* describes how to setup and use this application.

Integration with Advanced Planning and Scheduling User's Guide

Oracle Process Manufacturing and Oracle Advanced Planning and Scheduling (APS) combine to provide an integrated solution for process manufacturers that can help increase planning efficiency. The integration provides for constraint-based planning, performance management, materials management by exception, mixed mode manufacturing that enables you to choose the best method to produce each of your products, and combine all of these methods within the same plant/company. The *Oracle Process Manufacturing Integration with Advanced Planning and Scheduling User's Guide* describes how to setup and use this application.

MPS/MRP and Forecasting User's Guide

The Oracle Process Manufacturing Material Requirements Planning (MRP) application provides long-term "views" of material demands and projected supply actions to satisfy those demands. The Master Production Scheduling (MPS) application lets you shorten that view to a much narrower and immediate time horizon, and see the immediate effects of demand and supply actions. The *Oracle Process Manufacturing MPS/MRP and Forecasting User's Guide* describes how to setup and use this application.

Capacity Planning User's Guide

The OPM Capacity Planning User's Guide describes the setup required to use OPM with the Oracle Applications Advanced Supply Chain Planning solutions. In addition, Resource setup, used by the OPM Production Execution and New Product Development applications, is also described.

New Product Development User's Guide

The Oracle Process Manufacturing New Product Development application provides features to manage formula and laboratory work within the process manufacturing operation. It allows you to manage multiple laboratory organizations and support varying product lines throughout the organization. You can characterize and simulate the technical properties of ingredients and their effects on formulas. You can optimize formulations before beginning expensive laboratory test batches. New Product Development coordinates each development function and enables a rapid, enterprise-wide implementation of new products in your plants. The *Oracle Process Manufacturing New Product Development User's Guide* describes how to setup and use this application.

Quality Management User's Guide

The Oracle Process Manufacturing Quality Management application helps track the quality of ingredients and products through the process manufacturing operation. Assays, or ingredient attributes, are defined for acceptable tolerance ranges. Samples are taken and the results are measured against the assays. Out-of-range results are reported. The *Oracle Process Manufacturing Quality Management User's Guide* describes how to setup and use this application.

Regulatory Management User's Guide

The Oracle Process Manufacturing Regulatory Management application generates the Material Safety Data Sheets (MSDSs) required by authorities to accompany hazardous materials during shipping. You can create MSDSs from OPM Formula Management with Regulatory or Production effectivities. The *Oracle Process Manufacturing Regulatory Management User's Guide* describes how to setup and use this application.

Implementation Guide

The *Oracle Process Manufacturing Implementation Guide* offers information on setup. That is, those tasks you must complete following the initial installation of the Oracle Process Manufacturing software. Any tasks that must be completed in order to use the system out-of-the-box are included in this manual.

System Administration User's Guide

Much of the System Administration duties are performed at the Oracle Applications level, and are therefore described in the *Oracle Applications System Administrator's Guide*. The *Oracle Process Manufacturing System Administration User's Guide* provides information on the few tasks that are specific to OPM. It offers information on

performing OPM file purge and archive, and maintaining such things as responsibilities, units of measure, and organizations.

API User's Guides

Public Application Programming Interfaces (APIs) are available for use with different areas of the Oracle Process Manufacturing application. APIs make it possible to pass information into and out of the application, bypassing the user interface. Use of these APIs is documented in individual manuals such as the *Oracle Process Manufacturing Inventory API User's Guide*, *Oracle Process Manufacturing Production Management and Process Operations Control APIs User's Guide*, *Oracle Process Manufacturing Formula API User's Guide*, and the *Oracle Process Manufacturing Cost Management API User's Guide*. Additional API User's Guides are periodically added as additional public APIs are made available.

Installation and System Administration

Oracle Applications Concepts

This guide provides an introduction to the concepts, features, technology stack, architecture, and terminology for Oracle Applications Release 11*i*. It provides a useful first book to read before an installation of Oracle Applications. This guide also introduces the concepts behind Applications-wide features such as Business Intelligence (BIS), languages and character sets, and Self-Service Web Applications.

Installing Oracle Applications

This guide provides instructions for managing the installation of Oracle Applications products. In Release 11*i*, much of the installation process is handled using Oracle Rapid Install, which minimizes the time to install Oracle Applications, the Oracle8 technology stack, and the Oracle8*i* Server technology stack by automating many of the required steps. This guide contains instructions for using Oracle Rapid Install and lists the tasks you need to perform to finish your installation. You should use this guide in conjunction with individual product user's guides and implementation guides.

Upgrading Oracle Applications

Refer to this guide if you are upgrading your Oracle Applications Release 10.7 or Release 11.0 products to Release 11*i*. This guide describes the upgrade process and lists database and product-specific upgrade tasks. You must be either at Release 10.7

(NCA, SmartClient, or character mode) or Release 11.0, to upgrade to Release 11*i*. You cannot upgrade to Release 11*i* directly from releases prior to 10.7.

Maintaining Oracle Applications

Use this guide to help you run the various AD utilities, such as AutoUpgrade, AutoPatch, AD Administration, AD Controller, AD Relink, License Manager, and others. It contains how-to steps, screenshots, and other information that you need to run the AD utilities. This guide also provides information on maintaining the Oracle applications file system and database.

Oracle Applications System Administrator's Guide

This guide provides planning and reference information for the Oracle Applications System Administrator. It contains information on how to define security, customize menus and online help, and manage concurrent processing.

Oracle Alert User's Guide

This guide explains how to define periodic and event alerts to monitor the status of your Oracle Applications data.

Oracle Applications Developer's Guide

This guide contains the coding standards followed by the Oracle Applications development staff. It describes the Oracle Application Object Library components needed to implement the Oracle Applications user interface described in the *Oracle Applications User Interface Standards for Forms-Based Products*. It also provides information to help you build your custom Oracle Forms Developer 6*i* forms so that they integrate with Oracle Applications.

Oracle Applications User Interface Standards for Forms-Based Products

This guide contains the user interface (UI) standards followed by the Oracle Applications development staff. It describes the UI for the Oracle Applications products and how to apply this UI to the design of an application built by using Oracle Forms.

Other Implementation Documentation

Oracle Applications Product Update Notes

Use this guide as a reference for upgrading an installation of Oracle Applications. It provides a history of the changes to individual Oracle Applications products between Release 11.0 and Release 11*i*. It includes new features, enhancements, and changes made to database objects, profile options, and seed data for this interval.

Multiple Reporting Currencies in Oracle Applications

If you use the Multiple Reporting Currencies feature to record transactions in more than one currency, use this manual before implementing **Oracle Process Manufacturing**. This manual details additional steps and setup considerations for implementing **Oracle Process Manufacturing** with this feature.

Multiple Organizations in Oracle Applications

This guide describes how to set up and use **Oracle Process Manufacturing** with Oracle Applications' Multiple Organization support feature, so you can define and support different organization structures when running a single installation of **Oracle Process Manufacturing**.

Oracle Workflow Guide

This guide explains how to define new workflow business processes as well as customize existing Oracle Applications-embedded workflow processes. You also use this guide to complete the setup steps necessary for any Oracle Applications product that includes workflow-enabled processes.

Oracle Applications Flexfields Guide

This guide provides flexfields planning, setup and reference information for the **Oracle Process Manufacturing** implementation team, as well as for users responsible for the ongoing maintenance of Oracle Applications product data. This manual also provides information on creating custom reports on flexfields data.

Oracle eTechnical Reference Manuals

Each eTechnical Reference Manual (eTRM) contains database diagrams and a detailed description of database tables, forms, reports, and programs for a specific Oracle Applications product. This information helps you convert data from your existing applications, integrate Oracle Applications data with non-Oracle

applications, and write custom reports for Oracle Applications products. Oracle eTRM is available on Metalink

Oracle Manufacturing APIs and Open Interfaces Manual

This manual contains up-to-date information about integrating with other Oracle Manufacturing applications and with your other systems. This documentation includes API's and open interfaces found in Oracle Manufacturing.

Oracle Order Management Suite APIs and Open Interfaces Manual

This manual contains up-to-date information about integrating with other Oracle Manufacturing applications and with your other systems. This documentation includes API's and open interfaces found in Oracle Order Management Suite.

Oracle Applications Message Reference Manual

This manual describes all Oracle Applications messages. This manual is available in HTML format on the documentation CD-ROM for Release 11i.

Training and Support

Training

Oracle offers a complete set of training courses to help you and your staff master **Oracle Process Manufacturing** and reach full productivity quickly. These courses are organized into functional learning paths, so you take only those courses appropriate to your job or area of responsibility.

You have a choice of educational environments. You can attend courses offered by Oracle University at any one of our many Education Centers, you can arrange for our trainers to teach at your facility, or you can use Oracle Learning Network (OLN), Oracle University's online education utility. In addition, Oracle training professionals can tailor standard courses or develop custom courses to meet your needs. For example, you may want to use your organization structure, terminology, and data as examples in a customized training session delivered at your own facility.

Support

From on-site support to central support, our team of experienced professionals provides the help and information you need to keep **Oracle Process Manufacturing** working for you. This team includes your Technical Representative, Account

Manager, and Oracle's large staff of consultants and support specialists with expertise in your business area, managing an Oracle8i server, and your hardware and software environment.

Do Not Use Database Tools to Modify Oracle Applications Data

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

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

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

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

About Oracle

Oracle Corporation develops and markets an integrated line of software products for database management, applications development, decision support, and office automation, as well as Oracle Applications, an integrated suite of more than 160 software modules for financial management, supply chain management, manufacturing, project systems, human resources and customer relationship management.

Oracle products are available for mainframes, minicomputers, personal computers, network computers and personal digital assistants, allowing organizations to integrate different computers, different operating systems, different networks, and even different database management systems, into a single, unified computing and information resource.

Oracle is the world's leading supplier of software for information management, and the world's second largest software company. Oracle offers its database, tools, and applications products, along with related consulting, education, and support services, in over 145 countries around the world.

Your Feedback

Thank you for using *Oracle Process Manufacturing* and this user's guide.

Oracle values your comments and feedback. At the end of this guide is a Reader's Comment Form you can use to explain what you like or dislike about *Oracle Process Manufacturing* or this user's guide. Mail your comments to the following address or call us directly at (650) 506-7000.

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Or, send electronic mail to appsdoc_us@oracle.com.

Overview

Advanced Planning and Scheduling (APS) includes the following applications:

- Oracle Advanced Supply Chain Planning (ASCP)
- Oracle Global Order Promising
- Oracle Inventory Optimization
- Oracle Demand Planning

Oracle Process Manufacturing (OPM) integrates with all of the APS applications. OPM users can use Global Order Promising and Inventory Optimization by following the same steps as discrete manufacturing users. This user's guide focuses on using OPM with ASCP and with Demand Planner. The ASCP integration is much more complex than the integration with Demand Planning, so most of this guide focuses on using OPM with ASCP. The integration with Demand Planning is discussed in the last chapter of this guide. For more information about the Advanced Planning and Scheduling suite of applications, refer to the Oracle Advanced Planning and Scheduling Implementation and User's Guide.

Using Advanced Supply Chain Planning with Oracle Process Manufacturing

The integration of Oracle Process Manufacturing (OPM) with Oracle Advanced Supply Chain Planning (ASCP) can help you increase your planning efficiency which can give you a competitive edge. The integration consists of the following features:

- Constraint-based planning that ensures that the plan is feasible and respects all of your constraints.
- Performance management enabled through the Oracle ASCP integration with Oracle BIS and Oracle Workflow. This allows you to:
 - Easily and quickly evaluate a plan based on its impact to target Key Performance Indicators (KPIs)
 - Manage by exception – receive notifications when corrective actions are required
- The ability to collect data from multiple instances.
- Mixed mode manufacturing that enables you to choose the best method to produce each of your products, and combine all of these methods within the same plant/company.

ASCP To OPM Flow

The flow between ASCP and OPM is as follows

- Static and dynamic production planning data transfers from OPM to ASCP.
- ASCP makes selected suggestion based on the data to meet the demands.
- Through OPM you can reschedule, add, and cancel batches and firmed planned orders.

Advantages of Using ASCP

ASCP with OPM offers you the following advantages:

Optimization

You can optimize your plans to financial and other enterprise strategic objectives. Since you can name and save your plans, you can run several plans optimized to different sets of objectives, then employ the Planner Workbench graphical user interface to quickly compare Key Performance Indicators and action messages associated with alternative plans.

Penalty Costs

ASCP also has some built-in optimization objectives such as weighing the penalty costs of late orders against expedited production and delivery costs. You can affect the solution by entering penalty factors, applied as a percent of cost. The optimization process attempts to drive costs out of the solution.

Mapping OPM Data to ASCP

Using ASCP, there are considerations on how you set up the data listed below:

- Organizations
- Items
- Warehouses
- Formulas and Routings
- Resources
- Production and Sales Orders, Forecasts, and Onhand Inventory
- Production Definitions

Setting Up Oracle Applications

Since OPM is integrated with Oracle Purchasing, additional setup in Oracle Applications is required. The following data must be set up for OPM to interface properly with ASCP:

- Organizations
- Items
- Sourcing Rules
- Vendors
- Shipping Methods
- Locations
- Vendors and POs

OPM Functional Changes

With the OPM integration to ASCP, the following methodology exists:

- OPM MRP does *not* need to be executed.
- Finite scheduling is accomplished seamlessly within the Oracle Applications suite. You do not need an outside vendor.
- Planning rules are set up in Oracle Applications not OPM.
- All planning activities can occur on a separate server.
- You are not restricted to a material plan.
- OPM structure needs to mimic Oracle Applications organization structure.

Planning Changes in OPM

If you do not need finite scheduling, then do not change the planning method. You can continue to use the OPM Process Planning applications. If you want to use finite scheduling functionality available in Advanced Supply Chain Planning, make the following changes:

- Set up your planning rules in Oracle Applications instead of OPM.
- Purchase a separate server for all planning activities. Purchasing a separate server is not mandatory, but it is recommended due to the heavy processing load created with ASCP.
- Create multiple plans using different scenarios. Decide which plan to use.
- Set up an organization structure in Oracle Applications that mimics the OPM organization structure by mapping a warehouse to an inventory organization.

Setting Up OPM Data for Use with ASCP

If you are using Oracle Advanced Planning Scheduler, you must set up Oracle Process Manufacturing data so that it can be properly processed. For Release 11i, you must understand the differences in data structure between Oracle Applications and OPM in order to properly set up and use the OPM data with ASCP. The following topics on organization structure for Oracle Applications and OPM are discussed:

- Setting Up OPM Data Overview
- Oracle Applications Organization Structure
- OPM Organization Structure
- OPM Item Master
- OPM Units of Measure, Types and Conversions
- Recipes, Formulas, Validity Rules, and Routings
- Resource Information and ASCP Capacity Planning
- Plant Warehouse Effectivities
- Shop Calendars
- MPS Schedule Parameters
- Production Orders
- Onhand Inventory

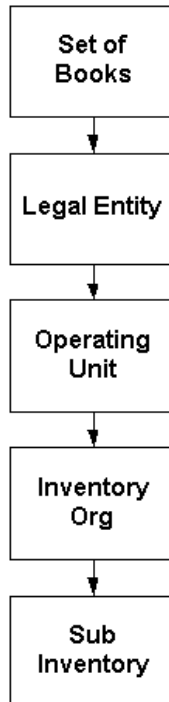
Setting Up OPM Data Overview

When setting up OPM data to use with ASCP consider the differences between Oracle Applications and OPM for the following data:

- Organization Structure
- Resource Warehouses
- Item Set Up
- Units of Measure, Types and Conversion
- Formulas
- Recipes
- Routings
- Resources
- Plant/Warehouse Effectivities
- Shop Calendars
- MPS Schedule Parameters
- Sales Order Demand

Oracle Applications Organization Structure

Before you define any type of organization in Oracle Applications, you must define a set of books. Once a set of books is defined, you can define the legal entities, operating units, inventory organizations, and sub-inventories of your company as shown below.



Entering Transactions and Storing Information in Oracle Applications

Transactions and other information are entered and stored at different levels of the organization structure when using Oracle Applications.

The following information is stored at the operating unit level:

- Sales orders
- Forecast
- Purchase orders

The following information is stored at the inventory organization level:

- Work-in-process
- Planning data

Onhand balances are stored at the sub-inventory level.

Setting Up Organizations in Oracle Applications

When using ASCP with OPM, consider the following when setting up organizations in Oracle Applications.

- Each OPM warehouse must have a corresponding Oracle Applications organization that is defined as an inventory organization.
- ASCP does not recognize the location level, so no special considerations are needed for locations when integrating OPM with ASCP. OPM data can still use location control, but ASCP does not recognize that location control is in use.

OPM Organization Structure

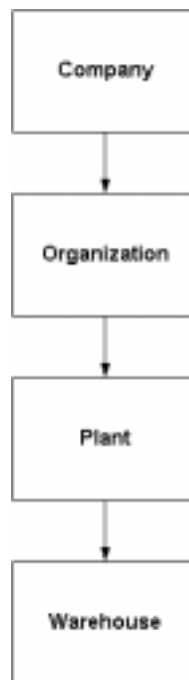
OPM organizations are structured as follows:

- OPM organizations can be companies, parent organizations, staff organizations, inventory organizations, or manufacturing plants.
- OPM organizations defined as companies must maintain a balanced set of books. A company in OPM equates to a set of books defined in Oracle Applications.

Different types of OPM organizations map to the Oracle Applications organization structure as follows:

- OPM organizations map to legal entities and operating units.
- OPM plants map to inventory organizations (with some modifications).

OPM warehouses map to inventory organizations and sub-inventories.



Entering Transactions and Storing Information in Oracle Process Manufacturing

Transactions and other information are entered and stored at different levels of the organization structure when using OPM.

OPM stores the following information at the organization level:

- Sales orders
- Forecast
- Purchase orders

OPM stores the following information at the plant level:

- Production
- Planning
- Onhand balances are stored at the warehouse level.

Setting UP Organizations in OPM

Before you set up organizations in OPM, you need to:

- Develop the organization scheme
- Decide whether or not to use the plant indicator. The plant indicator:
 - Allows production to occur
 - Controls other documents and inventory ownership
 - Does not control PROD and can control other docs plus INV
- Decide whether or not to use the POC indicator. The POC indicator:
 - Allows the collection of routing and resource data for production batches
 - Can be turned off and on. It must be turned on for the APS planning organization.
- If you plan to use the capacity planning function in ASCP, each OPM production plant must have one resource warehouse.
- Multiple production plants can draw raw material inventory from one warehouse to meet their production demand, but model this through transfers for visibility.
- Multiple production plants can supply one warehouse (distribution center), but model this through transfers for visibility.

Resource Warehouses

In OPM, warehouses are linked to plants. Consider the following when creating resource warehouses:

- Resource warehouses are used for capacity planning
- Define the warehouse to be used for production in the plant
- Setting the Plant Indicator on the Organizations window allows for resource warehouse definition
- Plant Warehouse Effectivity. In the Plant Warehouses window, the Replenishment or the Consumption indicator must be turned on to view the plant and the warehouse associated with it. Two plants cannot share a resource warehouse.

OPM Item Master

When setting up the OPM Item Master for use with ASCP, consider the following:

- OPM items are automatically created in Oracle Applications. The OPM items can be used within all Oracle Applications inventory organizations.
- ASCP uses lot control and lot expiration dates for planning.
- Although Oracle Applications only allows the use of one unit of measure per item, you can still use the dual unit of measure functionality in OPM. Item data is reported in the primary UOM.
- Trigger GMF_IC_ITEM_MST_BIUR_TG ensures that both the OPM and the Oracle Applications item masters contain the same items. A re-synchronization routine can be executed to ensure that, as new Oracle Applications inventory organizations are created, all items are added to the new inventory organization.
- Status Control in Oracle Applications allows for nettability of inventory.
- Most of the required attributes are set when the item is synchronized but can be verified by using the Item Master window in Oracle Applications.

Recipes, Formulas, Validity Rules, and Routings

Formulas in OPM are the same as bills of material (BOMs) in Oracle Applications. Oracle Applications has different rules from OPM for BOMs and routings.

Setting Up Formulas

When setting up formulas, consider the following:

- If an OPM formula is used in multiple recipes with different validity rules for a product or for coproducts, ASCP effectively views different formulas. A different formula is reported for coproducts with validity rules.
- ASCP expects only one product per bill of material (in OPM, a formula) and this causes the OPM coproducts and byproducts to be reported as components with negative quantities.
- Linear and fixed scaling is implemented the same as in OPM.
- Item quantities are reported in the primary UOM.

Setting Up Recipes

APS uses recipes to determine formula, routing, and validity rule assignments for a product. APS looks at the data in certain recipe fields first, then, if no data was entered in the fields at the recipe level, APS retrieves the data from the same fields in other windows. You can override the following fields in other windows by changing the field values in a recipe:

- Step Quantity - You use the Step Quantity field when computing the resource usage. If you enter a value in the Step Quantity field in the Recipe Details window, this value overrides the step quantity defined in the Routings window.
- Factor - You use the activity Factor field to indicate how many times you must perform an activity per operation. If you enter a value in the Factor field on the Recipe: Organization Details window, this value overrides the activity factor defined in the Operation Details:Activities window.
- Usage - You use the resource Usage field to indicate the amount of the resource consumed (usually expressed in hours) during the activity step. If you enter a value in the Usage field on the Recipe: Organization Details window, this value overrides the Usage field in the Operation Details Activity-Resource window.
- Process Qty - You use the Process Qty field to indicate the total quantity of material processed by the resource during the activity step. If you enter a value

in the Process Qty field on the Recipe: Organization Details window, this value overrides the Usage field in the Operation Details Activity-Resource window.

Setting Up OPM Validity Rules

When setting up validity rules in OPM, consider the following:

- A one-to-one relationship exists between validity rules and plants. When a validity rule is defined for a specific plant, any warehouse that is defined to replenish the item in the validity rule will have a version of the validity rule in ASCP.
- A one-to-one relationship exists between validity rules and inventory organizations.
- A validity rule defines the primary product.
- If the validity rule is global, then it is applied to all plants where the item can be produced.
- The following validity rule functions can be used with ASCP:
 - Minimum and maximum quantities
 - Start and end effective dates
 - Preference is used to break ties

Setting Up OPM Routings

The OPM routing maps closely to the Oracle Applications routing but there are some restrictions. When setting up routings in OPM, consider the following:

- The flexibility that OPM has for the routing quantity is restricted by Oracle Applications because the quantity must be in the unit of measure of the product being routed to scale properly. The integration takes care of any necessary conversions, but the user interface shows the converted quantity and unit of measure instead of the original quantity and unit of measure defined in OPM.
- In ASCP, only the primary and auxiliary resources have functionality. Resources are assigned a Plan Type indicating primary (1), auxiliary (2), or secondary (0) on the Operations window. In ASCP, secondary resources are ignored. With OPM Capacity Planning, you have the option of using alternate resources.
- ASCP uses resource count and usage quantity information. You record resource count and usage quantity information in the Operations window. For example, if two identical blenders are used for mixing, enter 2 in the Count field. If the resource can mix 200 gallons per hour, enter 200 in the Process Quantity field and 1 in the Usage Quantity field.
- ASCP enables you to use more than one resource at the same time during an operation, but you can not complete more than one operation in a routing at the same time.
- ASCP enables you to overlap an operation with another operation, but this restricts OPM's functionality of allowing concurrent operations and multiple dependent operations. Since ASCP does not provide a way for the user to allow concurrent operations instead of multiple dependent operations (or vice versa), concurrent operations are not allowed with ASCP.
- Routing quantity uses the base UOM of the recipe product and is converted to the UOM of product.
- OPM step equals Oracle Applications operation.
- OPM activity equals Oracle Applications operation resource sequence.
- OPM routing resource equal Oracle Applications operation resource.
- Each activity must have ONLY one primary resource per step. If there were more, the first is selected and the others are ignored. If none exists, then activity is not reported.

Associating Formula Items with Routing Steps

Oracle Applications needs to know the items consumed at each step in the routing in order to calculate the capacity used at each step. You must define the association between formula items and routing steps if you want to create a capacity plan. For more information on defining this association, refer to *Setting Up Routing Step/Formula Items Associations* in the *Oracle Process Manufacturing Process Operation Control User's Guide*.

Resource Information and ASCP Capacity Planning

The Resource Information window defines a relationship between a plant and the resource. In Oracle Applications:

- ASCP acknowledges the plant by the resource warehouse associated with the plant.
- The resource warehouse is associated with an inventory organization. ASCP will have all the resources defined as a department in an inventory organization. The resource warehouse that has been defined for an inventory organization will be used to denote the department. This is NOT done in the Oracle Applications database.

You can use ASCP to develop capacity plans for your resources. The resource warehouse for the plant indicates to ASCP the need to perform capacity planning. The ASCP capacity planning function assumes that all resource capacity is measured in to the unit of measure you set up in the Profile Option MSC:Hour or is convertible to that UOM. The Assigned Quantity field on the Resource Information window indicates the number/quantity of the resource used in the specified plant for which you are defining production costs and usage availability. The number you enter depends on how broad a resource categorization you are defining. For example, if you defined the resource as Blender 1 (a specific machine) you would enter 1. If you use three blenders in the production line, and you defined the resource as Blenders (rather than defining each individual machine) enter 3.

The cost of using a resource for one unit of measure (for example, the cost of running a mixer for one hour) that you define in OPM Cost Management is also used by ASCP, but this cost needs to be recorded in the Planning Cost field on the Resource Information window. ASCP assumes the unit of measure for all resources is an hour.

Plant Warehouse Effectivities

Plant warehouse effectivities define plant/warehouse relationships. Plant warehouse effectivities specify the warehouses from which a plant consumes each item when it is used as an ingredient in a batch. They also specify the warehouses that a plant replenishes with each item when the item is a product of a batch.

On the Plant Warehouses window, global and warehouse items are valid. If the Warehouse Item field is left blank for a particular warehouse, then any item can be consumed from or replenished to that warehouse. The plant warehouse effectivity item consumption and replenishment rules are enforced by ASCP for both global and warehouse items.

Note that setting global rules increases the amount of data transferred since all warehouse item data is transferred, regardless of whether or not the warehouse items are actually consumed or replenished from the warehouse.

You can transfer items between warehouses as long as the item is defined in plant warehouse effectivities as a global or a specific rule. The consumption and replenishment indicators for the item/warehouse combination can be turned off and the item/warehouse combination can still be considered for transfers.

Shop Calendars

Consider the following when setting up shop calendars in OPM:

- When the shop calendar is interfaced to ASCP, four relationships are created; the production calendar, weekly buckets, period buckets, and net available resources. The production calendar indicates the days planning can occur. The weekly buckets represent the weeks on which planning can occur and the period buckets represent months. The resources are applied to the shifts, defining the time available for production, which creates the fourth relationship, net available resources.
- OPM shop calendars must be carefully defined to avoid shift duplication in ASCP. When planning shifts in the OPM shop calendar, do not allow a shift to go past 12 a.m. ASCP expects shifts to occur during a calendar day (12 a.m. to 11:59 p.m.) but OPM allows shifts to go past 12 a.m. and into the next day.
- When an OPM shift overlaps with a shift the next day, one longer shift is created. If a shift engulfs another shift the next day, the engulfed shift disappears. Since ASCP does not account for shift overlaps, it is possible for duplicate shift names to appear within the same day.
- You can enter a shop calendar in the Organizations window when you define an organization as a manufacturing plant. ASCP uses this shop calendar to determine resource availability for the organization. Although entering the shop calendar is optional, you must enter the calendar in order for ASCP to perform constraint-based planning.

MPS Schedule Parameters

When you define Master Production Schedule (MPS) parameters in OPM, you indicate which plants are included in a schedule and select the criteria for including different sources of inventory supply and demand. The MPS schedule parameters serve the same purpose in ASCP and are used to create the ASCP Master Demand Schedule. The ASCP master demand schedule includes all plants linked to the MPS schedule in the MPS Schedule Parameters window detail.

Consider the following when setting up schedules in MPS:

- The MPS schedule must have a unique, five character name. The ASCP master demand schedule name consists of the MPS schedule name and the warehouse name. For example, a MPS schedule named SCHD1 for resource warehouse RSW1 would result in a master demand schedule named SCHD1/RSW1.
- The Make to Stock field on the MPS Schedule Parameters window allows you to choose whether or not to include forecasts as a source of demand. The Make to Order field allows you to choose whether or not to include sales orders as a source of demand. The Plant Warehouse Effectivity window defines the items and warehouses from which to pull the demand for each plant linked to the MPS schedule.
- ASCP ignores the calendar associated with each organization in the schedule details region of the MPS Schedule Parameters window. This calendar field is only used when performing an MRP run using the OPM MRP application. Instead, ASCP references the calendar associated with an organization in the Organizations window.

MPS and OPM Sales Orders

The MPS schedule collects unshipped sales order information based on the following criteria:

- You select Include Sales Orders in the Make to Order field on the MPS Schedule Parameters window.
- The sales order lines are scheduled to ship from warehouses that are listed as warehouses for a plant on the MPS schedule.
- These same rules apply to the ASCP master demand schedule.
- Ensure that a plant is linked to only one MPS schedule. If more than one MPS schedule is linked to one plant, the sales order demand for the plant will be duplicated in all of the MPS schedules that contain the plant.

MPS and Forecasts

The setup steps necessary to use forecast consumption for ASCP are the same setup steps you must complete when using forecast consumption in OPM. Forecast information created and linked to an MPS schedule in OPM is used by ASCP to create the master demand schedule. The forecasts used by the MPS schedule are specified on the Forecast Schedule Association window. A forecast can contain any number of items in various warehouses, but the schedule only uses those items that are valid to replenish into a warehouse according to the Plant Warehouses window.

If you want to use forecast information when creating the master demand schedule, you must select Include Sales Forecasts in the Make to Stock field and Include Sales Orders in the Make to Order field of the MPS Schedule Parameters window. Since one forecast can be used in multiple MPS schedules, be careful not to duplicate the demand for an item in a warehouse.

Production Orders

ASCP views production orders as follows:

- ASCP views pending OPM production orders as a source of supply and demand.
- ASCP can only view pending OPM production orders (firm planned orders, pending batches, and work-in-process batches) for those items that have a item/warehouse/plant relationship defined on the Plant Warehouses window.
- You must turn on Production Operations Control (POC) for a plant and you must define a resource warehouse for a plant if you want to create capacity plans for the plant. If POC is turned on, OPM collects the plant's routing and resource requirements once a batch is created and the batch information is transferred to ASCP. If a plant does not have a resource warehouse, routing and resource data is not transferred to ASCP.
- The ingredients for a batch must come from a single warehouse/inventory organization. ASCP does not allow the allocation of ingredients from multiple inventory organizations. OPM works around this issue by using the work-in-process warehouse or the resource warehouse, if available, as the single source of ingredients inventory when the batch has multiple sources or destinations. The work-in-process warehouse or the resource warehouse shows ASCP from where to allocate inventory.
- The quantity of a batch product's line items is reported in the converted primary unit of measure of the item.
- Firm planned orders are viewed by ASCP the same as batches, except the firm planned order routing and resource requirements are not considered. Routing and resource requirements are considered once a firm planned order is converted into a batch and POC is on for the plant.
- Production rules (defined in OPM Inventory) are not required, but they do ensure that batches created meet fixed and variable leadtime requirements.

Onhand Inventory

Consider the following differences in ASCP for onhand inventory:

- ASCP only sees the on-hand inventory of item/warehouse combinations defined for the plant that is attached to the MPS schedule.
- If a lot has expired, ASCP considers the lot as unavailable inventory at the time it expires. It also does not suggest that you use the available lot that is closer than the other lots to expiring.
- OPM and ASCP observe lot statuses and does not consider a lot for consumption unless the lot status identifies the lot as nettable. The balance is not sent to ASCP if the lot is not nettable.

Setting Up Data in Oracle Applications

Data must be set up in Oracle Applications as well as OPM. The following topics are discussed:

- Automatically Create Oracle Items
- Defining Sourcing Rules
- Assignment Sets
- Creating ASCP Plans

Automatically Create Oracle Items

The OPM Item Master trigger automatically creates items in Oracle Applications that map to OPM items. These new Applications items are defined as inventory items. The following list shows the item attributes that can be assigned to newly created items:

- General Planning
 - Make or Buy (required)
 - Minimum and Maximum order quantity
 - Fixed Days Supply
 - Fixed Lot Multiplier (used to calculate the Economic Order Quantity)
 - Fixed Order Quantity
 - Safety Stock
- Lead Times
 - Fixed or Variable lead time
- Purchasing
 - List Price
 - Purchasable (checkbox)
- MPS/MRP Planning
 - Planning Time Fence
 - Demand Time Fence
 - Planning Method is MRP planning (required)
 - Forecast Control is Consume and derive if you are a Demand Planner user and want to see this item in Demand Planner.
- Work In Process
 - Build in WIP (required if producible)

- Order Management
 - ATP Components
 - Check ATP
- Main
 - Primary Unit of Measure is the OPM item primary unit of measure
(**Caution:** The user should not change this UOM because it is mapped to the UOM value that exists in OPM)
- Inventory
 - Inventory Item (checkbox)

Defining Sourcing Rules

Sourcing rules and bills of distribution determine the movement of material between organizations. These organizations include supplier, manufacturing, and distribution facilities. The total allocation percentage for all sources within a rank must add up to 100%. The sources with the highest rank (lowest numerical value) have the highest priority in allocations. When sources of the highest rank have no more capacity, allocation is performed for sources in the next highest rank.

Using sourcing rules, you can define from where you receive materials. If you transfer materials from an organization, define the source and destination organization, the lead time, and the shipping method. If you manufacture materials, define which organization receives the manufactured items. If you purchase materials, define the vendor and the organization that receives the items.

Follow the Oracle Applications methodology for setting up sourcing rules. For more information about sourcing rules, refer to the Oracle Master Scheduling/MRP and Oracle Supply Chain Planning User's Guide.

Assignment Sets

The supply chain for different products can vary. Items are associated with their sourcing rules in an assignment set. The assignment set creates the sourcing and transfer links between organizations for a particular item.

Different supply chains can be modeled by creating alternative assignment sets.

The assignment set to be used for generating a supply chain plan is specified in the planning options for the supply chain plan name. You can name and create several alternative supply chain plans, then use the Planner's WorkBench to compare key performance indicators resulting from your alternative plans.

Assignment sets give you the ability to combine many sourcing rules into a group and to source by item or by item/organization.

See: Oracle Master Scheduling/MRP and Oracle Supply Chain Planning User's Guide on Assignment Sets.

Creating ASCP Plans

MRP, MPS, and Distribution Requirements Planning (DRP) plans are created in ASCP. You choose which type of plan for ASCP to create. ASCP pulls data from the database instances that you specify. You can also specify which data to pull and how often to pull. For example, you could pull master data daily and supply/demand data more frequently.

You can select from the following time granularities to represent the planning horizon:

- Days
- Weeks
- Months

In addition, you can specify the portion of the time horizon in which scheduling should occur and the time granularities during this period. You can select from the following time granularities for the scheduling horizon:

- Minutes
- Hours
- Days

When setting up the options for your plan, you specify the organizations covered by your plan, the Master Demand Schedule (MDS) that is driving your production plan, and the assignment sets you want to use. After you have set your plan options, you use the Launch window to initiate the planning calculations. Note that the OPM data extract process creates MDSs for inventory organizations. The name of the MDS is generated by concatenating Scheduling/Organization.

Using ASCP Data in OPM

Planning suggestions based on data collection retrieved from OPM by the ASCP Planner Workbench are sent back to OPM Process Planning. You can react to the suggestions accordingly. The following topics are discussed:

- Using the ASCP Data in OPM Overview
- Rescheduling Existing Batches
- Scheduling New Batches from ASCP Planner Workbench Suggestions
- Accepting or Rejecting ASCP Planner Workbench Cancellation Suggestions

Using the ASCP Data in OPM Overview

The ASCP system calculates planning suggestions (either reschedule orders, the creation of purchasing or production orders, or cancel orders) in ASCP. You can selectively release the ASCP planning suggestions to OPM. For example, you can release suggestions by item or by inventory organization. When the planning suggestions are released, the purchase orders are sent to Oracle Purchasing and planned orders and production orders related to OPM organizations are sent to OPM. For OPM, the planner has the option of executing some or all of the planning suggestions by creating either new firm planned orders or production orders, rescheduling existing firm planned orders or production orders, or cancelling existing firm planned orders or production orders. You can execute the planning suggestion release process from ASCP multiple times, but not for the same planning suggestions. Once planning suggestions are released, you cannot release them from ASCP again.

Rescheduling Existing Batches

Once you receive information back from an ASCP Planner Workbench run, you can view the reschedule suggestions in OPM. You view this information on the Reschedule Update window.

Rescheduling Existing Batches Procedure

1. Navigate to the **Reschedule Update** window.
2. Complete the fields as described.
3. Click **Reschedule**.

Reschedule Update Buttons

Reject

Click this button if you reject the selected suggestions for rescheduling thereby maintaining existing dates for batches/FPOs for rescheduling.

Reschedule

Click this button to reschedule the selected batches.

Cancel

Click this button to cancel and exit the window without taking any action.

Reschedule Update Window Field References

Plant Code

Enter the code for the plant for which you submitted an ASCP Planner Workbench run.

Group ID

From the list, select the group ID whose suggestions you want to approve. The group ID was displayed when you selected a group of suggestions you want to release from the ASCP Planner Workbench run. The list displayed contains the date and the remaining suggestions associated with the group ID.

Date

The date is populated when you select the group ID. This is the date that the group ID was generated from the ASCP Planner Workbench run.

Update Details

Select

Click this check box if you want to reschedule the listed batch/FPO.

Warehouse

Displays the warehouse in which the batch is scheduled.

Type

Displays either batch or FPO.

Batch/FPO Number

Displays the batch or FPO number.

Old PST

Displays the original planned start time.

Plan PST

Displays the suggested planned start time.

Planned Quantity

Displays the planned batch quantity.

Plan End Date

Displays the planned end date.

Product

Displays the code for the primary product produced by the batch.

Routing

Displays the code for the routing of the batch/FPOs primary product.

Scheduling New Batches from ASCP Planner Workbench Suggestions

Once you receive suggestions back from an Oracle Applications ASCP Planner Workbench run, you can view the new batch suggestions in OPM and convert them into OPM production batches or FPOs. You view this information on the Imported Batches window.

Scheduling New Batches from Suggestions Procedure

1. Navigate to the **Imported Batches** window.
2. Complete the fields as described.
3. Click **Convert**.

Imported Batches Buttons

Reject

Click this button if you want to reject the suggestions for creating new batches/FPOs.

Convert

Click this button if you want to convert the imported batches into OPM production batches or FPOs. After clicking Convert, the OPM Process Execution APIs create new batches/FPOs and you may be prompted for more data input based on your setup.

Cancel

Click this button to cancel and exit the window without taking any action.

Imported Batches Field References

Plant Code

Enter the plant code (organization code) associated with the ASCP Planner Workbench run.

Group ID

From the list, select the group ID whose suggestions you want to approve. The group ID was displayed when you selected a group of suggestions you want to

release from the ASCP Planner Workbench run. The list displayed contains the date and the remaining suggestions associated with the group ID.

Date

The date is populated when you select the group ID. This is the date that the group ID was generated from the ASCP Planner Workbench run.

Approve As

Select Batch, Firmed Planned Order, Reject.

Order Details

Select

Click this box to select the batches/FPOs you want to approve.

Warehouse

Displays the warehouse associated with the batches/FPOs.

Batch/FPO Number

If you have manual document ordering, enter the code for the batch or FPO otherwise the code is automatically generated.

Product

Displays the code of the primary product produced by the batch.

Planned Qty

Displays the planned quantity of the primary product.

UOM

Displays the units of measure in which the primary product is produced.

Start Date

Displays the start date of the batch/FPO.

Description

Displays a description of the product produced by the batch.

End Date

Displays the date by which the product is produced.

Formula

Displays the name of the formula on which the production batch is based.

Routing

Displays the routing code of the primary product produced by the formula.

Accepting or Rejecting ASCP Planner Workbench Cancellation Suggestions

Once you receive suggestions back from an Oracle Applications ASCP Planner Workbench run, you can view the cancellation suggestions in OPM and accept or reject the suggestions. Rejecting the cancellation suggestions keeps the batch/FPO, as originally scheduled. You view this information on the Batch Cancellations window.

Accepting or Rejecting Cancellation Suggestions Procedure

1. Navigate to the **Batch Cancellations** window.
2. Complete the fields as described.
3. Click **Cancel** to cancel the batches/FPOs or **Reject** to reject the cancellation suggestion and schedule the batches/FPOs.

Batch Cancellations Buttons

Reject

Click this button if you want to reject cancellation of the batches/FPOs. The FPOs or Batches remain scheduled.

Cancel Batch

Click this button if you want to cancel the batches/FPOs from OPM production.

Cancel

Click this button to cancel and exit the window without taking any action.

Batch Cancellations Field References

Plant Code

Enter the plant code (organization code) associated with the ASCP Planner Workbench run.

Group ID

From the list, select the group ID whose suggestions you want to approve. The group ID was displayed when you selected a group of suggestions you want to

release from the ASCP Planner Workbench run. The list displayed contains the date and the remaining suggestions associated with the group ID.

Date

The date is populated when you select the group ID. This is the date that the group ID was generated from the ASCP Planner Workbench run.

Update Details

Select

Click this check box to select the batches/FPOs you want to cancel or reject cancellation (in effect schedule).

Warehouse

Displays the warehouse associated with the batches/FPOs.

Type

Displays either batch or FPO.

Batch/FPO Number

Displays the batch or FPO number.

Old PST

Displays the original planned start time

Plan PST

Displays the suggested planned start time.

Product

Displays the code of the primary product produced by the batch.

Planned Quantity

Displays the planned quantity of the primary product.

Plan End Date

Displays the date by which the product is produced.

Routing

Displays the routing code of the primary product produced by the formula.

Using Demand Planning with Oracle Process Manufacturing

No additional setup is required for Demand Planning to consider OPM customer demand. Read about how to use Demand Planning in the Oracle Advanced Planning and Scheduling Implementation and User's Guide.

The following topics are discussed:

- Referencing OPM Data in Demand Planning
- Importing Demand Planning Output into OPM

Referencing OPM Data in Demand Planning

The following list is the OPM demand data automatically considered by Demand Planning:

- Sales orders shipped from OPM warehouses (process-enabled organizations)
- OPM forecasts
- OPM calendars
- OPM items are copied into Oracle Inventory tables. Demand Planning copies OPM items from the Oracle Inventory tables.

In Demand Planning, you can explore the above OPM data within the framework of four seeded dimensions and two user-defined dimensions. The four dimensions seeded with OPM data are Geography, Ship from Location (organization dimension), Product, and Time. For the purposes of drilling down to the hierarchies and levels of each dimension, the following differences exist between Discrete and Process Manufacturing:

- A discrete Business Group is a process Company
- A discrete Legal Entity is a process Parent Organization
- A discrete Operating Unit is a process Organization
- A discrete Organization is a process Warehouse
- The Product dimension has two hierarchies. In the Product Category hierarchy, the OPM default category is MISC.

Importing Demand Planning Output into OPM

After you publish a demand planning forecast back to your OPM instance, you can import the Demand Planning forecast and create or replace an OPM forecast.

Publishing a demand planning forecast back to the source instance is an optional step for discrete manufacturing ASCP users, but it is a required step for OPM users who use Demand Planning either with or without ASCP.

Importing the Demand Planning Output Procedure

1. Navigate to the **Submit Request** window within the OPM Process Planning responsibility.
2. Enter the report OPM Forecast Designator (Feedback from DP) in the **Name** field. Required.
3. The **Parameters** window opens. Select an existing **Forecast Name** from the list of values. The forecast names in the list include all of the Demand Planning forecast names published back to your OPM instance. If you select a Demand Planning forecast name that has the same name as an existing OPM forecast, the existing OPM forecast is overridden by the Demand Planning forecast data. Otherwise, a new OPM forecast is created. Required.
4. In the **Warehouse Name** field, select a warehouse from the list of values to import forecast data for only one warehouse or leave the field blank to import forecast data for all warehouses. Required.
5. Click **OK**.
6. In the **Submit Request** window, click **Submit**.

Note: Discrete manufacturing only allows 10 characters in a name, while OPM allows 16 characters. Therefore, you must use the profile option, GMP: Shorten Forecast Name, to resolve this discrepancy. Valid options are (Y)es and (N)o. If the value is yes, then the names are shortened and used in Demand Planning. If the value is no, you can technically still use Demand Planning, but those names that are not shortened are not used.

A

Appendix

This topic explains the typical APS navigation paths in OPM. The following topic is covered:

- OPM APS Navigator Paths

OPM APS Navigator Paths

Although your System Administrator may have customized your Navigator, typical navigation paths are described in the following table. In some cases, there is more than one way to navigate to a window. This table provides the most typical default path.

Window	Path
Reschedule Update	OPM Process Planning:Capacity Planning:Production Updates:APS Reschedule
Imported Batches	OPM Process Planning:Capacity Planning:Production Updates:APS New Batch
Batch Cancellations	OPM Process Planning:Capacity Planning:Production Updates:APS Cancel Batch

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