



PeopleSoft EnterpriseOne Requirements Planning 8.11 PeopleBook

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PeopleSoft EnterpriseOne Requirements Planning 8.11 PeopleBook

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About This PeopleBook Preface

PeopleBooks provide you with the information that you need to implement and use PeopleSoft applications.

This preface discusses:

- PeopleSoft application prerequisites.
- PeopleSoft application fundamentals.
- Documentation updates and printed documentation.
- Additional resources.
- Typographical conventions and visual cues.
- Comments and suggestions.
- Common elements in PeopleBooks.

Note. PeopleBooks document only page elements, such as fields and check boxes, that require additional explanation. If a page element is not documented with the process or task in which it is used, then either it requires no additional explanation or it is documented with common elements for the section, chapter, PeopleBook, or product line. Elements that are common to all PeopleSoft applications are defined in this preface.

PeopleSoft Application Prerequisites

To benefit fully from the information that is covered in these books, you should have a basic understanding of how to use PeopleSoft applications.

You might also want to complete at least one PeopleSoft introductory training course, if applicable.

You should be familiar with navigating the system and adding, updating, and deleting information by using PeopleSoft menus, and pages, forms, or windows. You should also be comfortable using the World Wide Web and the Microsoft Windows or Windows NT graphical user interface.

These books do not review navigation and other basics. They present the information that you need to use the system and implement your PeopleSoft applications most effectively.

PeopleSoft Application Fundamentals

Each application PeopleBook provides implementation and processing information for your PeopleSoft applications. For some applications, additional, essential information describing the setup and design of your system appears in a companion volume of documentation called the application fundamentals PeopleBook. Most PeopleSoft product lines have a version of the application fundamentals PeopleBook. The preface of each PeopleBook identifies the application fundamentals PeopleBooks that are associated with that PeopleBook.

The application fundamentals PeopleBook consists of important topics that apply to many or all PeopleSoft applications across one or more product lines. Whether you are implementing a single application, some combination of applications within the product line, or the entire product line, you should be familiar with the contents of the appropriate application fundamentals PeopleBooks. They provide the starting points for fundamental implementation tasks.

Documentation Updates and Printed Documentation

This section discusses how to:

- Obtain documentation updates.
- Order printed documentation.

Obtaining Documentation Updates

You can find updates and additional documentation for this release, as well as previous releases, on the PeopleSoft Customer Connection website. Through the Documentation section of PeopleSoft Customer Connection, you can download files to add to your PeopleBook Library. You'll find a variety of useful and timely materials, including updates to the full PeopleSoft documentation that is delivered on your PeopleBooks CD-ROM.

Important! Before you upgrade, you must check PeopleSoft Customer Connection for updates to the upgrade instructions. PeopleSoft continually posts updates as the upgrade process is refined.

See Also

PeopleSoft Customer Connection, <https://www.peoplesoft.com/corp/en/login.jsp>

Ordering Printed Documentation

You can order printed, bound volumes of the complete PeopleSoft documentation that is delivered on your PeopleBooks CD-ROM. PeopleSoft makes printed documentation available for each major release shortly after the software is shipped. Customers and partners can order printed PeopleSoft documentation by using any of these methods:

- Web
- Telephone
- Email

Web

From the Documentation section of the PeopleSoft Customer Connection website, access the PeopleBooks Press website under the Ordering PeopleBooks topic. The PeopleBooks Press website is a joint venture between PeopleSoft and MMA Partners, the book print vendor. Use a credit card, money order, cashier's check, or purchase order to place your order.

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Contact MMA Partners at 877 588 2525.

Email

Send email to MMA Partners at peoplesoftpress@mmapartner.com.

See Also

PeopleSoft Customer Connection, <https://www.peoplesoft.com/corp/en/login.jsp>

Additional Resources

The following resources are located on the PeopleSoft Customer Connection website:

Resource	Navigation
Application maintenance information	Updates + Fixes
Business process diagrams	Support, Documentation, Business Process Maps
Interactive Services Repository	Interactive Services Repository
Hardware and software requirements	Implement, Optimize + Upgrade, Implementation Guide, Implementation Documentation & Software, Hardware and Software Requirements
Installation guides	Implement, Optimize + Upgrade, Implementation Guide, Implementation Documentation & Software, Installation Guides and Notes
Integration information	Implement, Optimize + Upgrade, Implementation Guide, Implementation Documentation and Software, Pre-built Integrations for PeopleSoft Enterprise and PeopleSoft EnterpriseOne Applications
Minimum technical requirements (MTRs) (EnterpriseOne only)	Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms
PeopleBook documentation updates	Support, Documentation, Documentation Updates
PeopleSoft support policy	Support, Support Policy
Prerelease notes	Support, Documentation, Documentation Updates, Category, Prerelease Notes
Product release roadmap	Support, Roadmaps + Schedules
Release notes	Support, Documentation, Documentation Updates, Category, Release Notes
Release value proposition	Support, Documentation, Documentation Updates, Category, Release Value Proposition
Statement of direction	Support, Documentation, Documentation Updates, Category, Statement of Direction

Resource	Navigation
Troubleshooting information	Support, Troubleshooting
Upgrade documentation	Support, Documentation, Upgrade Documentation and Scripts

Typographical Conventions and Visual Cues

This section discusses:

- Typographical conventions.
- Visual cues.
- Country, region, and industry identifiers.
- Currency codes.

Typographical Conventions

This table contains the typographical conventions that are used in PeopleBooks:

Typographical Convention or Visual Cue	Description
Bold	Indicates PeopleCode function names, business function names, event names, system function names, method names, language constructs, and PeopleCode reserved words that must be included literally in the function call.
<i>Italics</i>	Indicates field values, emphasis, and PeopleSoft or other book-length publication titles. In PeopleCode syntax, italic items are placeholders for arguments that your program must supply. We also use italics when we refer to words as words or letters as letters, as in the following: Enter the letter <i>O</i> .
KEY+KEY	Indicates a key combination action. For example, a plus sign (+) between keys means that you must hold down the first key while you press the second key. For ALT+W, hold down the ALT key while you press the W key.
Monospace font	Indicates a PeopleCode program or other code example.
“ ” (quotation marks)	Indicate chapter titles in cross-references and words that are used differently from their intended meanings.

Typographical Convention or Visual Cue	Description
. . . (ellipses)	Indicate that the preceding item or series can be repeated any number of times in PeopleCode syntax.
{ } (curly braces)	Indicate a choice between two options in PeopleCode syntax. Options are separated by a pipe ().
[] (square brackets)	Indicate optional items in PeopleCode syntax.
& (ampersand)	When placed before a parameter in PeopleCode syntax, an ampersand indicates that the parameter is an already instantiated object. Ampersands also precede all PeopleCode variables.

Visual Cues

PeopleBooks contain the following visual cues.

Notes

Notes indicate information that you should pay particular attention to as you work with the PeopleSoft system.

Note. Example of a note.

If the note is preceded by *Important!*, the note is crucial and includes information that concerns what you must do for the system to function properly.

Important! Example of an important note.

Warnings

Warnings indicate crucial configuration considerations. Pay close attention to warning messages.

Warning! Example of a warning.

Cross-References

PeopleBooks provide cross-references either under the heading “See Also” or on a separate line preceded by the word *See*. Cross-references lead to other documentation that is pertinent to the immediately preceding documentation.

Country, Region, and Industry Identifiers

Information that applies only to a specific country, region, or industry is preceded by a standard identifier in parentheses. This identifier typically appears at the beginning of a section heading, but it may also appear at the beginning of a note or other text.

Example of a country-specific heading: “(FRA) Hiring an Employee”

Example of a region-specific heading: “(Latin America) Setting Up Depreciation”

Country Identifiers

Countries are identified with the International Organization for Standardization (ISO) country code.

Region Identifiers

Regions are identified by the region name. The following region identifiers may appear in PeopleBooks:

- Asia Pacific
- Europe
- Latin America
- North America

Industry Identifiers

Industries are identified by the industry name or by an abbreviation for that industry. The following industry identifiers may appear in PeopleBooks:

- USF (U.S. Federal)
- E&G (Education and Government)

Currency Codes

Monetary amounts are identified by the ISO currency code.

Comments and Suggestions

Your comments are important to us. We encourage you to tell us what you like, or what you would like to see changed about PeopleBooks and other PeopleSoft reference and training materials. Please send your suggestions to:

PeopleSoft Product Documentation Manager PeopleSoft, Inc. 4460 Hacienda Drive Pleasanton, CA 94588

Or send email comments to doc@peoplesoft.com.

While we cannot guarantee to answer every email message, we will pay careful attention to your comments and suggestions.

Common Elements Used in PeopleBooks

Address Book Number

Enter a unique number that identifies the master record for the entity. An address book number can be the identifier for a customer, supplier, company, employee, applicant, participant, tenant, location, and so on. Depending on the application, the field on the form might refer to the address book number as the customer number, supplier number, or company number, employee or applicant id, participant number, and so on.

As If Currency Code	Enter the three-character code to specify the currency that you want to use to view transaction amounts. This code allows you to view the transaction amounts as if they were entered in the specified currency rather than the foreign or domestic currency that was used when the transaction was originally entered.
Batch Number	Displays a number that identifies a group of transactions to be processed by the system. On entry forms, you can assign the batch number or the system can assign it through the Next Numbers program (P0002).
Batch Date	Enter the date in which a batch is created. If you leave this field blank, the system supplies the system date as the batch date.
Batch Status	Displays a code from user-defined code (UDC) table 98/IC that indicates the posting status of a batch. Values are: <i>Blank:</i> Batch is unposted and pending approval. <i>A:</i> The batch is approved for posting, has no errors and is in balance, but it has not yet been posted. <i>D:</i> The batch posted successfully. <i>E:</i> The batch is in error. You must correct the batch before it can post. <i>P:</i> The system is in the process of posting the batch. The batch is unavailable until the posting process is complete. If errors occur during the post, the batch status changes to E. <i>U:</i> The batch is temporarily unavailable because someone is working with it, or the batch appears to be in use because a power failure occurred while the batch was open.
Branch/Plant	Enter a code that identifies a separate entity as a warehouse location, job, project, work center, branch, or plant in which distribution and manufacturing activities occur. In some systems, this is called a business unit.
Business Unit	Enter the alphanumeric code that identifies a separate entity within a business for which you want to track costs. In some systems, this is called a branch/plant.
Category Code	Enter the code that represents a specific category code. Category codes are user-defined codes that you customize to handle the tracking and reporting requirements of your organization.
Company	Enter a code that identifies a specific organization, fund, or other reporting entity. The company code must already exist in the F0010 table and must identify a reporting entity that has a complete balance sheet.
Currency Code	Enter the three-character code that represents the currency of the transaction. PeopleSoft EnterpriseOne provides currency codes that are recognized by the International Organization for Standardization (ISO). The system stores currency codes in the F0013 table.
Document Company	Enter the company number associated with the document. This number, used in conjunction with the document number, document type, and general ledger date, uniquely identifies an original document. If you assign next numbers by company and fiscal year, the system uses the document company to retrieve the correct next number for that company.

If two or more original documents have the same document number and document type, you can use the document company to display the document that you want.

Document Number

Displays a number that identifies the original document, which can be a voucher, invoice, journal entry, or time sheet, and so on. On entry forms, you can assign the original document number or the system can assign it through the Next Numbers program.

Document Type

Enter the two-character UDC, from UDC table 00/DT, that identifies the origin and purpose of the transaction, such as a voucher, invoice, journal entry, or time sheet. PeopleSoft EnterpriseOne reserves these prefixes for the document types indicated:

P: Accounts payable documents.

R: Accounts receivable documents.

T: Time and pay documents.

I: Inventory documents.

O: Purchase order documents.

S: Sales order documents.

Effective Date

Enter the date on which an address, item, transaction, or record becomes active. The meaning of this field differs, depending on the program. For example, the effective date can represent any of these dates:

- The date on which a change of address becomes effective.
- The date on which a lease becomes effective.
- The date on which a price becomes effective.
- The date on which the currency exchange rate becomes effective.
- The date on which a tax rate becomes effective.

Fiscal Period and Fiscal Year

Enter a number that identifies the general ledger period and year. For many programs, you can leave these fields blank to use the current fiscal period and year defined in the Company Names & Number program (P0010).

G/L Date (general ledger date)

Enter the date that identifies the financial period to which a transaction will be posted. The system compares the date that you enter on the transaction to the fiscal date pattern assigned to the company to retrieve the appropriate fiscal period number and year, as well as to perform date validations.

PeopleSoft EnterpriseOne Requirements Planning Preface

This preface discusses:

- PeopleSoft products.
- PeopleSoft application fundamentals.

PeopleSoft Products

This PeopleBook refers to these PeopleSoft products:

- PeopleSoft EnterpriseOne Inventory Management
- PeopleSoft EnterpriseOne Base Configurator
- PeopleSoft EnterpriseOne Forecast Management
- PeopleSoft EnterpriseOne Shop Floor Management
- PeopleSoft EnterpriseOne Product Costing
- PeopleSoft EnterpriseOne Manufacturing Accounting
- PeopleSoft EnterpriseOne Sales Order Management
- PeopleSoft EnterpriseOne Procurement
- PeopleSoft EnterpriseOne Engineer to Order

PeopleSoft Application Fundamentals

Additional, essential information describing the setup and design of the system appears in a companion volume of documentation called *PeopleSoft EnterpriseOne Product Data Management*.

See Also

PeopleSoft EnterpriseOne Product Data Management 8.11 PeopleBook, “PeopleSoft EnterpriseOne Product Data Management Preface”

CHAPTER 1

Getting Started with PeopleSoft EnterpriseOne Requirements Planning

This chapter provides an overview of PeopleSoft Requirements Planning and discusses:

- PeopleSoft Requirements Planning integrations.
- PeopleSoft Requirements Planning implementation.

PeopleSoft Requirements Planning Overview

PeopleSoft Requirements Planning provides a means for you to use resource planning tools in distribution or manufacturing environments. PeopleSoft Requirements Planning enables you to use supply and demand balancing logic to create material schedules and detailed production plans that support single-facility or multi-facility planning.

With PeopleSoft EnterpriseOne Requirements Planning, you can:

- Generate demand projections that you use as input for the PeopleSoft EnterpriseOne planning and scheduling systems.
- Use capacity planning to ensure that sufficient capacity is available to accomplish the planned production schedule.
- Generate a distribution or production plan for one facility.
- Produce a single-facility MRP planning schedule for a single item or all items.
- Compare prospective resource requirements to the capacity that is available in critical work centers.
- Forecast consumption across multiple time periods.
- Set up and generate multi-level master schedules.
- Process work orders with a batch quantity that corresponds to a batch bill of material and use these orders for Material Requirements Planning (MRP) processing.
- Set up and use process planning by defining stocking types for the process, defining co-products and by-products, and generate Master Production Scheduling (MPS) for the process.
- Use repetitive manufacturing for highly repetitive production that relies on a production rate.
- Set up and maintain multi-facility plans to define facility relationships at any level of detail for an entire facility, a product group, master planning family, or an individual item number.
- Set up information for each of the suppliers and for the items that you are planning to purchase to generate ad-hoc schedules interactively or generate them by running the Supplier Schedule Generation program.

PeopleSoft Requirements Planning Integrations

The PeopleSoft Requirements Planning system integrates with these PeopleSoft EnterpriseOne Systems:

- Inventory Management
- Base Configurator
- Forecast Management
- Shop Floor Management
- Product Costing
- Manufacturing Accounting
- Sales Order Management
- Procurement
- Engineer to Order

The PeopleSoft Requirements Planning system works with other PeopleSoft EnterpriseOne systems. We discuss integrations considerations in the implementation chapters in this PeopleBook. Supplemental information about third-party integrations is located on the PeopleSoft Customer Connection website.

Inventory Management

Inventory Management supplies the basic information about each item (or ingredient), such as part number, description, unit of measure, stocking type, and location.

Base Configurator

Base Configurator supplies information for assemble-to-order and make-to-order items.

Forecast Management

Forecast Management generates sales projections that are used to develop the master production schedule.

Shop Floor Management

Shop Floor Management uses bills of material and routings to schedule work activity within the plant.

Product Costing

Product Costing uses bill of material, routing, and work center information to calculate the standard cost of an item.

Manufacturing Accounting

Manufacturing Accounting uses routing and work center information to calculate costs for labor, overhead, and material for each primary unit of the parent.

Sales Order Management

Sales Order Management uses bills of material for kit processing, and is a source of demand for purchased or manufactured items.

Procurement

Procurement uses expected deliver dates and recommends replenishment actions.

Engineer to Order

Engineer to Order supplies information for engineer-to-order and project specific items.

PeopleSoft Requirements Planning Implementation

This section provides an overview of the steps that are required to implement the PeopleSoft Requirements Planning system.

In the planning phase of the implementation, take advantage of all PeopleSoft sources of information, including the installation guides and troubleshooting information. A complete list of these resources appears in the preface in *About These PeopleBooks*, with information about where to find the most current version of each.

Global Implementation Steps

Before you can implement Shop Floor Management, you must complete several global implementation steps. Global implementation steps are completed by users of many different systems, and are not specific to Shop Floor Management. Depending on the features and functionality that the organization uses, you might find that it is not necessary to complete all of these steps. This table lists the suggested global implementation steps for all PeopleSoft EnterpriseOne manufacturing products:

Step	Reference
1. Set up global UDC tables.	<i>PeopleSoft EnterpriseOne Tools 8.94: Foundation PeopleBook</i>
2. Set up fiscal date patterns.	<i>PeopleSoft EnterpriseOne Financial Management Solutions Application Fundamentals 8.11 PeopleBook</i> , "Setting Up an Organization," Setting Up Fiscal Date Patterns
3. Set up companies.	<i>PeopleSoft EnterpriseOne Financial Management Solutions Application Fundamentals 8.11 PeopleBook</i> , "Setting Up an Organization," Setting Up Companies
4. Set up business units.	<i>PeopleSoft EnterpriseOne Financial Management Solutions Application Fundamentals 8.11 PeopleBook</i> , "Setting Up an Organization," Setting Up Business Units
5. Set up next numbers.	<i>PeopleSoft EnterpriseOne Financial Management Solutions Application Fundamentals 8.11 PeopleBook</i> , "Setting Up System Next Numbers"
6. Set up accounts, and the chart of accounts. (Optional)	<i>PeopleSoft EnterpriseOne Financial Management Solutions Application Fundamentals 8.11 PeopleBook</i> , "Setting Up Accounts"
7. Set up the General Accounting Constants.	<i>PeopleSoft EnterpriseOne General Accounting 8.11 PeopleBook</i> , "Setting Up the General Accounting System," Setting Up General Accounting Constants

Step	Reference
8. Set up multicurrency processing, including currency codes and exchange rates.	<i>PeopleSoft EnterpriseOne Multicurrency Processing 8.11 PeopleBook</i> , “Setting Up Your System for Multicurrency Processing”
9. Set up ledger type rules. (Optional)	<i>PeopleSoft EnterpriseOne Financial Management Solutions Application Fundamentals 8.11 PeopleBook</i> , “Setting Up Ledger Type Rules for General Accounting”
10. Set up address book records.	<i>PeopleSoft EnterpriseOne Address Book 8.11 PeopleBook</i> , “Entering Address Book Records”
11. Set up default location and printers	<i>PeopleSoft EnterpriseOne Tools 8.94: Foundation PeopleBook</i>
12. Set up branch/plant constants.	<i>PeopleSoft EnterpriseOne Inventory Management 8.11 PeopleBook</i> , “Setting Up the Inventory Management System,” Defining Branch/Plant Constants
13. Set up Manufacturing/Distribution AAIs.	<i>PeopleSoft EnterpriseOne Inventory Management 8.11 PeopleBook</i> , “Setting Up the Inventory Management System,” Setting Up AAIs in Distribution Systems
14. Set up document types.	<i>PeopleSoft EnterpriseOne Inventory Management 8.11 PeopleBook</i> , “Setting Up the Inventory Management System,” Setting Up Document Type Information
15. Set up shop floor calendars.	<i>PeopleSoft EnterpriseOne Shop Floor Management 8.11 PeopleBook</i> , “Setting Up Shop Floor Management,” Understanding Shop Floor Calendar Setup
16. Set up manufacturing constants.	<i>PeopleSoft EnterpriseOne Shop Floor Management 8.11 PeopleBook</i> , “Setting Up Shop Floor Management,” Setting Up Manufacturing Constants

PeopleSoft Requirements Planning Implementation Steps

This table lists the implementation steps for the PeopleSoft Requirements Planning system.

Step	Reference
1. Set up supply and demand inclusion rules	Chapter 4, “Setting Up PeopleSoft Requirements Planning,” Setting Up Supply and Demand Inclusion Rules, page 26
2. Set up Inventory Management for Requirements Planning	Chapter 4, “Setting Up PeopleSoft Requirements Planning,” Setting Up Inventory Management for Requirements Planning, page 28
3. Set up quantity type subsets	Chapter 4, “Setting Up PeopleSoft Requirements Planning,” Setting Up Quantity Type Subsets, page 30
4. Set up capacity planning	Chapter 5, “Setting Up Capacity Planning,” Determining Available Capacity, page 43 Chapter 5, “Setting Up Capacity Planning,” Generating Resource Profiles, page 48

CHAPTER 2

PeopleSoft EnterpriseOne Requirements Planning

This chapter provides an overview of PeopleSoft EnterpriseOne Requirements Planning and discusses:

- PeopleSoft EnterpriseOne Requirements Planning features.
- PeopleSoft EnterpriseOne Requirements Planning tables.

PeopleSoft EnterpriseOne Requirements Planning Overview

PeopleSoft Requirements Planning is part of the Supply Chain Management product line. Supply Chain Management (SCM) enables you to coordinate inventory, raw materials, and labor resources to deliver products according to a managed schedule. This closed-loop manufacturing system helps you manage data and optimize resources across the entire manufacturing and distribution logistics environment. SCM formalizes the activities of company and operations planning.

PeopleSoft EnterpriseOne Requirements Planning Features

PeopleSoft EnterpriseOne Requirements Planning consists of these feature sets:

Resource and Capacity Planning

Resource and Capacity Planning enables you to prepare a feasible production schedule that reflects demand forecasts and production capability. Resource and Capacity Planning consists of:

Resource Requirements Planning (RRP)

Uses a detail or summary forecast to estimate the time and resources that are needed to make a product family.

Rough Cut Capacity Planning (RCCP)

Compares the master production scheduling resource requirements to the capacity that is available in critical work centers.

You use RCCP to determine if you should revise the master schedule to create feasible workloads or improve the use of limited resources.

Capacity Requirements Planning (CRP)

Compares the material requirements plans to the capacity available in all work centers.

You use CRP to determine if you should revise the material requirements plan to create feasible workloads or improve the use of limited resources.

Material Planning Operations

Material Planning Operations provides a short-range plan to cover material requirements that are needed to make a product. Material Planning Operations analyzes demand from all the operations, including:

- Central and satellite distribution centers and warehouses.
- Items manufactured in both discrete and process environments.
- Engineer-to-order contracted items.
- Maintenance, repair, and operational items for plant and equipment maintenance.
- Supplier-managed inventory.

Material Planning Operations consists of these feature sets:

Distribution Requirements Planning (DRP)

Plans and controls the distribution of finished goods, based upon demand.

Master Production Scheduling (MPS)

Creates a schedule of items and quantities that a company expects to manufacture.

Material Requirements Planning (MRP)

Uses the master production schedule, open orders, bills of material, and inventory records to calculate time-phased net requirements for every item; and creates a plan for covering material requirements.

Multi-Facility Planning

Provides centralized control of distribution inventories and creates a coordinated replenishment plan.

Project Requirements Planning (PRP)

Uses project work breakdown structures and related bills of materials to create replenishment plans for project items.

Project Requirements Planning (PRP)

Project Requirements Planning (PRP) is an option within the MRP/MPS Requirements Planning program (R3482) that you use to generate replenishment schedules for production orders and components for an end item that are used in a project.

PRP recognizes the shippable items from the project as the supply of the end item and uses this supply to drive the demand for its components. Thus, the project supplies its own demand.

The dependent demand is generated by the bill of material (BOM) structure or by the work order parts list that is associated with the end items. Inventory that is acquired either by purchase order receipts or work order completions for these project-specific items should be used only for meeting the project's demand.

Project demand and supply is regarded as *stand-alone* or *independent* so that any additional demand or supply from forecasts, sales orders, work orders, or purchase orders on that end item does not interfere with the requirement from the project.

Supplier Scheduling Systems

A dependency on goods and services from other organizations has increased the need to establish planning and information methods between the supplying links of a supply chain.

Through supplier scheduling, planners can provide suppliers with consistent shipping information and demand profiles to support production and delivery. Planners negotiate order contracts between consumer and supplier through scheduling tools. Order contracts are often defined as blanket orders with established quantities for a demand company. When a company forms a supply chain with a scheduling system, a supplier has accurate data to project plans for demand forecasts, ordering, production, and delivery. A consuming company benefits because its deliveries from a supplier are dependable. Enterprises can make point-of-use deliveries from the exact location where the supplier delivers the goods to the production location that consumes products. Instead of supplying inventory to stores or warehouses for dissemination, enterprises can deliver from the point of use.

Partnership contracts between companies reduce inventory-carrying costs, production lead-times, and time-to-market for products. An enterprise uses supplier-scheduling methodologies to share planning information across business boundaries. Scheduling enables contributors to a product line to develop schedules that originate from known information. When schedules change, especially in dynamic industries such as electronics and automotive, the demand and supply partners establish communication links to accommodate changes as quickly as possible.

PeopleSoft EnterpriseOne Requirements Planning Tables

These tables are used throughout the PeopleSoft Requirements Planning system:

Table	Description
Item Master (F4101)	Contains basic information about each item defined in inventory, such as: • Item numbers and descriptions • Category codes • Units of measure
Item Branch File (F4102)	Contains warehouse or plant-level information, such as: • Costs • Quantities • Location • Branch level category codes • Lead times • Planning fences • Order policy codes

Table	Description
Bill of Material Master File (F3002)	Contains information at the business unit level about bills of material such as: • Costs and quantities of components • Features and options • Levels of detail for each bill
Capacity Message File (F3311)	Contains the action messages that are generated by the RRP, RCCP, and CRP programs.
Forecast File (F3460)	Contains the forecast data that MPS uses for calculations and that RRP validate.
Routing Master File (F3003)	Stores routing information, including operation sequence, work center, run, setup, and machine time.
Work Center Resource Units (F3007)	Contains the available capacity for each work center by day, month, and year.
Work Center Master File (F30006)	Contains detail data about all defined work centers.
Capacity Resource Profile (F3303)	Contains all of the resource profiles that are used in Resource Requirements Planning.
Branch Relationships Master File (F3403)	Contains the supply and demand relationship among the branches.
MPS/MRP/DRP Message File (F3411)	Contains the action messages that are generated by MPS, MRP, or DRP.
MPS/MRP/DRP Lower Level Requirements File (F3412)	Contains the source of gross requirements that are posted to items from parent items.
MPS/MRP/DRP Summary File (F3413)	Contains the time series data for forms and reports.
Supplier Schedule Master File (F4321)	Contains most of the data that controls scheduling arrangements with the supplier. This table also contains information required for creating and maintaining the schedule, including: • Ship lead time • Schedule days • Ship pattern • Shipment quantity • Delivery location The system uses information from the Supplier Schedule Master File table for each line item on a blanket order that you use in the supplier scheduling process.
Supplier Schedule Master File (F43211)	Contains the data that identifies predetermined split percentages between suppliers, by item.

CHAPTER 3

PeopleSoft Requirements Planning Concepts

You must have an understanding of planning concepts before setting up and using the PeopleSoft Requirements Planning system.

Single-Facility versus Multi-Facility Planning

Single-facility planning encompasses the generation of a distribution or production plan for one facility. All supply and demand data must be within a single branch plant. If an item is available in other branch plants, it is not considered during single-facility planning.

In contrast, multi-facility planning is set up to consider supply and demand for the same item across multiple facilities. The objective of multi-facility planning is to coordinate the distribution or production plan of several plants that are part of an integrated company. This type of planning is used to provide a number of business solutions, including:

- Demand consolidation to support centralized procurement for multiple branch plants.
- Demand fulfillment from an alternate branch plant to minimize inventory.
- Demand integration where one plant produces semi-finished items that are shipped to and assembled into end item products at another plant.

By defining supply and demand relationships between branch plants, the system transfers items among the plants using Sales Order Management and Procurement.

Single-Level versus Multi-Level Planning

Single-level planning is the balance of supply and demand of an end item at the sales and operations planning level. The planning system does not explode down to the lower level components in the bill of material.

Both manufacturing and distribution companies use single-level planning, depending on their process flows. Single-level planning is performed for Master Production Scheduling (MPS) and Distribution Requirements Planning (DRP) to plan end items or families of end items. Single-level planning at the DRP and MPS levels enables flexibility to manage inventory by specific time buckets, which can be monthly, weekly, or daily.

DRP focuses on processing end items through the planning system. DRP only develops messages for the purchase of end items; no parent/component relationships exist.

For example, a distribution company that sells material building supplies forecasts faucets as a demand, and purchases what is needed to meet the forecast. The company then sells the faucets to home builders.

MPS uses single-level planning to focus on the end item. It is run prior to Material Requirements Planning (MRP) to stabilize and firm up the schedule. Thus, single-level MPS does not explode down to lower level components in the bill of material. MPS can develop both purchase order and work order messages.

For example, a manufacturer of building materials might buy bathtubs and then sell these end items to distributors. The manufacturer uses forecast as demand and purchases bathtubs to meet that demand. They then sell the bathtubs to a distributor. For end items that the manufacturer builds itself, such as faucets, the company would run single-level MPS to produce work order messages for the faucets. By running single-level MPS, the manufacturer has the flexibility to change quantities and dates of the end items before sending the demand to lower level components such as o-rings, washers, handles, and bolts.

Pegging records do not exist at the highest level of the bill of material structure because that is where the demand originates.

MRP is multilevel planning. The planning system explodes parent demand from end items down to lower level components in a bill of material. MRP creates messages for both purchased and lower level manufactured work orders.

Pegging can be done to determine the parent source of demand.

Master Production Scheduling and Material Requirements Planning

An MPS is a statement of what the company expects to produce, based on the tactical plan and budget constraints. A master-scheduled item is critical in its impact on lower-level components or resources, such as skilled labor, key machines, or revenues. Single-level scheduling implies master scheduling at the item level of an end deliverable. Multilevel master schedules explode planned orders down to component items.

The master scheduling process consists of:

- Determining gross demand (forecast, customer orders, and interplant demands).
- Subtracting what you have (inventory, purchase orders, and work orders).
- Calculating net requirements and when you need them.

You can generate a master schedule for all items or for a net change generation, which includes only items that have been affected by transactions since the last generation. After you generate the master schedule, you can review and respond to messages.

MRP uses information from the bill of material and inventory records to calculate the time-phased net material requirements for every component item and subassembly. MRP suggests a replenishment plan to support the production of the quantities that are specified in the MPS.

A single-facility requirements plan critically affects lower-level components or resources, such as skilled labor or revenues. Single-facility implies MRP at the component level.

The MRP process consists of:

- Determining gross demand (forecast, customer orders, work orders, and interplant demands).
- Subtracting what you have (inventory, purchase orders, and work orders).
- Calculating net requirements and when you need them.

You can process a material requirements plan in one of two ways:

- Freeze the MPS and generate MRP.
- Validate the MPS, and then generate a combination of MPS and MRP.

When you process a material requirements plan, the system summarizes gross material requirements for each assembly, component, and part number for raw material. The requirements plan supports the MPS for each time period in the planning horizon.

You can generate a material requirements plan for all items or for a net change generation, which includes only the items that have changed since the last generation. After you generate MRP output, you can review and respond to messages.

The system uses these inputs to MRP:

- Demand
- Forecast
- Sales Orders
- Planned and firm work orders
- Supply
- Firm work orders
- Rate schedules
- Purchase orders
- Inventory
- In-receipt routing.
- Product data
- Item Branch File (F4102)
- Bill of Material Master File (F3002)

The system generates outputs from MRP:

- Action and warning messages.
- Time series with calculated quantities for:
 - Ending Available (EA).
 - Available to Promise (ATP).
 - Cumulative Available to Promise (CATP).
 - Planned orders.

MPS and Manufactured Items

You use MPS to generate the master schedule for manufactured items. PeopleSoft EnterpriseOne systems plan replenishment for both purchased items and manufactured items in the same generation program. Processing options control how the system runs the generation.

DRP and Purchased Items

For distribution businesses, DRP provides replenishment plans for items that are purchased and resold in a distribution environment.

What Are the Differences between MRP and MPS?

MPS generally has independent demand, while MRP has dependent demand. Independent demand is demand for an item that is unrelated to the demand for other items, such as demand for finished goods. Dependent demand is demand that is directly related to or derived from the bill of material structure for other items or end products. MRP might also include forecast and sales orders if items are sold as service (spare) parts. The majority of demand, however, is demand from parent orders. The demands on MRP include:

- Firm and planned work orders for a parent item.
- Sales orders and forecast for a service part.
- Interplant demands.

You use the MRP to generate material plans for lower level components. Processing options control how the system runs the generation.

Requirements Planning Output

The primary outputs of requirements planning include messages, time series, and planned orders. You need to know and understand the elements that affect the process and look for the outputs, including planning horizons, quantity types, time fences, and planning message definitions. These elements are common for all types of requirements planning.

Planning Horizons

APICS, the Educational Society for Resource Management, defines a planning horizon as the amount of time that a plan extends into the future. Planning horizons must be long enough to cover the cumulative lead time for all low-level components. For higher level planning, the horizon must be long enough to enable increased capacity adjustments, if needed. Changes that extend far into the planning horizon can be managed with little disruption to the planning schedule. Changes closer to the current date or delivery due date might have significant schedule and cost impacts to the existing plan.

Cumulative lead time should include visibility to all aspects of the plan, including:

- Engineering/development time
- Purchasing lead time
- Manufacturing lead time
- Final assembly lead time
- Delivery time to customer

The example illustrates a planning horizon:

- Order raw materials - 20 days
- Produce component items - 20 days
- Subassembly production - 20 days
- Final assembly - 20 days

The planning horizon must be set to include the entire lead time from raw material through final assembly. Therefore, this planning horizon should be no less than 80 days in length.

Quantity Types (34/QT)

The system uses the Quantity Type user-defined code (UDC) 34/QT. Quantity types are predefined codes that define the display data on the time series screens and reports that use the MPS/MRP/DRP Summary File table (F3413). The quantity types are used by the MRP/MPS Requirements Planning program (R3482) and Master Planning Schedule - Multiple Plant program (R3483) to calculate supply and demand.

Quantity types are alpha codes that represent various types of supply or demand on the time series. Any code preceded by a (+) symbol designates supply. Any code preceded by a (-) symbol designates demand or a reduction of supply. Some quantity types are designated as unadjusted. Unadjusted quantity types display the original quantity without planning actions. All other quantity types are displayed as if all planning actions have been processed.

UDC 34/QT codes are hard coded; however, the descriptions explaining the codes are not hard coded. If changes are made to the descriptions, it is strongly recommended that these changes be documented by taking the Row menu to Attachments. Creating an attachment to the code with a changed description provides an audit trail on what was changed and why the change was implemented.

Important! It is strongly recommended that you do not change the 34/QT UDC because the MRP/MPS Requirements Planning and Master Planning Schedule - Multiple Plant programs build calculations for supply and demand based on these quantity types.

Time Fences and the Time Series

Planning horizons are divided into time frames that establish operation policies or guidelines for prioritizing activities

The time fences define how priority decisions will be made with respect to scheduling supply to meet demand. Time fences denote where defined planning rules will be applied in balancing the supply to meet existing demand. Time fences apply to sources of demand that will be used to plan calculations. Time fence rules stipulate how forecast, customer demand, or a mixture of each will be used during the netting calculations when establishing the schedule.

Time fences are points in time when you can make changes to either policy or operating procedures. PeopleSoft EnterpriseOne software includes three fences:

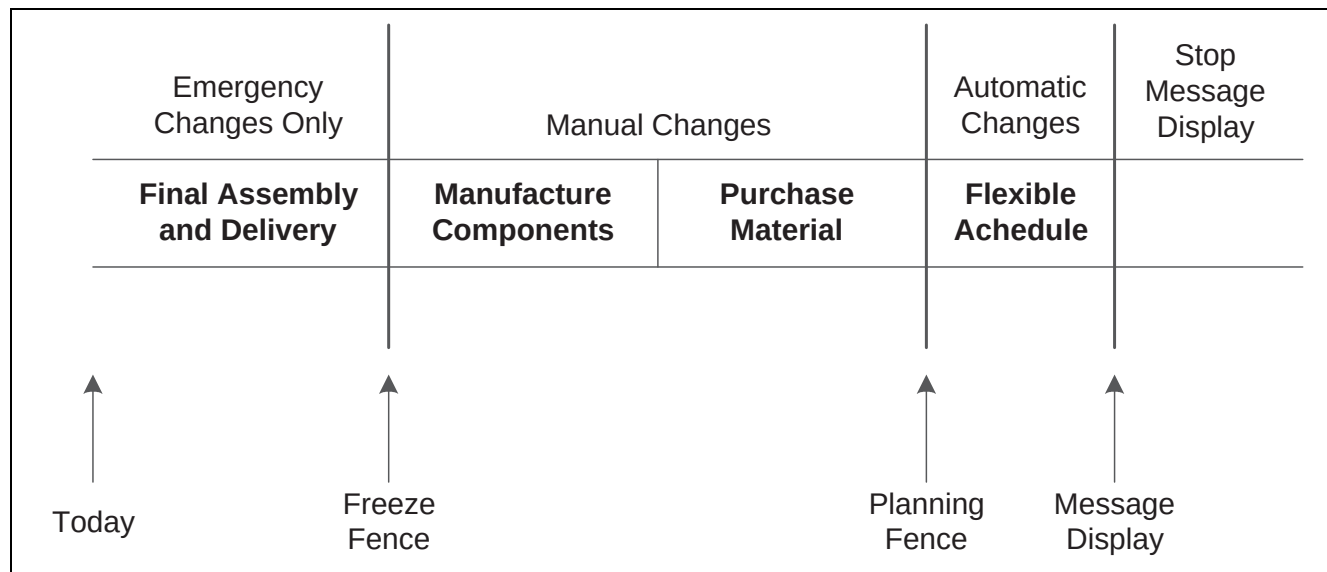
- Freeze
- Planning
- Message Display

Fence Type	Function
Freeze Fence (F)	The number of days from the generation start date within which the system should not create or re-plan order messages. For example, if the generation start date is January 3, 2005, and the freeze time fence is 3 days, the planning system does not display messages with dates prior to or equal to January 6, 2005. Imbalances of supply and demand within the freeze fence are planned outside the freeze fence.

Fence Type	Function
Planning Fence (P)	The number of days that the system uses with the time fence rule to determine how demand is used. Enter the number of days after the generation start date when the time fence rule changes from the first rule to the second rule. For example, if the time fence rule is S (customer demand before the time fence, forecast after the time fence), the generation start date is January 3, 2005, and the planning time fence is 3 days, then the system plans according to customer demand through January 6, 2005. Beginning on January 7, 2005, the system plans according to the forecast.
Message Display Fence (D)	The number of days after the generation start date within which the system should display messages. For example, if the generation start date is January 1, 2005, the shop calendar is seven days a week, and the message fence is 30 days, the system displays messages with dates less than or equal to January 31, 2005. The system does not display messages with start dates of February 1, 2005 or later. However, the planning horizon for orders continues past this date and is reflected in available to promise totals.

Time fences are a critical input to the master schedule. The time series is the primary output of the master schedule.

The graphic shows an example of a time series:



Time series

In the Item Master program (P4101), you specify on the Manufacturing Data tab of the Additional System Information form the number of days after the generation start date to be included in each time fence period. For time fences:

- The system does not count the generation start date; that is, the day after the generation start date is day 1.
- For manufactured items, the system counts working days as defined in the Shop Floor Calendar.
- For purchased items, the system counts calendar days.

Each of the fences is displayed on the time series in their respective bucket. Along F, P, D, you also see Level Lead time (L), Manufacturing Lead time (M), and Cumulative Lead time (C).

You can also generate a master schedule for items by using forecast consumption planning rule H. Forecast consumption occurs when forecasted demand is reduced by actual sales orders received or shipped, up to the forecasted quantity. By consuming the forecast, you can revise the production schedules to reflect the most up-to-date information.

MRP Period Calculations Using Planning Fence Rules

MRP supply and demand netting calculations are generated on a period-by-period basis for each MRP defined time bucket. The requirement generation uses the planning fence rule to determine what sources of demand to consider for a given duration.

The example is based on a G planning fence rule of 20 days. The *greater than* rule will be applied on a period-by-period basis within the planning fence duration.

Sources of Demand	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Forecast	100	100	100	100	100	100
Sales Orders	300					200
PLO	300	100	100	100	100	100

This MRP period-by-period comparison would be more pronounced if the MRP time buckets were in days and the rule duration remained at 20 days.

Note. Planning time fence duration should approximate the replenishment lead time of the item.

Time Fence Rules for DRP, MRP, and MPS (34/TF)

Time fences are points of time at which you can make changes to either policy or operating procedures. The system uses 34/TF as the UDC for time fence rules.

For example, you can use a time fence rule for planning that calculates an ending available amount which is based on the greater of forecast or customer demand. For rules C and G, this situation means that the forecast is reduced by the amount of the customer demand on that same time bucket. The system displays all adjusted and unadjusted values. In the table, this applies to rules C, G, and H.

PeopleSoft EnterpriseOne software uses the time fence rules for planning:

Rule	Description
Rule C	Description 1 Customer demand Description 2 Whichever is greater: forecast or customer demand Rule C is commonly used for make-to-order, assemble-to-order, and engineer-to-order items.

Rule	Description
Rule F	Description 1 Forecast Description 2 Forecast plus customer demand Rule F is commonly used for make-to-stock items where forecast in Description 2 is insufficient for total demand or business policy supports building of inventory due to volatile demand.
Rule G	Description 1 Whichever is greater: forecast or customer demand Description 2 Forecast Rule G is the default. Rule G is commonly used for make-to-stock items with accurate forecast. Description 1 in Rule G provides a hedge to prevent lost sales or backorders.
Rule H	Description 1 Whichever is greater: forecast or customer demand When you use planning fence Rule H, It is recommended that you set the Planning Fence field on the Manufacturing Data tab on the Additional System Information form in the Item Master program to 999. Rule H is commonly used for make-to-stock items and is used for forecast consumption. Forecast consumption enables you to plan for the entire planning horizon.
Rule S	Description 1 Customer Demand Description 2 Forecast Rule S is commonly used for make-to-order, assemble-to-order, and engineer-to-order items. Similar to Rule C, Rule S does not take customer demand into consideration for Description 2.

Rule	Description
Rule 1	Description 1 Zero Description 2 Forecast Rule 1 is used when you have constraints on the shop floor that dictate the workload. Neither forecast nor customer is considered in Description 1.
Rule 3	Description 1 Zero Description 2 Forecast plus customer demand Rule 3 is similar to Rule 1; but Rule 3 is used for schedule constraints, and forecast is typically lower than total demand.

Note. With time fence rules C, G and H, you can use the forecast consumption by customer functionality if you want to calculate net demand for an individual customer.

Time Series Calculations

The time series represents the proposed master schedule. Review the time series to decide whether to accept or override the planning that the system suggests.

PeopleSoft Requirements Planning provides three different time series calculations:

- Ending available
- Available to promise
- Cumulative available to promise

Ending Available Calculation

EA is the amount of product that is available at the end of a time bucket after the system calculates the effect of all supplies and all demands for the time bucket. The system uses the planning time fence rule and the calculation to calculate the ending available amount:

- Add within the time bucket:
- *Beginning Available (+BA).*
For the first time period, $+BA = \text{quantity on hand} - \text{safety stock}$.

For remaining time periods, $+BA = \text{ending available from the previous time period} (=EA)$.

- Subtract according to the planning time fence rule:
- Forecast (-FCST).
- Customer demand (sales orders and interplant demand).
- The remainder is the EA.

The table displays how the system calculates the amount of product that is available at the end of a time period. Assume that the order policy code = lot for lot, safety stock = 20, time fence rule for planning = C, and lead time = 1. The planning fence is between periods four and five.

For example:

On hand (80) - safety (20) = Period 1 + BA (60)

Period 1 + BA (60) - 50(20) = EA (40)

Product	Period	Period	Period	Period	Period	Period	Period	Period
On Hand = 80	1	2	3	4	5	6	7	8
+BA	60	40	25	25	0	0	0	0
-FCST	20	20	20	20	20	20	20	20
-SO	20	15		40			45	
=EA	40	25	25	0	0	0	0	0
+DRP				15	20	20	45	20
(order start)			15	20	20	45	20	

Available to Promise Calculation

ATP is the uncommitted portion of a company's inventory or planned acquisitions. You use this amount to accurately promise customer orders. As long as manufacturing produces according to the MPS and sales makes commitments according to the ATP information, this method increases customer service and reduces inventory carrying cost.

Available to promise uses actual customer orders to identify inventory that can be promised to a customer. The time fence rule for planning has no effect on ATP. Forecast is never included in ATP calculations.

The system calculates the ATP quantity as follows:

- *First period ATP = on-hand balance - safety stock + work orders + purchase orders + planned orders - sales orders - work order parts list demand - interplant demand - unconsumed lot quantities that are expired.*
- *After the first period, ATP = work orders + purchase orders + planned orders - sales orders - work order parts list demand - interplant demand - unconsumed lot quantities that are expired.*

The system does not display negative ATP for the next periods. However, the system reduces the CATP by the negative amount.

Cumulative Available to Promise Calculation

CATP is a running total of the ATP.

For new products or seasonal products, building inventory might be part of the management strategy. In these cases, sales and marketing might not be expected to sell within the replenishment buckets. The bulk of sales might not be in the near future.

The system calculates CATP as follows:

- *First period CATP = beginning available + replenishment - sum of customer orders and parent demand before the next replenishment.*
- *After the first period, CATP = CATP from last period + replenishment - sum of customer orders and parent demand before the next replenishment.*

CATP does not assume complete depletion. Rather, the system continues to add inventory.

The table displays how the system calculates CATP. Assume that the order policy code = fixed 60, safety stock = 0, time fence rule for planning = C, and lead time = 1. The planning fence is between periods four and five.

CATP	Period	Period	Period	Period	Period	Period	Period	Period
	1	2	3	4	5	6	7	8
+BA	80	50	25	55	45	25	50	30
-FCST	20	20	20	20	20	20	20	20
-SO	30	25	30	10		35		
=EA	50	25	55	45	25	50	30	10
+DRP			60			60		
ATP	25		20			25		
CATP	25	25	45	45	45	70	70	70

See Also

Chapter 10, “Forecast Consumption,” Understanding Forecast Consumption, page 129

Planning Messages

During planning, the system generates recommendations for the user called Action Messages.

The action messages for DRP, MPS, and MRP are defined in UDC table Message Type 34/MT. The character codes are hard-coded. Do not change the character codes in this UDC table.

When you process action messages, the system is programmed to complete specific events.

After you generate planning schedule output, the system creates action messages that:

- Alert the planner of possible adverse conditions.
- Display action recommendations that the planner can process.

Message Types for DRP, MPS, MRP, and RCCP (34/MT)

The system uses 34/MT as the UDC for message types. All the messages are predefined for these message types, which the system displays when you generate DRP, MPS, and so on. Because the character code is hard coded, you can change the description, but not the function, of the message type.

The system displays messages by type. You can identify which items require attention, based on the action message types. The table displays what action the system takes when work orders or purchase orders are processed.

Type	Description	Planner Remarks	Work Order	Purchase Order
A	Warning message.	WO missing part list.	Displays work order. You can copy the bill of material to create a parts list.	N/A
A	Warning message.	BOM does not exist for item.	Error message; record invalid.	N/A
A	Warning message.	Cancel parts list.	Error message; record invalid. You must clear or delete the message.	N/A
A	Warning message.	Defer parts list.	Error message; record invalid. You must clear or delete the message.	N/A
A	Warning message.	Lead time is zero.	Clears message. Displays work order.	N/A
B	Order & Expedite.	Blank.	Clears message and creates a firm order message. Creates a work order.	Clears message and creates a firm order message. Creates purchase order.
C	Cancel.	Blank.	Clears message. The system deletes the work order parts list if no outstanding issues exist. Changes status to 99.	Clears closed message on purchase order line item. Changes status to 999.
D	Defer.	Blank.	Clears message and changes work order item required date.	Clears message and changes purchase order line item required date.
E	Expedite.	Blank.	Clears message and changes work order start date.	Clears message and changes purchase order line item start date.
F	Frozen order.	Frozen order.	No action required. The message remains until deleted or cleared.	No action required. The message remains until deleted or cleared.

Type	Description	Planner Remarks	Work Order	Purchase Order
G	Increase order quantity.	Blank.	Displays work order with updated quantity. Click OK to accept the change. The system recalculates and changes the number of required components.	Displays purchase order with updated quantity. Click OK to accept the change.
H	Decrease rate quantity.	Blank.	Displays the rate schedule. You must manually change the rate quantity for the suggested date.	N/A
I	Increase rate quantity.	Blank.	Displays the rate schedule. You must manually change the rate quantity for the suggested date.	N/A
L	Decrease order quantity.	Blank.	Displays work order with updated quantity. Click OK to accept the change. The system recalculates and changes the number of required components.	Displays purchase order with updated quantity. Click OK to accept the change.
M	Manual reminder.	User entered text.	No action required. The message remains until deleted or cleared.	No action required. The message remains until deleted or cleared.
N	Create rate.	Blank.	Clears message and creates the rate schedule. Displays rate schedule revisions.	N/A
O	Order.	Blank.	Clears message and creates a firm order message. Creates work order.	Clears message and creates a firm order message. Creates purchase order.
P	Firm order.	Firm order.	No action required. The message remains until deleted or cleared.	No action required. The message remains until deleted or cleared.

Type	Description	Planner Remarks	Work Order	Purchase Order
S	FPO adjustment suggestion.	Increase Parts List. Decrease Parts List. Expedite Parts List. Defer Part List.	No action required. The message remains until deleted or cleared. Action is taken on the parent item's message.	No action required. The message remains until deleted or cleared. Action is taken on the parent item's message.
T	Past due order.	Blank.	No action required. The message remains until deleted or cleared.	No action required. The message remains until deleted or cleared.

Parallel Processing

Parallel processing is a technique that distributes work that an application performs across multiple processors within a CPU. The parallel processing method achieves significant performance gains that are limited only by the number of processors that are available on the server. Thus, parallel processing reduces the time that a system requires to complete the work. For example, if you have excessive data volume, such as large bills of material, parallel processing can reduce processing time. These instances determine if the system would benefit from parallel processing:

- Server with multiple processors.
- Large volume of data at any level of MRP.

A method of parallel processing is to create an application that divides data into separate, independent paths. The paths process data simultaneously on multiple processors. The benefit of this method is that the application automatically divides data among processors and also eliminates data administration. The MRP/MPS Requirements Planning program and the Master Planning Schedule - Multiple Plant program use this method of parallel processing.

When you run the parallel processing versions of the MRP/MPS Requirements Planning and Master Planning Schedule - Multiple Plant programs, you plan items concurrently within the same low-level code, since the items do not depend on each other. The system processes items with a low-level code that equals 1. The system processes all of the items at the current level before it can process any items at the next level: current level + 1. The system repeats this process until it has processed all of the items. Also, if a server has multiple processors, you can plan multiple items concurrently with the same low-level codes.

Parallel processing uses the software's subsystem capabilities to run multiple copies of a batch program. The system provides a unique subsystem version of a Universal Batch Engine (UBE) that permits you to specify the number of available processors on the server. When the system runs the batch program, preprocessing fills the subsystem table and begins the subsystem jobs. The jobs run the same version of the application and access the same processing option values. Each record in the subsystem table contains data that the system passes to a report. Each subsystem job processes records from the same table, one at a time. After the system processes all of the records, the system terminates the subsystem jobs.

The system has several applications that parallel processing supports. To use the parallel processing versions, you must perform these tasks:

- Indicate the maximum number of the same subsystem jobs that the system can process at the same time.
Add or modify the value, `UBESubsystemLimit=N`, in the UBE section of the `jde.ini` file.

N represents the maximum number of similar subsystem jobs.

- Set up multi-threaded job queues.

Note. Technical Support must complete standard tasks in system setup before you can execute the parallel processing method.

The MRP/MPS Requirements Planning and Master Planning Schedule - Multiple Plant programs have a processing option, Number of Subsystem Jobs, on the Parallel tab that indicates how many concurrent jobs can process the MRP data. You must use subsystem parallel versions that are specifically designed for parallel processing.

Important! It is recommended that you do not run more than one version of MRP at a time.

See Also

PeopleSoft EnterpriseOne Tools 8.94: System Administration PeopleBook

CHAPTER 4

Setting Up PeopleSoft Requirements Planning

This chapter provides an overview of setting up PeopleSoft Requirements Planning and discusses how to:

- Set up supply and demand inclusion rules.
- Set up inventory management for requirements planning.
- Set up quantity type subsets.
- Set up multi-facility planning.
- Set up forecast consumption.

Understanding the Setup Requirements for Requirements Planning

You must complete setup tasks to define the information that the system uses prior to using material and capacity planning. You set up information in PeopleSoft EnterpriseOne Inventory Management, PeopleSoft EnterpriseOne Product Data Management, PeopleSoft EnterpriseOne Shop Floor Management, PeopleSoft EnterpriseOne Sales Order Management, and PeopleSoft EnterpriseOne Requirements Planning.

Setup includes such tasks as defining UDCs, order policy rules, and supply and demand inclusion rules. PeopleSoft Requirements Planning uses setup information to determine how to select and display data.

To successfully create a single-level plan for Master Production Scheduling (MPS) or Distribution Requirements Planning (DRP) you must verify certain system setups.

You must verify that the Planning Code field in the Item Branch program (P41026) on the Additional System Info form is set to a value of *1*. This setting indicates that the item is planned by MPS and DRP.

Verify that the Generation Type field on the Parameters tab in the MRP/MPS Requirements Planning program (R3482) is set to a value of *1*. The generation types enable you to develop a strategy for the different planning levels for the items. A setting of *1* indicates that the system generates a single-level MPS or DRP plan.

For a single-level DRP run, you must set the Purchase Orders field on the Document Types tab in the MRP/MPS Requirements Planning program with the appropriate document type. This type is generally *OP*.

For a single-level MPS run, you must set both the Purchase Orders and the Work Orders fields on the Document Types tab in the MRP/MPS Requirements Planning program with the appropriate document type. These fields are generally set to *OP* and *WO*, respectively.

You must also set up the supply and demand inclusion rules. The system processes the supply and demand to include document types, line types, and status codes per the setup. DRP creates only purchase order messages while MPS creates both purchase order and work order messages.

Once the supply and demand inclusion rules are set up, you must input the rule version in the Version of Supply/Demand Inclusion Rules field on the Parameters tab in the MRP/MPS Requirements Planning program.

You set up quantity types that are specific to DRP and MPS. Quantity types are predefined codes that define the display of data on the time series in time-phased buckets. You might want to set up the own quantity types since DRP does not need to see codes for work orders while MPS includes codes for work orders. The DRP quantity types are defined in UDC table 34/DR, and the MPS quantity types are defined in UDC table 34/MS.

Setting Up Supply and Demand Inclusion Rules

This section provides an overview of supply and demand inclusion rules and discusses how to:

- Set up the processing options for supply and demand inclusion rules.
- Set up supply and demand inclusion rules.

Understanding Supply and Demand Inclusion Rules

You set up supply and demand inclusion rules to define what Order Type, Line Type, and Line Status combinations should be considered as supply or demand for various planning calculations.

Select each record that includes the order type and line status for which you want the inclusion rules to apply and click Select.

For example, a purchase order for a stock item that has already been received, (Order Type = OP, Line Type = S, Line Status = 999) should not be included as supply because the quantity on the purchase order is already in inventory.

A sales order for a stock item that is waiting for a pick slip to be printed (Order Type = SO, Line Type = S, Line Status = 540) should be included as demand because the items have not been picked from inventory yet.

When you apply inclusion rules to work order documents, line types do not appear. Line types are not applicable to the Work Order system.

Form Used to Set Up Supply and Demand Inclusion Rules

Form Name	Form ID	Navigation	Usage
Work With Supply and Demand Inclusion Rules	W34004A	Material Planning Setup (G3442), Supply/Demand Inclusion Rules	Select the order type and line status for which you want the inclusion rule to apply.

Setting Processing Options for Supply/Demand Inclusion Rules (P45004)

There is one processing option for Supply/Demand Inclusion Rules, which enables you to specify the work order type.

WO Types

Work Order Document Types

1. Enter the WO document types for the inclusion rules. These can be stacked up one after another for multiple document types. If left blank, *WO* will be used.

Setting Up Supply and Demand Inclusion Rules

Access the Work With Supply/Demand Inclusion Rules form.

Supply/Demand Inclusion Rules - Work With Supply/Demand Inclusion Rules

Select Find Delete Close Tools

Rule Version MPS Resource Rules ☐ Selected

Skip to Order Type

Records 1 - 68 Customize Grid

☐	☐	Included	Order Type	Line Type	Line Status	Status Description	Rule Version
☐	☐	0	WO		05	Order Created	MPS
☐	☐	1	WO		10	Order Reviewed	MPS
☐	☐	1	WO		15	Sales Order WO Not Processed	MPS
☐	☐	1	WO		20	Parts List Attached	MPS
☐	☐	0	WO		25	PL and Rtg Reviewed	MPS
☐	☐	1	WO		30	Paperwork Printed	MPS
☐	☐	1	WO		40	Started Labor or Material	MPS
☐	☐	1	WO		41	Firm Planned Order (FPO)	MPS
☐	☐	1	WO		45	Material Issued	MPS
☐	☐	0	WO		80	Completion Reported	MPS
☐	☐	0	WO		81	CRP Display Orders	MPS
☐	☐	0	WO		82	5 Days from Final Acctg	MPS

Work With Supply/Demand Inclusion Rules form

Rule Version

Enter a UDC (40/RV) that identifies an inclusion rule that you want the system to use for this branch/plant. Manufacturing and Warehouse Management use inclusion rules as follows:

- For Manufacturing:
Enables multiple versions of resource rules for running MPS, MRP, or DRP.
- For Warehouse Management:
Enables multiple versions of inclusion rules for running putaway and picking. The system processes only those order lines that match the inclusion rule for a specified branch/plant.

Complete this field to locate the status values for the inclusion code.

Skip to Order Type

Enter a UDC (00/DT) that identifies the type of document. This code also indicates the origin of the transaction. The PeopleSoft EnterpriseOne system has reserved document type codes for vouchers, invoices, receipts, and time sheets, which create automatic offset entries during the post program. (These entries are not self-balancing when you originally enter them.)

These document types are defined in the PeopleSoft EnterpriseOne system and should not be changed:

P: Accounts Payable documents

R: Accounts Receivable documents

T: Payroll documents

I: Inventory documents

O: Purchase Order Processing documents

J: General Accounting/Joint Interest Billing documents

S: Sales Order Processing documents

Setting Up Inventory Management for Requirements Planning

When you set up the item master and branch/plant information, you provide Requirements Planning with the information that it needs to create accurate master schedules, material requirements plans, and distribution requirements plans. Requirements Planning uses the values in these fields:

- Stocking Type
- Planner
- Buyer
- Supplier
- Lot processing information
- Planning family
- Category codes
- Units of measure
- Order policy codes
- Order policy values
- Planning code
- Planning fence rule
- Planning fence
- Freeze fence
- Message display fence
- Time Basis
- Shrink Factor
- Leadtimes

- Reorder quantities

Once the items are defined in the Item Master program (P4101), you can further define the items at the branch/plant level using the Item Branch program.

Use the Item Branch program to specify information for each item. This information is critical to Requirements Planning:

Stocking Type

In the distribution systems, the stocking type for each item typically identifies how you stock the item. However, the planning system uses the second description and the special handling code in the stocking type UDC table definition (41/I) to determine if the item is a manufactured, purchased, processed or project specific item.

Order Policy Rules

You must set up order policy rules to control how the planning system calculates dates and quantities. The order policy rules that you set up are:

Planning Code	Enter a code that the system uses to process the item when running the MRP/MPS Requirements Planning and Master Planning Schedule - Multiple Plant (R3483) programs. Use planning codes 1, 2, or 3 for single level or multilevel master scheduling. Use planning codes 4 and 5 for forecasting with a planning bill.
Order Policy Code	Designate several different rules for reordering inventories, including fixed order quantity, lot for lot, or number of days supplied.
Order Policy Value	Enter a value that the system uses with order policy codes 1, 2, 4 and 5. For example, purchasing a 90-day supply of V-8 engines requires that the order policy code is set to 4 and the order value policy value = 90.

Lead Times

You must set up lead times for items. You must set the lead time for phantom items to zero so that the parent planned orders are recorded directly to the options as a gross requirement without being offset by the lead time. The system multiplies the planned orders by the feature planning percentage before placing the planned orders as component gross requirements.

See Also

See the following topics in the Inventory Management Guide for more information on setting up the item master and branch/plant information:

PeopleSoft EnterpriseOne Inventory Management 8.11 PeopleBook, “Entering Item Inventory Information,” Entering Item Master Information

PeopleSoft EnterpriseOne Inventory Management 8.11 PeopleBook, “Entering Item Inventory Information,” Entering Branch/Plant Information

Setting Up Quantity Type Subsets

It is recommended that you do not change the 34/QT UDC table; however, you can create a subset or a custom quantity type UDC table. Since companies like to make decisions on what quantity types appear on the time series, creating a custom quantity type UDC table gives them flexibility. For example, a distribution warehouse does not want to see the quantity types for work orders.

PeopleSoft EnterpriseOne software provides multiple subsets of the 34/QT—for example, the 34/DR for Distribution Requirement Plan and 34/MS for Master Production Schedule.

For the system to access the 34/QT during DRP, MPS, or Material Requirements Planning (MRP) generation, you must set the UDC Type field on the Parameters tab in the processing options for the MRP/MPS Requirements Planning and Master Planning Schedule - Multiple Plant programs. Setting this processing option with a value of *QT* enables the planning system to use all of the available data and create a time series for every transaction that it is capable of making.

You can use the custom UDC, 34/DR, or 34/MS quantity types by setting the Alternate UDC Type (Optional) field on the Defaults tab in the processing options for the MPS Time Series program (P3413). You can then use the Alternate Quantity Type option on the Work With Time Series form to determine which UDC quantity types that you view in the time series.

Distribution Requirement Plan Quantity Type (34/DR)

The system uses 34/DR as the UDC for distribution requirement plan quantity types. Quantity types are predefined codes that define the display data on the time series screens and reports that use the MPS/MRP/DRP Summary File table (F3413).

PeopleSoft EnterpriseOne provides the 34/DR UDC table as a subset of 34/QT. Upon review of 34/DR, notice that the quantity types have been reduced from the original quantity types in the 34/QT UDC table. Unadjusted quantity types have been removed and +DRP reflects planned replenish order quantities.

The table lists the valid quantity types and descriptions for DRP in UDC table 34/DR:

Quantity Type	Description
+BA	+ Beginning Available
+IR	+ In Receipt Routing
+PO	+ Purchase Orders
-LEXP	- Lot Expired
-FCST	- MPS/Forecast
-SHIP	- Shipped Quantity
-SO	- Sales Order
-ID	-Interplant Demand
=EA	=Ending Available
+DRP	+Distribution Requirements Plan

Quantity Type	Description
ATP	Available to Promise
CATP	Cumulative Available to Promise

Master Production Schedule Quantity Type (34/MS)

The system uses 34/MS as the UDC for master production schedule quantity types. Quantity types are predefined codes that define the display data on the time series screens and reports that use the MPS/MRP/DRP Summary File table.

The UDC table 34/MS was developed as a subset of 34/QT. Upon review of 34/MS, notice that the quantity types have been reduced from the original quantity types in the 34/QT UDC table.

The table lists the valid quantity types and descriptions that are defined for MPS in UDC table 34/MS:

Quantity Type	Description
+BAU	+Beginning Available (Unadjusted)
+BA	+Beginning Available
+IR	In Receipt Routing
+POU	+Purchase Orders (Unadjusted)
+PO	+Purchase Orders
+WOU	+Work Orders
+WO	+Work Orders
+RSU	+Rate Schedule (Unadjusted)
+RS	+Rate Schedule
-LEXP	-Lot Expired
-FCSI	-MPS/Forecast (Unadjusted)
-FCST	-MPS Forecast
-SHIP	-Shipped Quantity
-SOU	-Sales Orders (Unadjusted)

When you set up the time series inquiry, you can create a new UDC table for the quantity types and change the appropriate processing option to display this new table. You can also use processing options to display two different tables, such as adjusted and unadjusted quantities.

Each table displays only items that are pertinent to its application. For example, UDC table 34/DR displays only data items that apply to DRP items. If the code is not defined in UDC table 34/DR, it does not appear on the Work with Time Series form or report. DRP and MPS calculations are not affected by the appearance of this code.

If you do not specify a particular UDC list, all quantity types appear. However, the time series calculation is not affected by the quantity types that are not pertinent to the application.

Adjusted Values Only (MPS) (34/AS)

The system uses 34/AS as the UDC for adjusted values only (MPS) quantity types. Quantity types are predefined codes that define the display data on the time series screens and reports that use the MPS/MRP/DRP Summary File table.

The 34/AS UDC table was developed as a subset of 34/QT. Upon review of 34/AS, notice that the quantity types have been reduced from the original quantity types in 34/QT. The 34/AS UDC table provides an adjusted view of the time series. This adjusted view depicts what the plan will be if all the planning recommendations are acted on.

Unadjusted Values Only (MPS) (34/US)

The system uses 34/US as the UDC for unadjusted values only (MPS) quantity types. Quantity types are predefined codes that define the display data on the time series screens and reports that use the MPS/MRP/DRP Summary File table.

The 34/US UDC table was developed as a subset of 34/QT. Upon review of 34/US, notice that the quantity types have been reduced from the original quantity types in 34/QT. The 34/US UDC table provides an unadjusted view of the time series. This unadjusted view depicts what the plan would look like if the planner does not act on the messages.

Setting Up Multi-Facility Planning

This section provides an overview of the multi-facility planning setup and discusses how to:

- Set the processing options for Branch Relationships Revisions.
- Set up supply and demand relationships.

Understanding the Multi-Facility Planning Setup

You set up multi-facility planning to track supply, demand, and movement of material among the individual facilities of the enterprise. Multi-facility planning provides a flexible method for planning supply and resupply activities.

In multi-facility planning, you must set up a table of supply and demand relationships among the facilities. The system uses these relationships to generate and maintain multi-facility plans.

Set up supply and demand relationships for any level of detail that you select, including:

- Branch/plant
- Product group
- Master planning family
- Individual item number

This approach enables you to maintain supply and demand relationships in one central location, and reduce inventory errors caused by complex facility relationships. In addition, when you set up supply and demand relationships, you can use these optional features:

Markup

You can have the system automatically mark up the cost of an item when you create a transfer order. The system can adjust the cost by a fixed amount or percentage.

Availability checking

You can ensure that the branch from which you are ordering has enough inventory in stock to fill the order. If the required quantity is not available, the system checks subsequent facilities in the sequence that you define.

Effectivity dates

Use effectivity dates to control the demands that are placed on the supply branches. If an effectivity date that was assigned to a supply branch has expired, the system checks for another facility.

The MRP, DRP, and MPS versions of the Branch Relationships Revisions program use the same processing options. You can vary the settings in the processing options to accommodate the different requirements for a material requirements plan.

Important! When you delete a supply and demand relationship, the system deletes the entire record.

Form Used to Set Up Supply and Demand Relationships

Form Name	Form ID	Navigation	Usage
Branch Relationship Revisions	W3403TC	Multi-Facility Setup (G3443), Branch Relationships Revisions On Work With Branch Relationships, click Add.	Define which branch/plants, product group, planning family and item are included in generating a multi-facility planning schedule.

Setting Processing Options for Branch Relationships Revisions (P3403T)

You must set this processing option to ensure that the level of the component branch is one level higher than the header for the source branch. The branch level on the Defaults tab, along with the branch priority, determines the sequence in which the system processes supply and demand plants. The system processes the branches with the highest numerical branch levels first.

Defaults

These processing options specify the default settings for Branch Relationships Revisions.

Enter the default Branch Relationship display mode.

Enter the default mode for the branch/plant.

D: Demand branch

S: Supply branch

Branch Level update

Enter the a value to specify the update to the branch.

Enter a *1* to automatically update the Branch Level field.

Setting Up Supply and Demand Relationships

Access the Branch Relationship Revisions form.

Planning Family	Enter an item number to display all branch/plants that either supply or demand a certain part. Enter the planning family to display all branch/plants that either supply or demand parts that belong to a specific master planning family.
Item Number	Enter an item number to display all branch/plants that either supply or demand a certain part.
Include/ Exclude	Enter a code that indicates whether the system includes or excludes the item/category code in the Branch Relationships Master table (F3403) when generating a multi-plant schedule. If an item/category code is excluded, then that item/category code will be purchased or manufactured at the demand branch. Some parts might come from certain branch/plants. In multi-facility planning, if Exclude is selected, then the item is supplied by the demand branch only.
Effective From	Enter a date that indicates: • When a component part goes into effect on a bill of material. • When a routing step goes into effect as a sequence on the routing for an item. • When a rate schedule is in effect. The default is the current system date. You can enter future effective dates so that the system plans for upcoming changes. Items that are no longer effective in the future can still be recorded and recognized in Product Costing, Shop Floor Management, and Capacity Requirements Planning. Material Requirements Planning determines valid components by effectivity dates, not by the bill of material revision level. Some forms display data based on the effectivity dates you enter. This date defaults in from the bill of material.
Source Percent	Enter an amount in percent. The system uses source percentage to determine what percentage of the planned order should be supplied by the source branch. For example: Demand Branch - ATL Supply Branch - DEN source percentage = 40 percent, CHI source percentage = 60 percent If ATL needs 100 parts, the system generates a message to transfer 40 parts from DEN and 60 parts from CHI. A source percentage of 100 transfers the entire supply from that branch/plant.
Percent To Fill	Enter a value which is used during multi-plant processing to determine what percent of an order should be filled to place a transfer order message. For example: • Percent to Fill - 75 percent • Demand - 200 • If the supply branch has 150 (75 percent of 200) or more available, then the planning system places the transfer order message.

	The system generates the transfer order message when the percent to fill is zero. This amount of the source percent must be available to be filled by this branch/plant. The percent of demand should be filled to place a transfer order message. A transfer order is generated if Availability Check is on.
Branch Level	Determines the level at which a component branch should be processed in multi-plant processing. The lowest level branches (which are assigned a higher numerical value) are processed first, followed by the higher level branches (which are assigned a lower numerical value). Note. Assign branch levels carefully so that the planning system generates all demand before allocating supply.
Branch Priority	Determines the sequence within a level that the branches are processed in multi-plant DRP/MPS/MRP. Use this field along with the Branch Level field to check inventory availability first in one branch, and then another.
Transfer Leadtime	Enter the number of days to ship items from the supply branch to the demand branch. This leadtime is set up in the Branch Relationships Master table and can vary for different category codes or even for different items.
Availability Check	Indicates if the planning system will check availability of the item or family at the supply branch/plant. If you enable availability checking on the item or family being demanded, the available inventory at the branch/plant will be committed until there is a zero balance. If you disable availability checking, the inventory balance in the supplying branch/plant can be negative.

Setting Up Forecast Consumption

This section provides an overview of the forecast consumption period and customer address relationship setup and discusses how to:

- Set up forecast consumption periods.
- Define customer address relationships.

Understanding the Forecast Consumption Setup

You set up forecast consumption periods to identify a period of time in which forecasts are consumed by sales orders. The system stores this information in the Forecast Consumption Periods table (F3405).

You define the end date for each forecast consumption period on the Work With Forecast Consumption Revisions form. The periods apply system-wide. You cannot have different forecast consumption periods for different locations or branch/plants.

The system adds the forecast consumption periods to the number of time series periods that you specified in the processing options for the MRP/MPS Requirements Planning program. The total for all time periods cannot exceed 52.

Note. You are not confined to entering forecast in the same period patterns as the consumption periods. For example, you can have weekly forecast to smooth the demand while having a monthly consumption period.

You must set up the planning fence field on the Additional System Information form, Plant Manufacturing tab with a value beyond the end of the planning horizon (a planning fence of 999 is recommended). If you do not set the planning fence beyond the planning horizon, the batch planning programs (DRP/MPS/MRP Regeneration and Net Change) do not work properly.

Understanding the Customer Address Relationship Setup

To use the forecast consumption by customer functionality, you have to be able to match forecast and sales order records by a common customer number. Since sales orders have two applicable address book numbers, sold to and ship to, you have to define which number the system uses to match a sales order to a forecast.

You can use the Forecast Consumption Customer Address Relationship program (P3406) to define whether the system uses the sold-to or the ship-to address when searching for sales orders. You can set up the relationship for the customer only, or you can set it up for a combination of item and customer.

When running MRP/MPS Requirements Planning or Master Planning Schedule - Multiple Plant, you can set a processing option that determines whether the system uses the sold-to or the ship-to number to search for sales orders. This processing option is used if no customer address relationship is set up the Customer Address Relationship table (F3406).

Note. It is recommended that you use the processing option to provide a default value for the customer address relationship and using the Forecast Consumption Customer Address Relationship program to provide override information where necessary.

Prerequisites

Before you complete the tasks in this section, verify that the information has been set up:

- Planning fence rule H in UDC list 34/TF.
- The order types in UDC list 40/CF, to include in shipped order calculations.
- The -SHIP quantity type in UDC list 34/QT, to calculate shipped orders quantity.
- The order types in UDC list 40/IU, to update inventory (includes order type SO).
- The Planning Fence Rule field on the Additional System Information form, Plant Manufacturing tab, with a value of *H*.
- The Planning Fence field on the Additional System Information form, Plant Manufacturing tab, with a value beyond the end of the planning horizon.
- The appropriate processing options in the MRP/MPS Requirements Planning program.

Forms Used to Set Up Forecast Consumption

Form Name	Form ID	Navigation	Usage
Work With Forecast Consumption Revisions	W3405A	Material Planning Setup (G3442), Forecast Consumption Periods	Define the time series period for forecast consumption
Forecast Consumption by Customer Address Relationship Revisions	W3406A	Material Planning Setup (G3442), Work with Forecast Consumption by Customer Address Relationship. On Work With Forecast Consumption by Customer Address Relationship, click Add.	Define which customer number is used to match sales orders to forecast

Setting Up Forecast Consumption Periods

Access the Work With Forecast Consumption Revisions form.

Forecast Consumption Periods - Work With Forecast Consumption Revisions

OK Find Delete Cancel Tools

Period End Date 12/31/05

Records 1 - 10 Customize Grid

☐	☐	Period End Date	Period Type
☐		01/31/06	FC
☐		02/28/06	FC
☐		03/31/06	FC
☐		04/28/06	FC
☐		05/31/06	FC
☐		06/30/06	FC
☐		07/31/06	FC
☐		08/31/06	FC
☐		09/29/06	FC
☒		10/31/06	FC

Work With Forecast Consumption Revisions form

Period End Date

Enter a date on which the defined period ends.

Period Type

Enter a type of record to be used in conjunction with Forecast Consumption. Values are:

FC: Forecast consumption period

TS: Time series bucket

Defining Customer Address Relationships

Access the Forecast Consumption by Customer Address Relationship Revisions form.

Work with Forecast Consumption by Customer Address Relationship - Forecast Consumption by Customer Address Relationship Revisions

OK Delete Cancel Tools

Customer Number 4201 Centarian Enterprises

Records 1 - 6		Customize Grid
	Item Number	Customer Address Relationship
☐	8801	1
☐	8802	1
☐	8803	1
☐	8804	1
☐	8805	1
☐		

Forecast Consumption by Customer Address Relationship Revisions form

Item Number

Enter a number that identifies the item. The system provides three separate item numbers plus an extensive cross-reference capability to alternative item numbers. The three types of item numbers are:

- *Item Number (short)*: An 8-digit, computer—assigned item number.
- *2nd Item Number*: An 25-digit, user defined, alphanumeric item number.
- *3rd Item Number*: Another 25-digit, user defined, alphanumeric item number.

In addition to these three basic item numbers, the system provides an extensive cross-reference search capability. You can define numerous cross-references to alternative part numbers. For example, you can define substitute item numbers, replacements, bar codes, customer numbers, or supplier numbers.

Customer Number

Enter a number that identifies an entry in Address Book, such as employee, applicant, participant, customer, supplier, tenant, or location.

Customer Address Relationship

Specify which address book number on a sales order the system uses to search for sales orders. Values are:

1: Ship To

2: Sold To

CHAPTER 5

Setting Up Capacity Planning

This section provides an overview of capacity planning setup requirements and discusses how to:

- Set up UDCs for capacity planning.
- Set up work center capacity information.
- Determine available capacity.
- Generate resource profiles.

Understanding Setup Requirements for Capacity Planning

Capacity planning is the process of validating if you have sufficient resources to complete the requirements plan. Setting up capacity planning is the process of defining the available capacity and critical areas where capacity constraints exist.

Prerequisite

Set up the work centers and dispatch groups as business units.

See *PeopleSoft EnterpriseOne General Accounting 8.11 PeopleBook*, “Setting Up the General Accounting System,” Setting Up Business Unit Supplemental Data.

Setting Up User-Defined Codes for Capacity Planning

In order to run capacity planning you must set up the UDCs.

Capacity Requirements Planning Display (33/CR)

The system uses 33/CR as the UDC for the capacity requirements planning display. Use the capacity requirements planning display to specify row descriptions for all Capacity Requirements Planning (CRP) forms and reports.

Rough Cut Capacity Planning Display (33/RC)

The system uses 33/RC as the UDC for the rough cut capacity planning display. Use the rough cut capacity planning display to specify row descriptions for all Rough Cut Capacity Requirements (RCCP) forms and reports.

Resource Requirements Planning (33/RR)

The system uses 33/RR as the UDC for resource requirements planning. The resource requirements planning display identifies the types of loads on a work center. You can review these types of loads on the Review Work Center Load form in the Capacity Load program (P3313).

Unit Types (33/UT)

The system uses 33/UT as the UDC for unit types. You need to identify all of the different types of resource units that can be associated with any work center.

Setting Up Work Center Capacity Information

This section provides an overview of the work center capacity setup and discusses how to set up work center capacity information for requirements planning.

Understanding Work Center Capacity Setup

Set up the work center information to correspond to the facilities on the shop floor. Specify whether the work center is machine- or labor-paced, and whether it is a critical work center. You also specify other values, such as the percent efficiency, and utilization of the work center and the crew.

Work centers also provide additional information such as:

- Pay points
- Prime load codes
- Number of machines and workers
- Crew size
- Backflush locations
- Rates

See Also

PeopleSoft EnterpriseOne Product Data Management 8.11 PeopleBook, “Entering Work Centers and Routing Instructions,” Creating Work Centers

Form Used to Set Up Work Center Capacity Information

Form Name	Form ID	Navigation	Usage
Work Center Master Revisions	W3006A	Daily PDM Discrete (G3011), Enter/Change Work Centers. On Work With Work Centers, click Add.	Define capacity information for work centers.

Setting Up Work Center Capacity

Access the Work Center Master Revisions form.

Work Center	Enter a number that identifies a branch, plant, work center, or business unit.
Dispatch Group	Enter a category code used to group work centers within an overall business unit. For example, you can use this code to group similar machines operating out of several work centers that report to one business unit.
Location Branch	Specify the branch plant of the location associated with the work center.
Prime Load	Enter a code that determines if a work center is machine or labor intensive. The system also uses prime load codes in Resource Requirements Planning and Capacity Requirements Planning calculations to develop load profiles. Codes are: <i>L</i>: Run labor hours only. <i>M</i>: Machine hours only. <i>B</i>: Run labor plus setup labor hours. <i>C</i>: Machine plus setup hours. <i>O</i>: Other (will not generate resource units).
Critical W/C (critical work center)	Enter a code that indicates whether the work center is critical or not critical when the system calculates capacity. Values are: <i>N</i>: Not a critical work center. <i>1</i>: A critical work center in calculating RRP only. <i>2</i>: A critical work center in calculating RCCP and CRP. <i>3</i>: A critical work center in calculating RRP, RCCP, and CRP. The system also displays <i>Type 3</i> work centers when you select <i>Type 1</i> or <i>Type 2</i> in this field. <i>4</i>: Not a capacity work center. The system does not include this work center in capacity planning. Note. The data selection is a system feature that processes certain groups of information with the RRP, RCCP, and CRP programs.
Resource Offset	Enter a value used in the Resource Profile table (F3303) to determine the number of days that the actual use of a work center resource should be offset from the forecasted need date.
Standard Capacity	Enter the standard capacity level at which a production line usually operates. Capacity is stated in units per hour. This level is used for repetitive processing only.
Capacity UOM (capacity unit of measure)	Enter a unit of measure that you use to express the capacity of a production line. Examples of units of measure include hours, number of stampings, coats of paint, and so on. This item is used for repetitive processing only.
Minimum Capacity	Enter the lower limit of the capacity, beyond which the production line should not operate. Management sets this limit, based on factors such as efficiencies, costs, and so on.

	Capacity is stated in units per hour. This limit is used for repetitive processing only.
Maximum Capacity	Enter the upper limit of the capacity, beyond which a production line cannot produce. Capacity is stated in units per hour. This limit is used for repetitive processing only.
Queue Hours	Enter the total hours that an order is expected to be in queue at work centers and moving between work centers. The system stores this value in the Item Branch table (F4102). You can calculate this value using the Leadtime Rollup program or you can enter it manually. When you run the Leadtime Rollup program, the system overrides manual entries and populates the table with calculated values.
Move Hours	Enter the planned hours that are required to move the order from this operation to the next operation in the same work center. If the Routing Master values are blank, the system retrieves the default value from the work order routing. However, the system uses these values only for backscheduling variable leadtime items. If you leave the Hours field on the Routing Revisions form blank, the system uses the value in this field for leadtime and scheduling calculations.
Replen. Hrs. (replenishment hours)	Enter the time required before a consuming location has a replacement kanban available from its supplying location. This value is used only for kanban card processing in Shop Floor Management.
Efficiency	Enter a user-defined value that indicates how efficiently a work center operates. This value usually refers to staff efficiency. When you enter a value in this field, and the Modify Cost by Work Center Efficiency field in the Job Shop Manufacturing Constants table (F3009) is set to <i>Y</i>, the system creates a new cost component (B4) from the cost calculated from the direct labor cost (B1). For example, if the constant is set to <i>Y</i>, the value of this field is <i>80 percent</i>, and the direct labor cost is <i>10</i>, the system creates a B4 cost component for 2 in the Item Cost Component Add-Ons table (F30026). The Refresh Resource Units program also uses this value as a default when calculating rated capacity. Enter percents as whole numbers. For example, enter 80 percent as <i>80.00</i>. Note. The system expects that the routing times entered for each operator are the actual times it takes to complete an operation. Efficiency does not affect total cost. Efficiency does reassign some of the costs into different cost components. Efficiency does not change the duration or backscheduling of a work order.
Utilization	Enter a percentage that indicates how intensively a work center is being used. This value usually refers to machine use. It is the ratio of the direct time charged for production activities to the planned hours. The Refresh Resource Units program also uses this value as a default when calculating rated capacity. Enter percents as whole numbers. For example, enter 80 percent as <i>80.00</i>.

Determining Available Capacity

This section provides an overview of determining available capacity, list prerequisites, and discusses how to:

- Set the processing options for Work Center Resource Units Generation (R3007G).
- Generate resource units automatically.
- Set the processing options for Work Center Resource Units (P3007).
- Revise resource units manually.

Understanding Available Capacity

You must determine how much production capacity the work centers have. You determine a work center's available capacity on a given day by entering resource units.

You can have the system generate resource units, or you can enter them manually. Use the Work Center Resource Units Generation program (R3007G) to automatically recalculate the work center hours. The system generates resource units, based on an hours (HR) unit of measure. Revise units manually if you need to make adjustments.

You can assign resource units for different units of measure in different work centers. For example, you might want to estimate the square footage that you need to store items as well as the hours which are needed to produce an item.

You can revise resource units manually if you need to make adjustments to them. For example, you might need to make adjustments to account for machine downtime or employee vacations. You can change the values on the Enter/Change Resource Units form to account for scheduled or unscheduled downtime, additional shifts, or vacation time.

Important! Each time that you run Work Center Resource Units Generation (R3007G), based on effectivity dates, the program recalculates the form values and overwrites the manual changes, based on information in the Work Center Master File table (F30006), the Workday Calendar program (P00071) (shop floor calendar), and the Job Shop Manufacturing Constants table (F3009).

Prerequisites

Before you complete the tasks in this section:

- Before you enter resource units, you must ensure that work centers exist for these resource units.
- Set up manufacturing constants.
- Determine the branch/plants for which you want to generate resource units.
- Verify that a current shop calendar for the time period that you specify is set up.

Form Used to Determine Available Capacity

Form Name	Form ID	Navigation	Usage
Work Center Resource Unit Revision	W3007B	Periodic Resource/Capacity Planning (G3321), Enter/Change Resource Units. On Work with Resource Units, complete the Branch/Plant and Work Center fields and click Find. Select the record to revise.	Revise resource units manually.

Setting Processing Options for Work Center Resource Units Generation (R3007G)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

These processing options define default values.

- 1. From Date**

Use this processing option to specify the beginning date that the system uses to generate resource units. Enter the beginning date or select a date from the calendar. The system generates resource units and refreshes them for the month in which the From date falls. For example, if the From Date is *01/10/05* and the Thru Date is *01/15/05*, the system generates resource units for January, 2005. The system requires that you enter values for this processing option before you can run the generation.
- 2. Thru Date**

Use this processing option to specify the ending date that the system uses to generate resource units. Enter the ending date or select a date from the calendar. Resource units are generated, refreshed, or both, for the entire month. For example, if the From Date is *01/10/05* and the Thru Date is *01/15/05*, the system generates resource units for January, 2005. The system requires that you to enter values for this processing option before you can run the generation.
- 3. Branch/Plant**

Use this processing option to specify the branch/plant updated by the system in the Work Center Resource Units table when you generate resource units.

Enter the branch/plant or select a branch/plant from the Business Unit Master Search form. This processing option is required before you can run the generation.

Process

These processing options define processing criteria.

- 1. Shift Code**

Enter a UDC (06/SH) that identifies the type of shift. For example, day, night, or graveyard.

These processing options specify the shift codes to be included in the resource unit generation. You can enter up to six different shift codes. Enter the code or select it from the Select User Define Code form. If you leave all shift codes blank, the system processes all valid shifts for the requested branch/plant.
- 2. Shift 2 Code**

Enter a UDC (06/SH) that identifies the type of shift. For example, *day*, *night*, or *graveyard*.

These processing options specify the shift codes to be included in the resource unit generation. You can enter up to six different shift codes. Enter the code or select it from the Select User Define Code form. If you leave all shift codes blank, the system processes all valid shifts for the requested branch/plant.
- 3. Shift 3 Code**

Enter a UDC (06/SH) that identifies the type of shift. For example, day, night, or graveyard.

These processing options specify the shift codes to be included in the resource unit generation. You can enter up to six different shift codes. Enter the code or select it from the Select User Define Code form. If you leave all shift codes blank, the system processes all valid shifts for the requested branch/plant.
- 4. Shift 4 Code**

Enter a UDC (06/SH) that identifies the type of shift. For example, day, night, or graveyard.

These processing options specify the shift codes to be included in the resource unit generation. You can enter up to six different shift codes. Enter the code or select it from the Select User Define Code form. If you leave all shift codes blank, the system processes all valid shifts for the requested branch/plant.
- 5. Shift 5 Code**

Enter a UDC (06/SH) that identifies the type of shift. For example, day, night, or graveyard.

These processing options specify the shift codes to be included in the resource unit generation. You can enter up to six different shift codes. Enter the code or select it from the Select User Define Code form. If you leave all shift codes blank, the system processes all valid shifts for the requested branch/plant.
- 6. Shift 6 Code**

Enter a UDC (06/SH) that identifies the type of shift. For example, day, night, or graveyard.

These processing options specify the shift codes to be included in the resource unit generation. You can enter up to six different shift codes. Enter the code or select it from the Select User Define Code form. If you leave all shift codes blank, the system processes all valid shifts for the requested branch/plant.

Generating Resource Units Automatically

Run the Work Center Resource Units Generation program (R3007G) to automatically recalculate the work center hours. You can view the results in the Work Center Resource Units program (P3007) or on the Work Center Resource Unit Revision form (W3007B). You can also change values on the Work Center Resource Unit Revision form.

You should run this program whenever you revise the hours per day on the Manufacturing Constants Revision form (W3009B), the number of machines in a work center, or the number of employees who are assigned to a work center. You can also run the program to define resource units for specific time periods.

The system recalculates the resource units for a work center based on:

- Hours per day in the Work Center Master File table (F30006).
- Shop floor calendar.
- Job Shop Manufacturing Constants table (F3009).

Important! Any manual changes that you make to the units on Work Center Resource Units is overwritten when you run Work Center Resource Units Generation, based on effectivity dates.

Resource Unit Calculations

The program uses resource unit calculations:

Machine-related hours (prime load code = C or M)	Number of machines * work hours per day
Labor-related hours (prime load code = L or B)	Number of employees * work hours per day

Setting Processing Options for Work Center Resource Units (P3007)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

This processing option defines a default value.

- | | |
|--|---|
| 1. Enter the Default Unit of Measure for Work Center Resource Units. If left blank, HR will be used as the default Unit of Measure. | Enter a UDC (00/UM) that indicates the quantity in which to express an inventory item, for example, <i>CS</i> (case) or <i>BX</i> (box). |
| | Work Day Calender (P00071) |
| | Identifies a specific set of data selection and sequencing settings for the application. Versions may be named using any combination of alpha and numeric characters. |

Revising Resource Units Manually

Access the Work Center Resource Unit Revisions form.

Enter/Change Resource Units - Work Center Resource Unit Revision

Cancel Form Tools

Work Center: 200-101 Weld Branch/Plant: M30

Month/Year: 1 5 Century: 20 Unit of Measure: HR Shift:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Efficiency
						1	100.00
2	3	4	5	6	7	8	
9	10	11	12	13	14	15	
16	17	18	19	20	21	22	Utilization
23	24	25	26	27	28	29	100.00
30	31						

0	24.00	24.00	24.00	24.00	24.00	0	
0	24.00	24.00	24.00	24.00	24.00	0	
0	24.00	24.00	24.00	24.00	24.00	0	
0	24.00	24.00	24.00	24.00	24.00	0	Total Resource Units
0	24.00						504.00

Work Center Resource Unit Revision form

- Work Center** Enter a number that identifies a branch, plant, work center, or business unit. This value identifies the available capacity for the work center.
- Month** Enter a number that corresponds to the month in a calendar year.
- Year** Enter the calendar year for this calendar.
- UM (unit of measure)** Enter the default value comes from the component and production units of measure from the Item Master table.
- Work Center Efficiency** Enter a user-defined value that indicates how efficiently a work center operates. This value usually refers to staff efficiency. When you enter a value in this field, and the Modify Cost by Work Center Efficiency field in the Job Shop Manufacturing Constants table (F3009) is set to Y, the system creates a new cost component (B4) from the cost calculated from the direct labor cost (B1). For example, if the constant is set to Y, the value of this field is *80 percent*, and the direct labor cost is 10, the system creates a B4 cost component for 2 in the Item Cost Component Add-Ons table (F30026). The Refresh Resource Units program also uses this value as a default when calculating rated capacity. Enter percents as whole numbers. For example, enter 80 percent as *80.00*.

Note. The system expects that the routing times entered for each operator are the actual times it takes to complete an operation. Efficiency does not affect total cost. Efficiency does reassign some of the costs into different cost components. Efficiency does not change the duration or back scheduling of a work order.

Work Center Utilization

Enter a percentage that indicates how intensively a work center is being used. This value usually refers to machine use. It is the ratio of the direct time charged for production activities to the planned hours.

The Refresh Resource Units program also uses this value as a default when calculating rated capacity.

Enter percents as whole numbers. For example, enter 80 percent as *80.00*.

Generating Resource Profiles

This section provides an overview of resource profiles, list prerequisites, and discusses how to:

- Set the processing options for Resource Profile Generation (R3365).
- Generate resource profiles automatically.
- Define resource profiles manually.

Understanding Resource Profiles

Long-range load is an estimate of how many load hours are required to meet sales projections. To determine long-range load, the system uses resource profiles. The resource profile is a list of all work centers and their load requirements for a master-scheduled item. The resource profile is the sum of all labor, machine, and setup hours that are required for all work centers and for all parts in the multilevel bill of material for a master-scheduled item.

You can have the system automatically generate a resource profile, or you can manually enter the profile. You manually enter the profile if you have not defined bills of material and routings for an end item. You can also use the manual method for prototype items and new products.

Prerequisites

Before you complete the tasks in this section:

- Enter all applicable bills of material, routings, and work centers.
- See these topics in the Product Data Management Guide:
 - Entering Bills of Material.
 - Working With Routing Instructions.
 - Working with Work Centers.

Form Used to Generate Resource Profiles

Form Name	Form ID	Navigation	Usage
Resource Profile Revisions	W3303B	Periodic Resource/Capacity Planning (G3321), Enter/Change Resource Profile. On Work with Resource Profile Revisions, click Add.	Create resource profiles manually. You must set up item branch/plant information before entering a resource profile.

Setting Processing Options for Resource Profile Generation (R3365)

Processing options enable you to specify the default processing for programs and reports.

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Process

These processing options define processing criteria.

1. Enter the effectivity dates for the regeneration:

Effective From:

Enter a date that indicates:

- When a component part goes into effect on a bill of material.
- When a routing step goes into effect as a sequence on the routing for an item.
- When a rate schedule is in effect the default is the current system date.

You can enter future effective dates so that the system plans for upcoming changes. Items that are no longer effective in the future can still be recorded and recognized in Product Costing, Shop Floor Management, and Capacity Requirements Planning. The Material Requirements Planning system determines valid components by effectivity dates, not by the bill of material revision level. Some forms display data based on the effectivity dates you enter.

Effective Thru:

Enter a date that indicates:

- When a component part is no longer in effect on a bill of material.
- When a routing step is no longer in effect as a sequence on the routing for an item.
- When a rate schedule is no longer active. The default is *December 31* of the default year defined in the Data Dictionary for Century Change Year.

You can enter future effective dates so that the system plans for upcoming changes. Items that are no longer effective in the future can still be recorded and recognized in Product Costing, Shop Floor Management, and Capacity Requirements Planning. The Material Requirements Planning system

determines valid components by effectivity dates, not by the bill of material revision level. Some forms display data based on the effectivity dates you enter.

Generating Resource Profiles Automatically

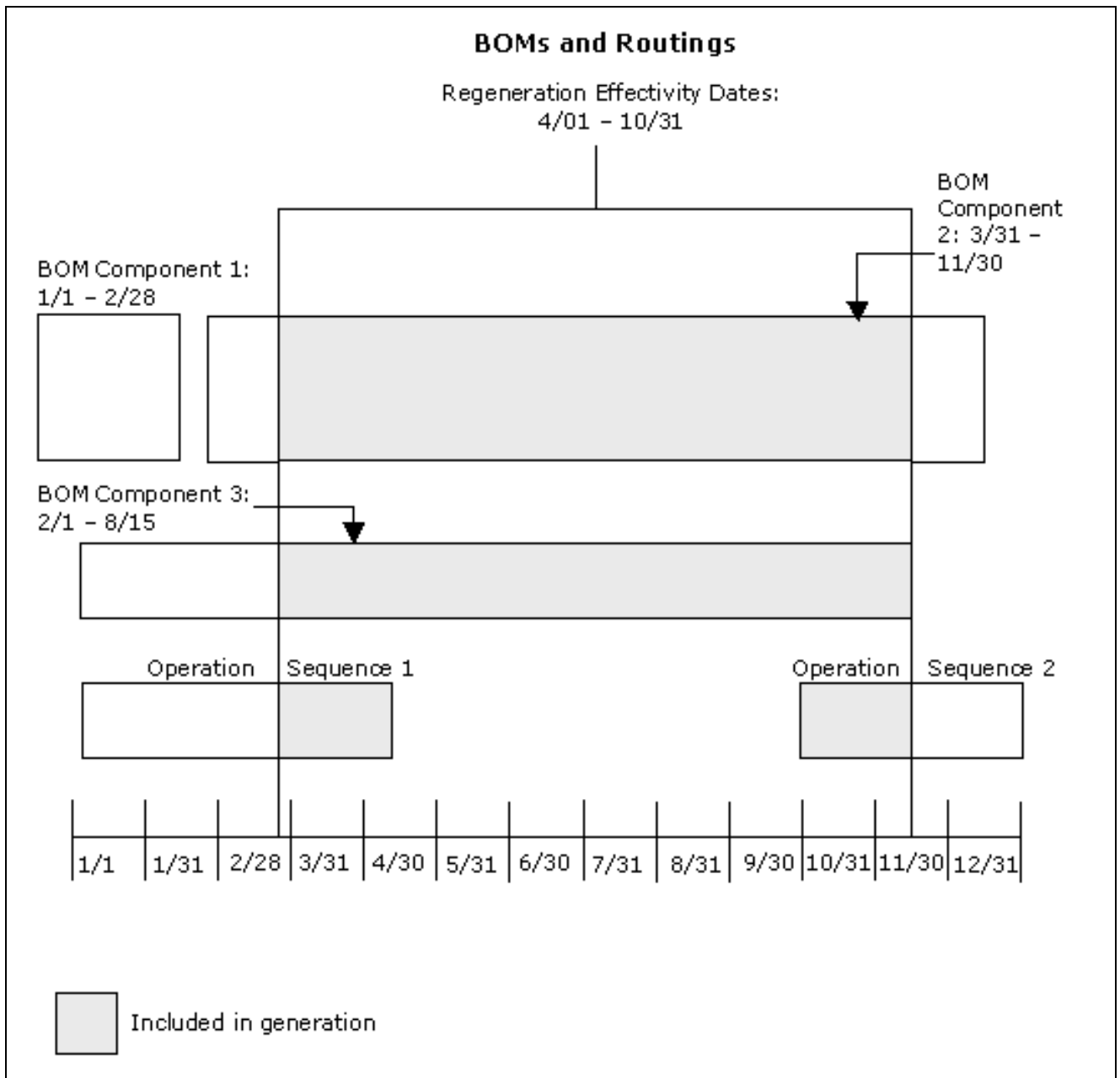
If you have defined bills of material (BOMs) and routings for an end item and all of its subassemblies, you can run the Resource Profile Regeneration program (R3365) to automatically generate the resource profile. The program calculates the load on a work center by extending the hours in the routing by the forecasted quantities for the master-scheduled items.

The Resource Profile Regeneration program creates units of measure only in hours (HR). Enter the resource profile manually if you want to use other units of measure.

Resource Profile Regeneration changes or updates the resource profile by using components with effectivity dates within the period that you specify. The specific items that are affected by the program are determined by such factors as:

- The system retrieves routings only for BOM components that are effective within the range of effectivity dates in the processing options for the regeneration.
- The system creates resource profiles only from BOM components with effectivity dates that are within the effectivity dates which are assigned to the item and the processing options.
- The Effective From date in the resource profile is the earliest of the dates in the processing option, the BOM, or the routing Effective From dates.
- The Effective Through date for resource profiles is the latest of the dates in the processing option, the BOM, or the routing Effective Through dates.

This graphic illustrates all the BOMs and routings with effectivity dates that are within the Effective From and Effective Through dates:



BOMs and Routings

Defining Resource Profiles Manually

Access the Resource Profile Revisions form.

Unit Type

Enter a code indicating the type of resource unit associated with this work center.

Possible types are:

1: Run Labor Hours

2: Setup Labor Hours

3: Machine Hours

9: Miscellaneous (Storage Space, and so on)

Effective From

Enter a date that indicates:

- When a component part goes into effect on a bill of material.
- When a routing step goes into effect as a sequence on the routing for an item.
- When a rate schedule is in effect the default is the current system date.

You can enter future effective dates so that the system plans for upcoming changes. Items that are no longer effective in the future can still be recorded and recognized in Product Costing, Shop Floor Management, and Capacity Requirements Planning. Material Requirements Planning determines valid components by effectivity dates, not by the bill of material revision level. Some forms display data based on the effectivity dates you enter.

Effective Thru

Enter a date that indicates:

- When a component part is no longer in effect on a bill of material.
- When a routing step is no longer in effect as a sequence on the routing for an item.
- When a rate schedule is no longer active.

The default is *December 31* of the default year defined in the Data Dictionary for Century Change Year. You can enter future effective dates so that the system plans for upcoming changes. Items that are no longer effective in the future can still be recorded and recognized in Product Costing, Shop Floor Management, and Capacity Requirements Planning. Material Requirements Planning determines valid components by effectivity dates, not by the bill of material revision level. Some forms display data based on the effectivity dates you enter.

Time Basis

Enter a UDC (30/TB) that indicates how machine or labor hours are expressed for a product. Time basis codes identify the time basis or rate to be used for machine or labor hours entered for every routing step. For example, 25 hours per 1,000 pieces or 15 hours per 10,000 pieces. You can maintain the time basis codes in Time Basis Codes.

The system uses the values in the Description-2 field on the User Defined Codes form for costing and scheduling calculations. The description is what the code represents, but is not used in calculations.

CHAPTER 6

Setting Up Supplier Release Scheduling

This chapter provides an overview of the supplier release scheduling setup and discusses how to:

- Define supplier contract information
- Define shipment patterns
- Define supplier split percentages

Understanding Supplier Release Scheduling Setup

To perform supplier release scheduling, you need to set up information for each of the suppliers and for the items that you are planning to purchase. The information that is required to generate supplier release schedules varies, depending on whether you want to generate schedules that are based on blanket orders or ad-hoc schedules. You can enter ad-hoc schedules interactively through the self-service portal work spaces or generate them when running the Supplier Schedule Generation program (R34400).

If you want to schedule releases against blanket orders, you set up supplier schedule master information that is tied to a blanket order, such as:

- Shipment pattern and dates

This setup indicates the days of the week when you will accept deliveries.

- Supplier split percentages

You use this value if you want to use more than one supplier for an item.

- Frozen days

You use this value to specify the time period after the schedule generation date during which quantities cannot be changed and no releases are permitted.

- Releasable schedule days

Releasable schedule days indicate the time fence from the schedule generation date for releasing committed quantities.

If you want to be able to create ad-hoc schedules, you can set up shipment patterns and dates, as well as split percentages without a blanket order; and use information set up for the item in the Item Branch program (P41026), such as:

- Supplier
- Freeze fence

You do not have to set up a release fence for ad-hoc schedules until you actually run the Supplier Schedule Release Generation program (R34410). You use a processing option to define the period in days from the generation start date within which committed quantities can be converted into purchase orders.

Defining Supplier Contract Information

This section provides an overview of supplier contract information, list the prerequisite, and discusses how to:

- Set processing options for Supplier Schedule Master Revisions (P4321).
- Set up supplier contracts.

Understanding Supplier Contract Information

When you set up a supplier contract that is based on a blanket order, you can define information, such as time fence periods and releasable schedule days. You can also specify a delivery location, a minimum shipment quantity, and a shipment lead time. Finally, you can indicate whether the supplier schedule should be displayed in days, weeks, or months.

When you generate a schedule, the system:

- Sorts blanket order releases that are outstanding into appropriate time periods.
- Accumulates past due quantities and quantities that you received prior to the requested date.
- Expresses past due amounts as positive numbers in the Past Due field.
- Expresses early receipt amounts in the Early Receipt field and adds the amounts to the cumulative received quantity.

When you regenerate the schedule, the system displays the quantities in the Past Due and Early Receipt fields on the Vendor Schedule Master Revisions form. When you delete supplier information, the system deletes the entire record, including the history.

Note. It is recommended that you specifically designate items for which you want to create vendor schedules. You can use category codes to specify that an item be used for supplier release scheduling.

Prerequisite

Create a blanket order line for every item that you want to schedule, using blanket scheduling.

Form Used to Set Up Supplier Contracts

Form Name	Form ID	Navigation	Usage
Vendor Schedule Master Revisions	W4321C	DRP Daily Operations (G3411), Enter/Change Supplier Info. MRP Daily Operations (G3413), Enter/Change Supplier Info. On Work With Vendor Schedule Master complete the Order Number, Line Number, Order Type and Order Company fields and click Add.	Enter the schedule information that represents the supplier contract

Setting Processing Options for Supplier Schedule Master Revisions (P4321)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

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Versions

This processing option specifies the version of a program.

Enter the version of each program.	If left blank, ZJDE0001 will be used. <i>I</i>: Purchase Order Header, Purchase Order Header (P4310) <i>2</i>: Purchase Orders, Work With Purchase Order Detail (P4310) <i>3</i>: Supplier Schedule (P34301) <i>4</i>: Supplier Split Percentage (P43211)
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Defaults

These processing options specify the default processing.

1. Enter the Document Type to display.	Enter a UDC (00/DT) that identifies the origin and purpose of the transaction. The reserved document type prefixes for codes are: <i>P</i>: Accounts payable documents <i>R</i>: Accounts receivable documents <i>T</i>: Time and Pay documents <i>I</i>: Inventory documents <i>O</i>: Purchase order documents <i>S</i>: Sales order documents
2. Work Day Calendar Type	Enter a UDC (42/WD) that specifies how the calendar is used. For example, the calendar might be specific to an industry such as banking or it might be used to schedule delivery persons for a route. Note. If you use the default value of *, the system updates the value to blank even though blank is not set up as a value in the UDC table.
3. Work Day Calendar Key	Enter a code used to classify values within a calendar type. For example, if the calendar type is <i>ROUTE</i>, you can enter a code that specifies a particular route, such as <i>Daily</i> or <i>Weekend</i>.

Note. The system does not validate the code that you enter.

Setting Up Supplier Contracts

Access the Vendor Schedule Master Revisions form.

Enter/Change Supplier Info - Vendor Schedule Master Revisions

OK Cancel Form Tools

Order Number 291 OB 00200 Branch/Plant M30

Line Number 1.000 Status 10

Schedule Information Other Information

Supplier 9001 25 mm Cro-Moly Tubing

Ship To 6074

Deliver to Location

Shipment Quantity

Ship Units/Cont 1

Shipment Leadtime 2

Vendor Lot Size

Frozen Days

Fabrication Days

Raw Material Days

Releasable Days 20

Vendor Schedule D/W/M Number

☐ Days ☐ Weeks ☒ Months 5

Vendor Master Schedule Revisions form

Releasable Days

Enter a time fence that indicates the number of workdays from the generation start date to use when identifying the cutoff date for actual blanket order releases. The system uses the time fence when the supplier schedule release generation program is run.

Deliver to Location

Enter the location a shipment should be delivered to, such as a particular receiving dock or work center.

Shipment Quantity

Enter this is the quantity the supplier is willing to ship as a minimum.

Ship Units/Cont (ship units/container)

Enter the standard quantity of containers that you use in the manufacturing process (typically, in a repetitive manufacturing environment). The quantity that you enter determines the number of bar code labels that you will need for shipping. It also modifies order release quantities.

Identifies the container requirements of the supplier. When the system generates the supplier schedule, it calculates the shipping units per container as a multiple and adjusts the planned quantities as needed.

Shipment Leadtime

Enter the time it takes a shipment to move from the supplier's dock to the customer's dock. The system uses this value to offset the required date to determine the actual date that the shipment should take place. Also known

	as Transit Time. The level leadtime for a purchased item should include the shipment leadtime.
Vendor Lot Size	Enter a value that identifies the lot size requirements of the supplier. When the system generates the supplier schedule, it calculates the vendor lot size as a multiple and adjusts the planned quantities as needed.
Frozen Days	Enter the number of workdays from the generation start date that the quantity buckets will be frozen with no changes and releases possible. This value is also used to calculate the cumulative frozen quantity (see CFRO).
Fabrication Days	Enter the number of workdays, from the generation start date, that the customer guarantees the fabrication costs for the quantity ordered.
Raw Material Days	Enter the number of workdays, from the generation start date, that the customer guarantees the raw material costs for the quantity ordered.

Defining Shipment Patterns

This section provides an overview of shipment patterns and discusses how to:

- Create shipment patterns.
- Revise shipment dates.

Understanding Shipment Patterns

You must define which days are valid to receive a shipment. You can define a pattern that governs the frequency of supplier deliveries. For example, you can define one of the shipment patterns:

- All work days.
- Every Monday.
- Monday through Friday of the first and third weeks of the month.

To set up a shipment patterns and shipment dates for a supplier schedule that is based on a blanket order, you access the Shipment Pattern Revisions (P43212) and Shipment Date Revisions (P43213) programs from the Supplier Schedule Master Revisions program (P4321).

Note. If you are creating ad-hoc schedules and need to set up a shipment pattern for the supplier, you access these programs from the menu.

Forms Used to Define Shipment Patterns

Form Name	Form ID	Navigation	Usage
Shipment Pattern Revisions	W43212A	On Vendor Schedule Master Revisions, select Shipment Pattern from the Form menu.	Enter the date pattern for the shipments you receive from a supplier
Shipment Date Revisions	W43213B	Vendor Schedule Master Revisions, select Shipment Dates from the Form menu. On Work With Shipment Dates, select a record and click Select	Revise the shipment pattern you created before, when necessary.

Creating Shipment Patterns

Access the Shipment Pattern Revisions form.

Enter/Change Supplier Info - Shipment Pattern Revisions

OK Cancel Form Tools

Supplier 4344 Branch M30

Item Number 9001 and / or Line Number 1.000

Order Number 291 OB and / or Order Company 00200

Effective From Thru Non-Work Day

Ship Day

☐ Sunday ☐ Monday ☒ Tuesday ☐ Wednesday

☐ Thursday ☐ Friday ☐ Saturday

OR

Day Of Month

OR

☐ All Work Days

Ship Week

☐ Week 1

☐ Week 2

☐ Week 3

☐ Week 4

☐ Week 5

OR

Recur Every Week (s)

Shipment Pattern Revisions form

Day Of Month

Enter a day of the month (1 thru 31)

All Work Days

Enter a code for selecting all work days in a week.

Recur Every Week(s)

Enter a code that determines the weekly pattern that the system builds based on the effective from date.

Codes are:

1: Every week is scheduled

2: Every second week is scheduled

Revising Shipment Dates

Access the Shipment Date Revisions form.

Enter/Change Supplier Info - Shipment Date Revisions

OK Cancel Form Tools

Address Number 4344 Branch M30

Item Number 9001 Order Number 291 OB

Calendar Year/Month 4 11 Line Number 1.000

2004 November 2004							2004 November 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6		N	N	N	N	N	N
7	8	9	10	11	12	13	N	N	N	N	N	N	N
14	15	16	17	18	19	20	N	N	N	N	N	N	N
21	22	23	24	25	26	27	N	N	N	N	N	N	N
28	29	30					N	N	N				

Shipment Date Revisions form

Defining Supplier Split Percentages

This section provides an overview of supplier split percentages and discusses how to set up supplier split percentages.

Understanding Supplier Split Percentages

Buyers can order the same item from multiple suppliers to avoid relying on a single supplier. Supplier scheduling enables multiple suppliers to supply a single item, based on a predetermined split percentage. Use the Supplier Split Percentages Revisions program (P43211) to define the split percentages among the suppliers.

Form Used to Set Up Supplier Split Percentages

Form Name	Form ID	Navigation	Usage
Work With Supplier Split Percentages	W43211C	DRP Daily Operations (G3411), Supplier Split Percentages. MRP Daily Operations (G3413), Supplier Split Percentages	If you use more than one supplier you define the delivery volume percentage for each supplier.

Setting Up Supplier Split Percentages

Access the Supplier Split Percentage Revisions form.

Supplier Split Percentages - Supplier Split Percentage Revisions

OK Find Delete Cancel Form Tools

Branch/Plant As of Date

Item Number Chain, Std

Records 1 - 3 Customize Grid

☐	☐	Address Number	Description	Split Percent	Effective From	Effective Thru	Branch Plant	Item Number Short
☐		4245	Cloud Nine Inc.	25.00	01/01/05	06/01/05		
☐		4343	Parts Emporium	75.00	01/01/05	06/01/05		
☐								

Total

Supplier Split Percentage Revisions form

Split Percent

Enter the percentage applied.

For Supplier Release Scheduling: The percentage of the planned quantity that the system applies to the corresponding supplier. The total planned quantity must equal 100 percent. Otherwise, the system displays an error message.

CHAPTER 7

Planning Production Capacity

This chapter provides an overview of capacity planning and discusses how to:

- Generate resource requirements plans
- Validate resource requirements plans

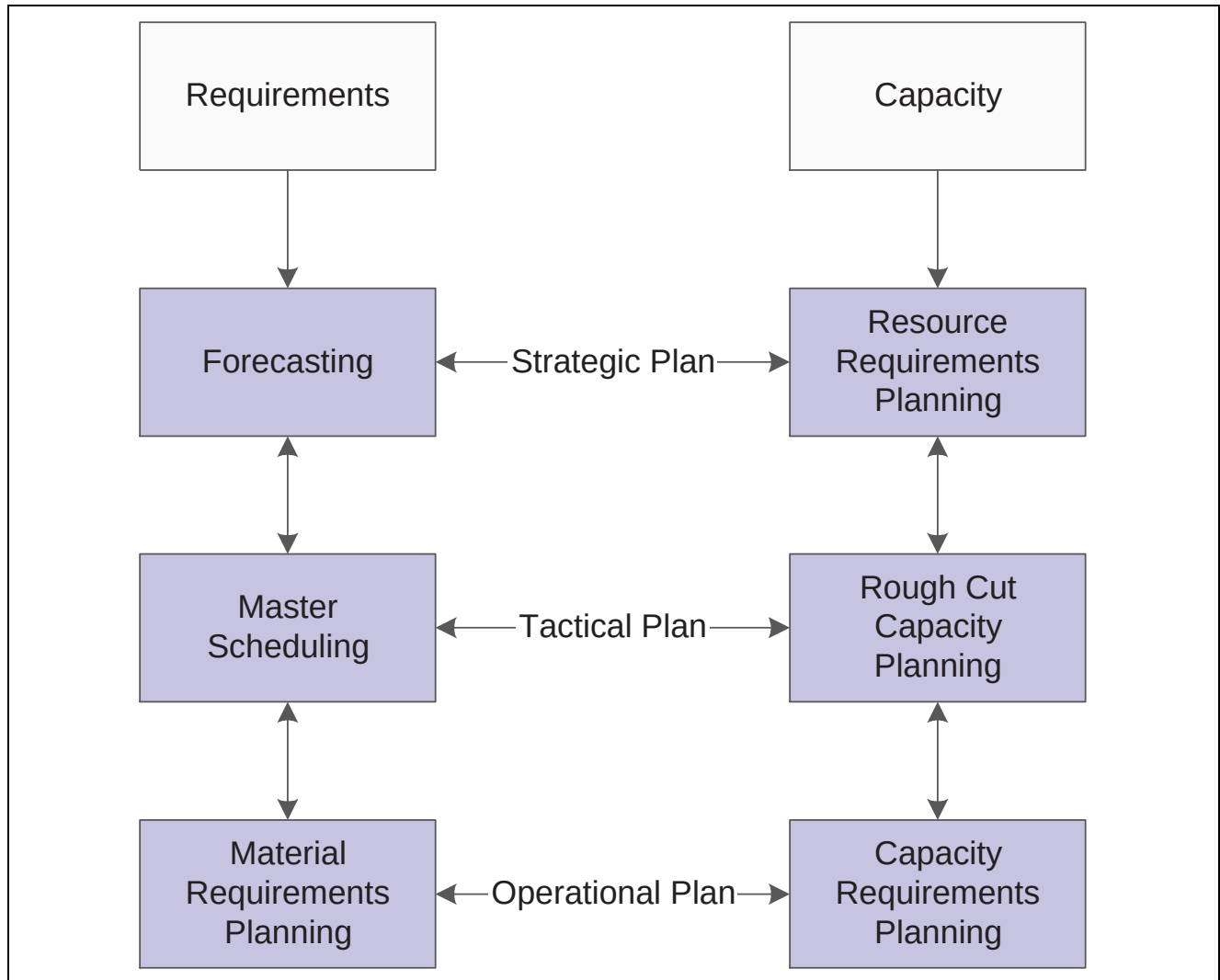
Understanding Capacity Planning

Use Capacity Planning to ensure that sufficient capacity is available to accomplish the planned production schedule that is generated by Master Production Schedule (MPS) or Material Requirements Planning (MRP). If sufficient capacity is not available, then you must alter the plan or the capacity.

PeopleSoft EnterpriseOne Capacity Planning comprises:

- Resource Requirements Planning (RRP)
- Rough Cut Capacity Planning (RCCP)
- Capacity Requirements Planning (CRP)

This graphic illustrates the planning system:



Capacity Planning

RCCP identifies capacity constraints at critical work centers.

CRP matches the available personnel and equipment resources to the resource requirements as generated by MRP. CRP indicates whether you need to revise the material requirements plan or increase resources.

Work center capacity is based on available hours to produce products within certain time frames. MPS, MRP, and Shop Floor Management provide the actual hours to produce products, based on the quantity that is required.

Manufacturing must determine whether the production plan is supportable as is or whether additional future resources are needed, such as:

- Additional skilled labor.
- New machinery.
- New facilities or additional real estate.

Demand forecasting is the logical starting point for developing a resource requirements plan. However, you must remember that the demand forecast is not the actual plan—it is only input into the plan. RRP provides an estimate of the time and resources that you need to produce a product.

You generate a resource requirements plan after you generate the long-term forecast but before you run the Master Scheduling program. Resource Requirements Planning uses the data from a forecast of future sales to estimate the time and resources that are required to meet the production plan.

RRP can help you resolve long-range planning issues, such as:

- Expanding existing facilities.
- Acquiring new facilities.
- Staffing loads.
- Determining capital expenditures for equipment.

RRP enables you to support the company's strategic business plan with a realistic tactical plan. The tactical plan:

- Is shorter in range than the strategic plan and has a planning horizon of 12 months to 3 years.
- Enables planning at the product family level and has greater detail than the strategic plan.
- Validates the monetary amounts that are allotted to the business plan.

The Resource Requirements Planning program generates a capacity plan by critical work center. To answer long-range planning questions, you need to know the current capacity and the requirements to support the planned workload.

Generating Resource Requirements Plans

This section provides an overview of resource requirements planning and discusses how to set processing options for Resource Requirements Planning (R3380).

Understanding Resource Requirements Planning

After you have entered resource units and resource profiles, you run the Resource Requirements Planning Regeneration program (R3380) to generate the resource requirements plan. The plan contains long-range estimates of the capacity needs at the work centers. These needs might include:

- The number of production staff that you need to hire to meet future production needs.
- The number of additional machines that you will need for a new product line.
- The real estate that you will need to buy for additional facilities.

Because you use the forecast in place of work orders for long-range planning, the data that this program creates is an estimate of capacity needs that is based on the forecast. The resource profile offsets required dates for capacity.

The types of data that you can create include:

- Over-capacity or under-capacity messages.
- Period summaries about work centers.
- New load profile information based on the type of work center load:
 - Rated profile is the number of available units from the Work Center Resource Units table (F3007).

- Loaded profile is the forecasted load that is derived from the master planned items' forecasts and their resource profiles.
- Percent resource used is the loaded profile divided by the rated profile.
- Resource available is the rated profile minus the loaded profile.
- Accumulated resources available is a running total of the resources that are available.

When you set up the versions for planning the resource requirements, you need to determine the data selection for work centers, branch/plants, and dispatch groups that you want to process.

Work centers to process

You can make one of these choices:

- *N*: Process only non-critical work centers.
- *I*: Process critical work centers in calculating resource requirement plans only.
- *2*: Process critical work centers in calculating capacity requirements plans only.
- *3*: Process critical work centers in calculating resource requirements plans and capacity requirements plans.
- *4*: Not a capacity work center (will not be processed in Capacity Requirements Planning).

Branch/plant and dispatch group

You can select specific information for planning facilities and dispatch groups:

- A specific planning facility or the dispatch groups, or both.
- A group of planning facilities or the dispatch groups that are using the *RANGE* or *LIST* values, or both.

Prerequisites

Before generating requirements plans, verify:

- Resource units exist for all of the work centers in the facility.
- Resource profiles exist for all of the master-scheduled items.
- Resource profile is set up with the appropriate units of measure. You can use a maximum of five units of measure.
- Create a detail forecast for the master-scheduled items using the Forecast Revisions program (P3460).

See *PeopleSoft EnterpriseOne Forecast Management 8.11 PeopleBook*, "Working with Detail Forecasts".

- Determine which forecast types that you want to use in the generation. You can use a maximum of five.

See *PeopleSoft EnterpriseOne Forecast Management 8.11 PeopleBook*, "Working with Summary Forecasting," Setting Up Summary Forecasts.

- Set up the shop floor calendar for all summary time periods for which you want to generate resource requirements plans.

Setting Processing Options for Resource Requirements Planning Regeneration (R3380)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

From the Periodic Resource/Capacity Planning menu (G3321), select Resource Requirements Planning.

Bucket Info

These processing options enable you to specify the regeneration start date, the planning horizon periods, and the past due periods in a planning process.

- | | |
|-----------------------------------|---|
| 1. Regeneration Start Date | Use this processing option to specify the date that the program uses to start the planning process. This date is also the beginning of the planning horizon.

If you leave this option blank, the system uses the system date. |
| Number of Planning Weeks | Use this processing option to specify the number of weeks that the system indicates in a planning period. For example, when the system displays the Time Series program (P3413), the system also accesses data for the number of planning weeks. |
| Number of Planning Months | Use this processing option to specify the number of months that the system indicates in a planning period. For example, when the systems displays the Time Series program, the system also accesses monthly data for the number of planning months. |
| 3. Past Due Periods | Use this processing option to display the number of past due periods that the system generates for a loaded profile. These values represent the number of past due periods for the program's generation date. Values are:

0: zero periods (default)
1: one past due period
2: two past due periods |

Process

These processing options enable you to specify the branch that a system uses for the CRP/RCCP Regeneration program (R3382) and the percentages for underrated and overrated capacity. Additionally, you determine whether you want work centers to be rolled up by dispatch group in the planning.

- | | |
|--|--|
| 1. Branch | Use this processing option to specify the branch that the system uses for the CRP/RCCP Planning Regeneration program. |
| 2. Under Rated Capacity Percent | Use this processing option to specify the percent under the rated capacity that the system uses to determine whether a work center is underloaded. The system displays messages with a status of <i>U</i> (under) for capacity loads that are less than the identified percentage under the rated value.

For example, if the rated capacity is 100 units and the underrated capacity is set to <i>5 percent</i> , then the system still considers a capacity load of 95 units as a valid load at a work center. Similarly, the system would consider a capacity load of 94 units as an underload. |
| 3. Over Rated Capacity Percent | Use this processing option to specify the percent over the rated capacity that the system uses to determine whether a work center is overloaded. The system displays messages with a status of <i>O</i> (over) for the capacity load that is greater than the identified percentage over the rated value. |

For example, if the rated capacity is 100 units and the overrated capacity is set to *5 percent*, then the system would still consider a capacity load of 105 as a valid load at a work center. Similarly, the system would consider a capacity load of 106 units as an overload.

4. Roll Up To Dispatch Group

Use this processing option to specify whether multiple work centers within a dispatch group roll up to that dispatch group for review. Values are:

Blank: The system does not roll up work centers to a dispatch group.

1: The system rolls up work centers to a dispatch group.

Forecast Types

These processing options enable you to specify the forecast type that the system processes when it runs the Resource Requirement Planning Regeneration program. You can enter up to five forecast types in the system. Forecast types are user-defined and stored in the Forecast File table (F3460).

Forecast Type 1

Use this processing option to specify the forecast type that the system processes when you run the Resource Requirements Planning program.

Forecast types are user-defined and are stored in the Detail Forecast table.

Forecast Type 2

Use this processing option to specify the forecast type that the system processes when you run the Resource Requirements Planning program.

Forecast types are user-defined and are stored in the Detail Forecast table.

Forecast Type 3

Use this processing option to specify the forecast type that the system processes when you run the Resource Requirements Planning program.

Forecast types are user-defined and are stored in the Detail Forecast table.

Forecast Type 4

Use this processing option to specify the forecast type that the system processes when you run the Resource Requirements Planning program.

Forecast types are user-defined and are stored in the Detail Forecast table.

Forecast Type 5

Use this processing option to specify the forecast type that the system processes when you run the Resource Requirements Planning program.

Forecast types are user-defined and are stored in the Detail Forecast table.

UOM

These processing options enable you to specify the units of measure that the system processes when you run the Resource Requirements Planning Regeneration program. The system can process up to five units of measure at a time.

Unit of Measure 1

Use this processing option to specify the unit of measure that the system processes when you run the Resource Requirements Planning program.

Unit of Measure 2

Use this processing option to specify the unit of measure that the system processes you run the Resource Requirements Planning program.

Unit of Measure 3

Use this processing option to specify the unit of measure that the system processes when you run the Resource Requirements Planning program.

Unit of Measure 4	Use this processing option to specify the unit of measure that the system processes when you run the Resource Requirements Planning program.
Unit of Measure 5	Use this processing option to specify the unit of measure that the system processes when you run the Resource Requirements Planning.

Validating Resource Requirements Plans

This section provides an overview of resource requirements plan validation and discusses how to:

- Set processing options for Capacity Message Summary (P3301).
- Review dispatch groups.
- Set processing options for Capacity Load (P3313).
- Review work center loads.
- Set processing options for Period Summary (P3312).
- Review period summaries.
- Set processing options for Capacity Planning Message Revisions (P3311).
- Review capacity planning message details.

Understanding Resource Requirements Plan Validation

Validating a resource requirements plan consists of identifying the overloaded work centers, making adjustments in forecast or resources, and generating the plan again to see whether the adjustments distributed the loads among the work centers. Repeat the steps until all of the loads at each work center are appropriate.

Resource Requirements Plans

When you generate a resource requirements plan, the system creates a time series that displays the load during each planning period for a work center. If you organize several work centers as a dispatch group according to common functions, similar operations, or steps in a routing, you can view the group to see how the production plan affects the capacity of the work centers as a group.

You can review summaries of each period to determine the load that is placed on a work center by each item or order. You can also review messages for each work center and delete, clear, or the hold messages.

If the system encounters over-capacity or under-capacity conditions, you can review the plan and identify the periods or work centers in which the conditions occur. You might have to adjust the forecast or capacity, and then generate the resource requirements plan again.

Dispatch Groups for RRP

If several work centers are organized as a dispatch group, you can review the group to determine how capacity affects all of the work centers in the group. Dispatch groups enable you to organize work centers according to common functions, similar operations, or steps in a routing.

When you review dispatch groups, you can also review messages about all the work centers in the group and use that information to redistribute the load within the group.

Work Center Load for RRP

The Resource Requirements Planning Regeneration program provides a numerical breakdown, by planning period, of the capacity load that is placed on a work center. Use this information to determine whether to adjust capacity or the forecast.

The code in the Prime Load field on the Work Center Master Revisions form determines the type of load. For example, if you enter machine and setup hours as the prime load code, the numbers that appear differ from those that appear if you enter machine hours only.

Calculations for the types of load are:

Calculation Type	Description
Rated profile	The amount of capacity that is available for a work center.
Loaded profile	The capacity that is required to meet the forecast Loaded profile = (forecast quantity * labor or machine hours) / (efficiency * utilization) * time basis code.
Percent resource used	The loaded profile divided by the rated profile.
Resource available	The rated profile minus the loaded profile.
Accumulated resources available	A running total of resources that are available.

When the system calculates the demand, it is offset by the Resource Offset value from the Capacity Resource Profile table (F3303). The Resource Offset value determines the number of days that the actual use of a work center resource should be offset from the forecasted need.

Period Summaries

In addition to reviewing the capacity load of a work center, you can also evaluate the load that is placed on a work center. Evaluate the load by period and by item. You can review:

- The items that are scheduled for a work center.
- The number of units of an item that make up the load.
- The percent of the total load on the work center that is for a specific item's forecast. The system summarizes the load by the period, using the unit of measure that you specify.

You use this information to determine whether to adjust the forecast or the capacity at the work center.

Message Detail

Each time that you generate a resource requirements plan, the system creates messages to identify work centers with loads that conflict with planned capacity. Review Message Detail indicates whether you have overload or underload conditions. Messages for each work center appear alphabetically by message type.

Use the Capacity Planning Message Revisions program (P3311) to clear, hold, or delete messages. You cannot process capacity messages. You can add remarks for each message to record the actions that you take. In addition, you can access related forms to confirm or change dates, amounts, and manufacturing data for key plants for the work center.

You can generate a plan more than once. When you regenerate a resource requirements plan, the system deletes all messages except:

- Messages that you entered manually.
- Messages that you placed on hold.

See Also

PeopleSoft EnterpriseOne Forecast Management 8.11 PeopleBook, “Working with Detail Forecasts,” Revising Detail Forecasts

Forms Used to Validate Resource Requirements Plans

Form Name	Form ID	Navigation	Usage
Work With Capacity Message Summary	W3301A	Daily Resource Requirements Planning (G3311), Review Dispatch Group	Determine how capacity affects work centers.
Review Work Center Load	W3313A	Daily Resource Requirements Planning (G3311), Review Work Center Load.	Determine required adjustments to capacity or forecast.
Work With Period Summary Review	W3312A	Daily Resource Requirements Planning (G3311), Review Period Summary	Evaluate work center load.
Work With Capacity Messages	W3313B	Daily Resource Requirements Planning (G3311), Review Message Detail	Release, clear or place messages on hold.
Capacity Message Revisions	W3311A	On Work With Capacity Messages, select Revisions from the Row menu.	Delete messages.

Setting Processing Options for Capacity Message Summary (P3301)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

These processing options specify the default processing.

1. Enter the Critical Work Center Code to be displayed or blank for all Work Centers.

Enter a code that indicates whether the work center is critical or not critical when the system calculates capacity. Values are:

N: Not a critical work center.

1: A critical work center in calculating RRP only.

2: A critical work center in calculating RCCP and CRP.

3: A critical work center in calculating RRP, RCCP, and CRP. The system also displays *Type 3* work centers when you select *Type 1* or *Type 2* in this field.

4: Not a capacity work center. The system does not include this work center in capacity planning.

Note. The data selection is a system feature that processes certain groups of information with the RRP, RCCP, and CRP programs.

2. Enter the Capacity Mode:

Enter a code indicating which planning is being used. Values are:

1: Resource Requirements

2: Rough Cut Capacity

3: Capacity Requirements

3. Enter the default Unit of Measure.

Specify a UDC (00/UM) that identifies the unit of measurement for an amount or quantity. For example, it can represent a barrel, box, cubic meter, liter, hour, and so on.

Versions

This processing option specifies the version of the program.

Work Center Revision (P3006)

Enter the version for the Work Center Revision program. If left blank, version ZJDE0001 will be used. Identifies a specific set of data selection and sequencing settings for the application. Versions may be named using any combination of alpha and numeric characters.

Reviewing Dispatch Groups

Access the Work With Capacity Message Summary form.

Dispatch Group

Enter a category code used to group work centers within an overall business unit.

For example, you can use this code to group similar machines operating out of several work centers that report to one business unit.

All W/C (all work centers)

Select the option to specify the type of processing for an event.

Critical W/C (critical work center)

Enter a code that indicates whether the work center is critical or not critical when the system calculates capacity. Values are:

N: Not a critical work center.

1: A critical work center in calculating RRP only.

2: A critical work center in calculating RCCP and CRP.

3: A critical work center in calculating RRP, RCCP, and CRP. The system also displays *Type 3* work centers when you select *Type 1* or *Type 2* in this field.

4: Not a capacity work center. The system does not include this work center in capacity planning.

Note. The data selection is a system feature that processes certain groups of information with the RRP, RCCP, and CRP programs.

Message Type	Enter a code that distinguishes different messages generated in Capacity Planning. Values are: <i>A</i> : Warning messages <i>M</i> : Manual messages <i>O</i> : Over capacity <i>U</i> : Under capacity
U/M (unit of measure)	Enter a UDC (00/UM) that indicates the quantity in which to express an inventory item, for example, <i>CS</i> (case) or <i>BX</i> (box).
Outstanding Messages	Enter a brief description of an item, remark, or explanation. A summary of the detailed messages for the work center. For example, if the work center has four under-capacity messages (message type U), this field displays <i>UUUU</i> .

Setting Processing Options for Capacity Load (P3313)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

These processing options specify the defaults for processing.

1. Enter the Capacity Mode:	Enter a code indicating which planning is being used. Values are: <i>1</i> : Resource Requirements <i>2</i> : Rough Cut Capacity <i>3</i> : Capacity Requirements
2. Enter the User Defined Code for the list of row descriptions to appear.	Enter a code that identifies the table that contains UDCs. The table is also referred to as a UDC type.
3. Enter the default Unit of Measure.	Enter a UDC (00/UM) that identifies the unit of measurement for an amount or quantity. For example, it can represent a barrel, box, cubic meter, liter, hour, and so on.
4. Enter the version of the Dispatch List program to call. The default is ZJDE0001.	Enter a user-defined set of specifications that control how applications and reports run. You use versions to group and save a set of user-defined processing option values and data selection and sequencing options. Interactive versions are associated with applications (usually as a menu selection). Batch versions are associated with batch jobs or reports. To run a batch process, you must select a version.

Versions

These processing options specify the versions of programs.

Enter the version for each program. If left blank, version ZJDE0001 will be used.

Operation Dispatch Inquiry (P31220)

Identifies a specific set of data selection and sequencing settings for the application. Versions may be named using any combination of alpha and numeric characters.

Reviewing Work Center Loads

Access the Review Work Center Load form.

Description

Enter the type of calculation used to determine the work center load: *Rated Profile, Loaded Profile, % Resource Used, Resource Available, Accumulated Resource Available.*

Setting Processing Options for Period Summary (P3312)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

These processing options specify the defaults used for processing.

1. Enter the Capacity Mode:

Enter a code indicating which planning is being used. Values are:

1: Resource Requirements

2: Rough Cut Capacity

3: Capacity Requirements

2. Enter the default Unit of Measure.

Enter a UDC (00/UM) that identifies the unit of measurement for an amount or quantity. For example, it can represent a barrel, box, cubic meter, liter, hour, and so on.

3. Enter the version of the Dispatch List to call.

Enter a user-defined set of specifications that control how applications and reports run. You use versions to group and save a set of user-defined processing option values and data selection and sequencing options. Interactive versions are associated with applications (usually as a menu selection). Batch versions are associated with batch jobs or reports. To run a batch process, you must select a version.

Versions

These processing options specify the version of the program.

1. Work Center Revision (P3006)

Identifies a specific set of data selection and sequencing settings for the application. Versions may be named using any combination of alpha and numeric characters.

If left blank, version ZJDE0001 will be used.

- | | |
|---|---|
| 2. Forecast Revision (P3460) | Identifies a specific set of data selection and sequencing settings for the application. Versions may be named using any combination of alpha and numeric characters. |
| 3. MRP/MPS Message Revision (P3411) | Identifies a specific set of data selection and sequencing settings for the application. Versions may be named using any combination of alpha and numeric characters. |
| 4. Mfg Scheduling Workbench (P31225) | Identifies a specific set of data selection and sequencing settings for the application. Versions may be named using any combination of alpha and numeric characters. |

Reviewing Period Summaries

Access the Work With Period Summary Review form.

- | | |
|---------------------|---|
| Period End | Enter the date that an item is scheduled to arrive or that an action is scheduled for completion. |
| Units | Enter a value that represents the available quantity, which might consist of the on-hand balance minus commitments, reservations, and backorders. You enter this value in the Branch/Plant Constants program. |
| Percent | Enter the percent. |
| Order Number | Enter a number that identifies an original document. This document can be a voucher, a sales order, an invoice, unapplied cash, a journal entry, and so on. |

Setting Processing Options for Capacity Planning Message Revisions (P3311)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

These processing options specify the defaults used by the program.

- | | |
|--|--|
| 1. Enter the Capacity Mode: | Use this processing option to specify the capacity mode.
1: Resource Requirements
2: Rough Cut Capacity
3: Capacity Requirements |
| 2. Enter the default Unit of Measure. | Enter a UDC (00/UM) that identifies the unit of measurement for an amount or quantity. For example, it can represent a barrel, box, cubic meter, liter, hour, and so on. |
| 3. Enter the default version of Work Center Revision (P3006). | Identifies a specific set of data selection and sequencing settings for the application. Versions may be named using any combination of alpha and numeric characters. |

Reviewing Capacity Planning Message Details

Access the Work With Capacity Messages form.

Review Message Detail - Work With Capacity Messages

Select Find Add Close Form Row Tools

Work Center Weld Work Center Branch

Unit of Measure Hour ☐ Include Cleared

Records 1 - 1 Customize Grid

	Msg Type	Message	Total Units	UM	Percent	Period End	Planner Remark	Workcenter Branch
☒	U	Under Capacity		HR				M30

Work With Capacity Messages form

Message Type

Enter a code that distinguishes different messages generated in Capacity Planning. Values are:

A: Warning messages

M: Manual messages

O: Over capacity

U: Under capacity

Message

Review the associated message.

To clear a message, select it and select Clear from the Row menu.

To view cleared messages, check the Include Cleared box and click Find.

To hold or release a message, select it and select Hold/Release from the Row menu. Messages on hold are highlighted. The system retains held messages until you manually release, clear, or delete them.

Total Units

Enter a value that represents the available quantity, which might consist of the on-hand balance minus commitments, reservations, and backorders. You enter this value in the Branch/Plant Constants program.

To delete a message, access the Capacity Message Revisions form, select the message and click Delete.

Planner Remark

Enter a remark about an item.

CHAPTER 8

Planning Material Requirements

This chapter provides an overview of material requirements planning, lists the prerequisite, and discusses how to:

- Analyze planning input
- Generate material requirements plans
- Analyze planning output
- Process planning output

Understanding Material Requirements Planning

Single-facility planning encompasses the generation of a distribution or production plan for one facility. All supply and demand calculations occur within a single branch/plant. If an item is available in other branch/plants, it is not considered during single-facility planning.

Analyzing Planning Input

This section provides an overview of planning input and discusses how to:

- Set processing options for Net Change Review (P3402).
- Review items for net change.

Understanding Planning Input

Prior to generating a requirements plan, planners review input data that is used by the planning system for accuracy and changes. Data that is used by requirements planning is derived from forecasts, bills of material, and item net change activities.

If forecasts change in response to market conditions, these changes affect the requirements plan generation. An inquiry on the bill of material provides information about item lead time and part availability.

Item Net Change

Use the Net Change Review program (P3402) to review items that have changed, either through planned or unplanned activities throughout the Requirements Planning system. You can locate a selected group of items by planner number, planning family, branch/plant, and specific planning codes. You can access related time series, inventory, and scheduling information forms for any of the items.

If an item has changed, it appears on the Work with Net Change and Summary form with a *Y* in the Net Change field.

This table identifies the programs that automatically activate the net change flag:

Program	Net Change
Parts List Revisions	Any addition, change, or deletion activates the flag for that item. If a branch changes for an item, the system updates both old and new locations.
Parts List Substitutes	Any selection activates the flag for both the selected item and the item being substituted.
Work Order Entry	Any addition or deletion activates the flag for the item. If you change a request date for an item or quantity, the system activates the flag for the item. If an item status changes to 99, and the quantity ordered is not equal to the quantity completed, the system activates the flag for that item. If a branch changes for an item, the system updates both old and new locations.
Work Order Inventory Issues	Only over-issues activate the flag.
Work Order Inventory Completions	If an item status changes to 99 and the quantity ordered does not equal the quantity completed, the system activates the flag for that item.
Inventory Adjustments	The system activates the flag for any item with an adjusted inventory.
Inventory Transfers	When inventory is transferred from one branch to another, the system activates the flag for the affected items in both locations.
Bill of Materials Master	Any addition or deletion of a component item activates the flag for the parent of the changed component. If the item, quantity per, scrap, or effectivity dates change for any component item, the system activates the flag for the parent of that component.
Where Used Bill of Material Update	Any change to a component item activates the flag for the parent of the changed component.
Detail Message Review	If you take action on an order message, and the quantity, start date, or request date changes, the system activates the flag for the item. If you take action on an expedite or defer message, and the recommended start date or recommended request date changes, the system activates the flag for the item.
Forecast Revisions	Any addition, change, or deletion activates the flag for the item.
Manufacturing Data Revisions	Any addition, change, or deletion activates the flag for the item.

Program	Net Change
Repost Open Quantities	A repost cancels the committed quantity of any component inventory on work orders that have a status equal to the status that is indicated in the processing option (usually status 99). The repost activates the flag for any canceled inventory.
Leadtime Rollup	This program can change critical manufacturing data in the F4102 table. If changed, the flag is updated for an item.
Sales Order Entry	Any addition, change, or deletion activates the flag for the item.
Purchase Order Entry	Any addition, change, or deletion activates the flag for the item.
Net Change Review	Any manual update to the Net Change field activates the flag for the item.

Additionally, any transaction that causes a change in supply or demand during the next MRP run updates the net change flag in the F4102 table. Examples include:

- You have taken action on an Order message, and either the quantity, start date, or requested date changes.
- You have taken action on an Expedite or Defer message, and the recommended start date or recommended requested date changes.
- You cancel an order.

See Also

PeopleSoft EnterpriseOne Forecast Management 8.11 PeopleBook

PeopleSoft EnterpriseOne Shop Floor Management 8.11 PeopleBook

Prerequisite

Validate a resource requirements plan.

See [Chapter 7, “Planning Production Capacity,” Generating Resource Requirements Plans, page 63.](#)

Form Used to Analyze Planning Input

Form Name	Form ID	Navigation	Usage
Work With Net Change Summary	W3402A	Single Site Periodic Planning Operations (G3422), Net Change Review	Verify items with changes that affect the material requirements plan generation.

Setting Processing Options for Net Change Review (P3402)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

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Defaults

This processing option specifies the default used by the program.

1. Planning Code

Enter a planning code, or leave this field blank to include all planning codes.

A code that indicates how Master Production Schedule (MPS), Material Requirements Planning (MRP), or Distribution Requirements Planning (DRP) processes this item.

Codes are:

0: Not planned by MPS, MRP, or DRP.

1: Planned by MPS or DRP.

2: Planned by MRP.

3: Planned by MRP with additional independent forecast.

4: Planned by MPS, parent in planning bill.

5: Planned by MPS, component in planning bill.

These codes are hard-coded.

Reviewing Items for Net Change

Access the Work With Net Change Summary form.

Net Change Review - Work With Net Change Summary

Close View Form Row Tools

View Only Changed Items Branch/Plant M30 Planning Code *

Planner Number * Master Planning Family *

Records 1 - 10 Customize Grid

Net Chg	2nd Item Number	Item Description	Short Item	3rd Item Number	Planner Number
☐ Y	1001	Bike Rack - Trunk Mount	60003	1001	8444
☐ Y	210	Mountain Bike, Red	60011	210	8444
☐ Y	2200	Tire Pump	60290	2200	7500
☐ Y	2201	Check Valve Assembly	60302	2201	8444
☐ Y	2202	O-Ring	60311	2202	8444
☐ Y	2205	Cap	60329	2205	8444
☐ Y	2206	Piston	60337	2206	8444
☐ Y	2208	Handle	60345	2208	8444
☐ Y	2203	Threaded Tube	60353	2203	7500
☐ Y	2204	Plunger	60361	2204	7500

Work With Net Change Summary

Planner Number

Enter the address number of the material planner for this item.

Net Change

Review the net change value.

If an item has changed, it appears on the Work with Net Change and Summary form with a Y in the Net Change field.

You can update the net change flag from the Net Change Review program. Set the security parameters so that only appropriate personnel, such as the master scheduling supervisors, have access.

Generating Material Requirements Plans

This section provides an overview of material requirements planning and discusses how to set processing options for MRP/MPS Requirements Planning (R3482).

Understanding Master Schedules

You can generate a master schedule for a single item or all items. When you generate a master schedule, the system evaluates selected information, performs calculations, and recommends a time-phased planning schedule for all selected items. At a minimum, you should generate a master schedule weekly to keep the plan current.

DRP Regeneration and MPS Regeneration use versions of the MRP/MPS Requirements Planning (R3482) program to produce a single-level DRP or MPS schedule for all items that meet the data selection criteria. The program:

- Reads the selected forecast for sales orders.

- Uses data from the DRP/MPS/MRP inclusion rules to calculate requirements for master planned items.
- Does not explode planned orders to the bill of material components.

The MRP Regeneration version of the MRP/MPS Requirements Planning program explodes planned orders for bill of material items to produce a multilevel material plan.

Before the program generates a schedule, it deletes the message and time series tables for the selected items.

When you set up the versions to generate a planning schedule, you should consider:

- Data selection: Base the data selection on branch/plant, category codes (usually master planning family), and planning code.

Any selection from based-on table fields can be processed.

- Data sequence: Copy the data sequence from the report example.
Do not change this sequence, or unpredictable results might occur.

Understanding Net Change Planning Schedules

You can set the Generation Mode processing option to use net change processing if you want to have Regeneration and Net Change versions. With net change processing, the system includes only those items that have changed since the last generation. Use the Net Change Review program to determine which items to include in the net change generation.

DRP Net Change, MPS Net Change, and MRP Net Change are versions of the MRP/MPS Requirements Planning program. Use a processing option to specify net change. You can further define the data selection to include only specific items that appear on the Work With Net Change Summary form. When you run DRP Net Change, MPS Net Change, or MRP Net Change, the system:

- Evaluates selected information.
- Performs calculations.
- Generates a time series and messages for the selected items.

The system selects items from the Net Change Review program that are based on:

- Bill of material changes.
- Inventory transactions.
- Forecast adjustments.
- Work order changes.
- Purchase order changes.
- Lead time roll-up that results in new lead time values.
- Sales order changes.
- Changes in parent order requirements.

You should run net change on a regular basis to continually update the schedule. The program writes to the Action Message, Pegging, and Time Series tables. You can view the information that is generated by this program online by using the time series and message review programs.

Understanding Material Requirements Planning

Use the MRP- Gross Regeneration version of MRP/MPS Requirements Planning to produce a single-facility MRP planning schedule for the items that you select. Alternatively, you can use the MRP - Net Change version of MRP/MPS Requirements Planning to produce a single-facility MRP planning schedule. You can generate a material requirements plan for:

- A single item.
- All items.
- Only items that are affected by transactions since the last generation.

When you generate a material requirements plan, the system evaluates selected information, performs calculations, and recommends a time-phased replenishment plan for all selected items. MRP regeneration uses the same programs as DRP/MPS regeneration.

MRP output consists of information in the time series and action messages, and pegging. Use the time series information to decide whether to accept the planning that is suggested by the system or to override it. You should review the action messages for individual item numbers to determine which action, if any, that you need to take. Use pegging to identify parent demand for components.

MRP runs most effectively when you ensure the accuracy and validity of the following planning information:

Planning Information	Description
Master schedule	Ensure that the master schedule is at least 95 percent accurate. Accuracy is measured by comparing the creation of an end product to the performance of the schedule.
Bill of material	Ensure that the bill of material is at least 98 percent accurate and contains the correct components and quantities. Accuracy is measured by comparing how the item is built in the factory to the correct components and quantities that are contained in the bill of material.
Inventory	Ensure that the inventory count is at least 95 percent accurate. You achieve this accuracy through the cycle count process.
Lead times	Ensure that the lead times are valid. The system provides planned lead times. In runtime, the actual time to complete an order can vary.

Bill of Material

MRP uses the bill of material to explode demand to all component items. If a parts list does not exist for a work order, MRP generation uses the standard bill of material to explode demand.

You should define a bill of material type M (standard manufacturing bill) for work order headers without a parts list and for parent planned orders. The MRP generation uses bill type M to schedule items according to how the product is built.

Low-Level Code

The system uses the low-level code to determine parent and component relationships. The system explodes parent demand to the components. MRP generation explodes lower-level demand only for manufactured items. The system does not explode demand to levels below a purchased item, even if that item has a bill of material.

Generation Type

You must use generation types 4 and 5 to generate a master planning schedule for MRP items. If the status of MPS is frozen, generation type 5 explodes only the component items of the master scheduled item. Select generation type 4 to explode MPS items and component items.

Frozen Orders

If you identify work orders or purchase orders for an item as frozen, the program does not replan any orders for the item. Instead, you receive a frozen order message for that item.

Data Selection

To run an MRP regeneration, base the selection on branch/plant, category codes, and planning code. The system can process any selection from based-on table fields.

To run a net change generation, set the net change flag to *I* to select items that have changed since the last generation of the program.

Setting Processing Options for MRP/MPS Requirements Planning (R3482)

From Single Site Periodic Planning Operations, select DRP Regeneration, MPS Regeneration, or MRP Regeneration. For a net change version, select DRP Net Change, MPS Net Change, or MRP Net Change.

Horizon

These processing options control the dates and time periods that the program uses when creating the plan.

- | | |
|------------------------------------|--|
| 1. Generation Start Date | Use this processing option to specify the date that the program uses to start the planning process. This date is also the beginning of the planning horizon. |
| 2. Past Due Periods | Enter a value. The program includes supply and demand from this number of periods prior to the generation start date. Values are:
<i>0</i> : 0 periods (default)
<i>1</i> : 1 period
<i>2</i> : 2 periods |
| 3. Planning Horizon Periods | Use these processing options to define the periods used in the planning horizon. |
| Number of planning days | Use this processing option to specify the number of days to be included in the plan. For example, when you view the time series, you see daily data for the number of planning days, then weekly data for the number of planning weeks, then monthly data for the number of planning months. |
| Number of planning weeks | Use this processing option to specify the number of weeks to be included in the plan. For example, when you view the time series, you see daily data for the number of planning days, then weekly data for the number of planning weeks, then monthly data for the number of planning months. |
| Number of planning months | Use this processing option to specify the number of months to be included in the plan. For example, when you view the time series, you see daily data for the number of planning days, then weekly data for the number of planning weeks, then monthly data for the number of planning months. |

Parameters

These processing options control processing criteria.

It is important to understand the choice of generation type:

Generation type 1 = single-level MPS/DRP. This generation type can be used either in a distribution environment for purchased parts with no parent and component relationship or in a manufacturing environment with parent and component relationships.

The program produces a time series for each item that is specified in the data selection with a planning code of 1 on the Plant Manufacturing Data tab on the Additional System Information form, whether the item is manufactured or purchased.

For manufactured items, no demand is exploded down to the components. Use generation type 1 if you want to process only the master scheduled end items first. Thus, you can stabilize the schedule before placing demand on the components.

No pegging records are created.

Generation type 2 = planning bill. Use this generation type to plan for items that have a planning bill of material. A planning bill has a pseudo parent item that is never actually manufactured; rather, it is used to represent the average composition of a group of products.

This generation type explodes a parent forecast to its components by multiplying the parent's forecast by the feature planned percent (from the bill of material) for each component. The program then creates a new forecast for the components. For example, a pseudo parent item bike might have a forecast of 1,000. The program distributes that forecast into a forecast of 100 mountain bikes, 500 touring bikes, and 400 commuter bikes.

This information must be set up correctly to use this generation type:

- The pseudo parent item must have a planning code of 4 on the Additional System Information form, Plant Manufacturing tab.
- The components must have a planning code of 5.
- The feature planned percents must be set up correctly in the bill of material.
- You must specify in processing options the forecast type to read from the parent, and to create for the components.

Generation type 3 = multilevel MPS. This generation type is an alternative to generation type 1, and performs a complete top-to-bottom processing of master scheduled items. The program explodes demand for all parent items that you specify in the data selection down to the components. You must specify all of the items to be processed in the data selection, not just the parent items. The program also creates pegging records.

Generation type 4 = MRP with or without MPS. This generation type has the same functionality as generation type 3. If you have done a complete generation and stabilized the master schedule, you can limit data selection to MRP items (with planning codes of 2 or 3), thereby reducing processing time. This action is possible because demand from the master scheduled items is still stored in the F3412 table.

Generation type 5 = MRP with frozen MPS. This generation type freezes the master schedule after it has been stabilized. Before running this generation type, you should make all of the necessary adjustments to master scheduled items and release orders to cover the demand. This generation type freezes the entire planning horizon similar to the way the freeze fence freezes a part of the horizon. The results of running this generation type are:

- No new orders will be planned.
- No messages for existing orders will be created.

- The adjusted ending available quantity is allowed to go negative.
- Demand is only exploded down to components from existing work orders.

No -PWO demand from parent items exists—only -FWO demand.

- | | |
|--|--|
| 1. Generation Mode | Enter the generation mode. A gross regeneration includes every item in the data selection. A net change includes only those items in the data selection that have changed since the last time you ran the program. Values are:

1: Net change
2: Gross regeneration |
| 2. Generation Type | Enter the generation type. Please see the help for the Parameters tab for detailed information. Values are:

1: single-level MPS/DRP.
2: planning bill.
3: multi-level MPS.
4: MRP with or without MPS.
5: MRP with frozen MPS. |
| 3. UDC Type | Use this processing option to specify the UDC table (system 34) that contains the list of quantity types to be calculated and written to the F3413 table. The default value is <i>QT</i> . |
| 4. Version of Supply/Demand Inclusion Rules | Use this processing option to define which version of supply/demand inclusion rules the program reads. These rules define the criteria that are used to select items for processing. |

On Hand Data

These processing options control how the program calculates on-hand inventory.

- | | |
|--|---|
| 1. Include Lot Expiration Dates | Use this processing option to specify whether the system considers lot expiration dates when calculating on-hand inventory. For example, if you have 200 items on hand with an expiration date of August 31, 2005, and you need 200 on September 1, 2005, the program does not recognize the expired lot and creates a message to order or manufacture more of the item to satisfy demand. Values are:

Blank: Do not consider lot expiration dates when calculating on-hand inventory.
1: Consider lot expiration dates when calculating on-hand inventory. |
| 2. Safety Stock Decrease | Use this processing option to specify whether to plan based on a beginning available quantity from which the safety stock quantity has been subtracted. Values are:

Blank: Do not decrease.
1: Decrease. |
| 3. Receipt Routing Quantities | Enter the following quantities. |

Quantity in Transit

Enter a value for the quantity.

In a manufacturing environment, sometimes it is necessary to establish where stock is, in order to determine whether it is available for immediate use. Enter *I* if you want quantities in transit to be included in the Beginning Available calculation on the time series. Otherwise, the program includes these quantities in the In Receipt (+IR) line of the time series. The quantities are still considered available by this program. The difference is only in how you view the quantities in the time series. Values are:

Blank: Do not include in on-hand inventory.

I: Include in on-hand inventory.

Quantity in Inspection

Enter a value for the quantity.

In a manufacturing environment, sometimes it is necessary to establish where stock is, in order to determine whether it is available for immediate use. Enter *I* if you want quantities in inspection to be included in the Beginning Available calculation. Otherwise, the program includes these quantities in the In Receipt (+IR) line of the time series. The quantities are still considered available by this program. The difference is only in how you view the quantities in the time series. Values are:

Blank: Do not include in on-hand inventory.

I: Include in on-hand inventory.

User Defined Quantity 1

Enter a value.

In a manufacturing environment, sometimes it is necessary to establish where stock is, in order to determine whether it is available for immediate use. Enter *I* if you want these user defined quantities (defined on the Receipt Routings Revisions form in the Update Operation 1 field) to be included in the Beginning Available calculation. Otherwise, the program includes these quantities in the In Receipt (+IR) line of the time series. The quantities are still considered available by this program. The difference is only in how you view the quantities in the time series. Values are:

Blank: Do not include in on-hand inventory.

I: Include in on-hand inventory.

User Defined Quantity 2

Enter a value.

In a manufacturing environment, sometimes it is necessary to establish where stock is, in order to determine whether it is available for immediate use. Enter *I* if you want these user defined quantities (defined on the Receipt Routings Revisions form in the Update Operation 2 field) to be included in the Beginning Available calculation. Otherwise, the program includes these quantities in the In Receipt (+IR) line of the time series. The quantities are still considered available by this program. The difference is only in how you view the quantities in the time series. Values are:

Blank: Do not include in on-hand inventory.

I: Include in on-hand inventory.

4. Lot Hold Codes (up to 5)

Use this processing option to specify the lots to be included in the calculation of on-hand inventory. You can enter a maximum of five lot hold codes (41/L).

Blank: Include no held lots in calculation of on-hand inventory.

*: Include all held lots in calculation of on-hand inventory.

5. Include Past Due Rates as a supply

Use this processing option to specify whether the system considers open quantities from rate schedules that are past due as a supply. If you enter a *I* in this processing option, the system includes these quantities in the calculation of the rate schedule unadjusted (+RSU) and the rate schedule adjusted (+RS) quantities. Values are:

Blank: Do not consider past due orders as a supply.

I: Consider past due orders as a supply.

Forecasting

These processing options control what forecast types the program reads as demand, as well as the forecast consumption that is used by the system.

1. Forecast Types Used (up to 5)

Enter up to 5 forecast types.

Forecasts are a source of demand. You can create forecasts using 12 different forecast types (34/DF) within the Forecasting system. One is considered the Best Fit (BF) type compared to an item's history of demand. Use this processing option to define which forecast quantities created by which forecast type are included in the planning process. Enter multiple values with no spaces—for example: *0102BF*.

2. Forecast Type For Planning Bills/Forecast Consumption By Customer

Use this processing option to specify the forecast type (UDC 34/DF) that the system uses to create forecasts for components when you explode generation type 2 planning bills. This value must equal that of the Forecast Types Used processing option for this feature.

When you set the Forecast Consumption Logic processing option to 2 (forecast consumption by customer), this processing option specifies the forecast type (34/DF) that is used to create a forecast for the actual daily demand by the customer. This value cannot equal the value for the Forecast Types Used processing option.

3. Forecast Consumption Logic

Use this processing option to specify whether to use forecast consumption logic during the requirements planning processing. Values are:

Blank: Do not use forecast consumption.

I: Use forecast consumption. This value invokes forecast consumption logic applied to aggregate sales order and forecast quantities within the forecast consumption period for selected items with a planning fence rule equal to H.

2: Use forecast consumption by customer. This value invokes forecast consumption logic applied to sales order and forecast quantities for individual customers. Use this value in conjunction with the Forecast Type for Planning Bills / Forecast Consumption by Customer processing option.

4. Default Customer Address Relationship for Forecast Consumption by Customer

Use this processing option to specify which address book number on the sales order the system uses for calculation when you use forecast consumption by customer logic. Values are:

1: Use the ship to address book number.

2: Use the sold to address book number.

Document Types

These processing options establish default document types.

- | | |
|---------------------------|--|
| 1. Purchase Orders | Displays the document type related to the order.
When you receive messages related to purchase order creation, this document type appears as the default. The default value is <i>OP</i> . |
| 2. Work Orders | Displays the document type related to the order.
When you receive messages related to work order creation, this document type appears as the default. The default value is <i>WO</i> . |
| 3. Rate Schedules | Displays the document type related to the order.
When you receive messages that relate to rate schedule creation, this document type appears as the default. Enter the UDC 00/DT of the document type for the rate schedule that you want to use. |

Lead Times

Use safety lead times to allow extra time for delays in receipt or production. Use damper days to filter out unwanted messages.

- | | |
|--|--|
| 1. Purchased Item Safety Lead Time | Enter a value to be used in the lead time calculation.
For items with stocking type P, the program adds the value that you enter here to the item's level lead time to calculate the total lead time. |
| 2. Manufactured Item Safety Lead Time | Enter a value to be used in the lead time calculation.
For items with stocking type M, the program adds the value that you enter here to the item's level lead time to calculate the total lead time. |
| 3. Expedite Damper Days | Use this processing option to specify the number of days before the system generates an Expedite message. If the number of days between the date when the order is actually needed and the due date of the order is less than the number of days entered here, the system does not generate an Expedite message. |
| 4. Defer Damper Days | Use this processing option to specify the number of days before the system generates a Defer message. If the number of days between the date when the order is actually needed and the due date of the order is less than the number of days entered here, the system does not generate a Defer message. |

Performance

These processing options define output, and increase or decrease processing time.

- | | |
|--|---|
| 1. Clear F3411/F3412/F3413 Tables | Use this processing option with extreme caution! If you enter <i>1</i> , the system purges records in the F3411, F3412, and F3413 tables.

Access to this program should be limited. If multiple users run this program concurrently with this processing option set to <i>1</i> , a record lock error results and prevents complete processing. Values are:

Blank: Do not clear tables.
<i>1</i> : Clear tables. |
|--|---|

2. Input B/P Where Planning Tables Will Be Cleared

Use this processing option to specify which branch/plant records in the F3411, F3412, and F3413 tables are purged.

Note. This option is only valid when the Clear F3411/F3412/F3413 Tables processing option on the Performance tab is set to *I* and the Delete Branch/Plant processing option has a valid branch/plant.

This processing option enables a preprocess purge of these tables. If this processing option is not enabled or set to Blank, the system purges records for a given branch/plant and item as you plan the item. Depending on processing option combinations, these scenarios can occur:

Example 1:

Clear F3411/F3412/F3413 Tables is set to *I*.

(a) Delete Branch/Plant is set to Blank.

All records from the three tables will be prepurged.

(b) Delete Branch/Plant contains a valid branch/plant number.

Records for all the items that belong to the valid branch/plant will be prepurged from the three tables.

(c) Delete Branch/Plant contains an invalid branch/plant number.

No records will be prepurged from the three tables.

Example 2:

Clear F3411/F3412/F3413 Tables is set to Blank

Delete Branch/Plant is not active.

No records from any of the three tables will be prepurged.

3. Initialize MPS/MRP Print Code.

Enter a value to initialize records in the F4102 table.

If you enter *I* in this processing option, the program initializes every record in the F4102 table by setting the Item Display Code (MRPD) to Blank.

If you leave this field blank, processing time is decreased. The system does not clear the records in the F4102 table.

Regardless of how you set this processing option for each item in the data selection, the MRPD field is updated as follows:

- *I* if messages were not created.
- *2* if messages were created.

The Print Master Production Schedule program (R3450) enables you to enter data selection based on the MRPD field. Values are:

Blank: Do not initialize the F4102.

I: Initialize the F4102.

4. Messages And Time Series For Phantom Items

Use this processing option to specify whether the program generates messages and time series for phantom items. Values are:

	Blank: Do not generate.
	<i>/</i> : Generate.
5. Ending Firm Order Status	Use this processing option to specify the work order status at which messages are no longer exploded to components. If you leave this field blank, all messages are exploded to components.
6. Extend Rate Based Adjustments	Use this processing option to specify whether adjustments for rate based items are exploded to components, thereby creating messages for the components. Values are: Blank: Do not extend. <i>/</i> : Extend.
7. Closed Rate Status	Enter the status of closed rates. When planning for a rate based item, the program does not consider rate orders at this status or higher.
8. Set Key Definition For Table F3411	Use this processing option to enable the system to run multiple MRP/MPS jobs concurrently. The value that you enter specifies the range for the number of records in the F3411 and F3412 tables for a given run. This value must be large enough to include the number of records that will be generated for the table. For example, if you enter a value of 8 for the first run and 10 for the second run, the range of records that the system reserves for two simultaneous MRP/MPS runs would be as follows: First run: The system reserves records in the range of [1] to [1×10^8], or 1 through 100,000,000. Second run: The system reserves records in the range of [$1 \times 10^8 + 1$] to [2×10^{10}], or 100,000,001 through 20,000,000,000.
	Note. The values that you enter are the exponents in the previous calculations. Enter a value from 7 to 14. If you do not enter a value, the system uses 10.
	This processing option is applicable only when a subsequent MRP/MPS job is submitted while an existing job is currently running. The number of records that the MRP/MPS Requirements Planning program and Master Planning Schedule - Multiple Plant program (R3483) generate is based on the values that you enter in this processing option. You determine the optimum number of records that the system includes. All values should be the same for all versions. If version settings differ, the system might generate unpredictable results.
9. Set Key Definition For Table F3412	Use this processing option to enable the system to run multiple MRP/MPS jobs concurrently. The value that you enter specifies the range for the number of records in the F3411 and F3412 tables for a given run. This value must be large enough to include the number of records that will be generated for the table. For example, if you enter a value of 8 for the first run and 10 for the second run, the range of records that the system reserves for two simultaneous MRP/MPS runs would be as follows: First run: The system reserves records in the range of [1] to [1×10^8], or 1 through 100,000,000.

Second run:

The system reserves records in the range of $[1 \times 10^8 + 1]$ to $[2 \times 10^{10}]$, or 100,000,001 through 20,000,000,000.

Note. The values that you enter are the exponents in the previous calculations. Enter a value from 7 to 14. If you do not enter a value, the system uses *10*.

This processing option is applicable only when a subsequent MRP/MPS job is submitted while an existing job is currently running. The number of records that the MRP/MPS Requirements Planning program and Master Planning Schedule - Multiple Plant program generate is based on the values that you enter in this processing option. You determine the optimum number of records that the system includes. All values should be the same for all versions. If version settings differ, the system might generate unpredictable results.

10. Suppress Time Series

Use this processing option to specify whether the MRP/MPS Requirements Planning program (R3482) generates the time series. Values are:

Blank: Generate the time series.

1: Do not generate the time series.

Note. Performance improves if the system does not generate the time series.

11. Planning Control UDC Type

Use this processing option to specify the UDC table in system 34 that contains the list of planning control flags. The default value is *PC*.

Mfg Mode

If you use process manufacturing, enter *1* to generate the plan that is based on the forecasts of the co-products or by-products, or both, for the process. The program then creates messages for the process.

1. Process Planning

Enter a value to specify plan generation for process items.

If you use process manufacturing, enter *1* to generate the plan based on the forecasts of the co-products and by-products for the process. The program then creates messages for the process. Values are:

Blank: Discrete

1: Process

2. Project Planning

Use this processing option to specify whether the system includes supply and demand from items that are associated with a project. Project-specific items have a stocking type of *P*. Values are:

Blank: Do not include items associated with projects.

1: Include items associated with projects.

3. Configurator Components Table

Use this processing option to specify whether the system processes configurator components from the F3215 table and adds them to the F4211 and F3111 tables. If you enter a *1* in this processing option, the system processes the items on the F3215 table as demand items.

Blank: Do not process items from the F3215 table.

1: Process items from the F3215 table.

Parallel

These processing options specify the number of processors that the system uses during parallel processing. These options also specify whether the system runs preprocessing during parallel processing.

- | | |
|------------------------------------|--|
| 1. Number of Subsystem Jobs | Use this processing option to specify the number of subsystems in a server.
The default is 0 (zero). |
| 2. Pre Processing | Use this processing option to specify whether the system runs preprocessing during parallel processing. During preprocessing, the system checks supply and demand and plans only the items within supply and demand. Preprocessing improves performance when you run MRP and is valid only when the number of items actually planned is less than the total number of items in the data selection. Values are:

Blank: The system does not run preprocessing.
1: The system runs preprocessing. |

Analyzing Planning Output

This section provides an overview of planning output, list the prerequisite, and discusses how to:

- Set processing options for MPS Time Series (P3413).
- Review the time series.
- Review messages for a planning family.
- Set processing options for MRP/MPS Detail Message Revisions (P3411).
- Review detail messages.
- Set processing options for Pegging Inquiry (P3412).
- Review pegging demand.

Understanding Planning Output

When generating a planning schedule, the planning system evaluates selected supply and demand information, performs calculations, and recommends a time-phased planning schedule for selected items. Planners are presented with action and warning messages that suggest new orders or the rescheduling of existing orders. Other planning tools include supply and demand inquiry and pegging records.

MPS/DRP Time Series

The time series is a record of time-phased supply and demand netting for selected items. The system retrieves this data from the most recent generation or net change that has been run.

Use the DRP or MPS versions of the MPS Time Series program (P3413) to review the master schedule and decide whether to accept the planning that the system suggests or to override it. You should review the action messages for individual item numbers to determine what action, if any, to take.

Use processing options in the MRP/MPS Requirements Planning program to set up daily, weekly, or monthly time periods.

The DRP and MPS time series contain data such as:

Data	Explanation
Quantities for specific time periods	You can review: • Time-phased inventory activity in any unit of measure. • Available-to-promise quantities in any valid unit of measure. • Time fences and the lead time at the item level. • Cumulative and manufacturing lead time occurrences.
Adjusted or unadjusted period quantities	Period quantities are either adjusted or unadjusted. The calculations for adjusted quantities assume that the user will process the messages. The calculations for unadjusted quantities assume that the user will not process the action messages. The U at the end of a quantity type indicates that period quantities are unadjusted.
Forecast consumption	When you use planning time fence rule G, C, or H, which calculate demand based on the greater of forecast or customer orders, the forecast is consumed. Consumed means that the forecast is reduced by the amount of the customer demand in the same or related period. Note. The time series displays the aggregate demand and forecast for all customers. If you are using forecast consumption by customer functionality, the aggregate forecast and customer demand quantities might appear out of balance from standard forecast consumption.

Data	Explanation
Various display formats	You can display the time series in different formats. For example, you can: • Summarize all demand lines into one demand line. • Summarize all supply lines into one supply line. • Select rows of information to select or suppress. • Toggle between two different quantity type tables as set up in the processing options.
Access to other programs	You can access other programs while reviewing the time series: • Supply/Demand Inquiry and Pegging Inquiry to determine where higher level demands are being generated. • MRP/MPS Detail Message Revisions to review message detail and take any appropriate actions. • Additional System Info to verify item setup details. • Detail Forecast Revisions to review item forecasts and sales history. • Rate Schedule Revisions to review item rate schedules. • MPS or DRP generation to run an online regeneration for the displayed item.

MRP Time Series

The Time Series - MRP inquiry is the same program as that used to inquire on the DRP/MPS time series. Use the appropriate version of the MPS Time Series program (P3413) to review the item series for the material requirements plan. You can vary the settings in the processing options to accommodate the different requirements for MRP.

Use the MPS/MRP/DRP Key Window program (P34KEY) to review the quantity types that are generated for the material requirements plan. These quantity types include:

Quantity Type	Explanation
Planned order (+PLO)	Represents recommended replenishment orders for an item.
Planned work order (-PWO)	Represents demand for components that are required from the parent's planned work order (+PLO).
Work order (+WOU) (+WO/WOU)	Represents a supply manufacturing order for the component that has a work order header. The -WOU is the work order as it is in the F4801 table. +WO is the work order if you processed all of the applicable action messages.
Firm work order (-FWO)	Represents demand for components that will be consumed from the parent's released work order (+WOU).

Time Fence Display Codes

Item lead time and time fence days are displayed on the time series. Time fences and lead times are noted in their respective time periods as follows:

Code	Description
L	Level lead time
M	Manufacturing lead time
C	Cumulative lead time
F	Freeze fence
P	Planning fence
D	Message Display fence

Planning Family Messages

You can manually review and process messages using the MRP/MPS Detail Message Revisions program (P3411) or automatically process the messages using the MRP/MPS Detail Message Processing program (R3411).

The action messages for DRP, MPS, and MRP are defined in UDC table 34/MT. The character codes are hard-coded. Do not change the character codes in this list.

Each time that you generate a material requirements plan, the system generates action messages to identify situations in which demand requires:

- Changing the existing supply orders.
- Placing new orders.

Use the Message Detail - MRP version of the MRP/MPS Detail Message Revisions program to review exception messages from the latest planning generation. These messages might help you evaluate planned and existing orders. You can review the most critical messages first and review other messages in the order that you process them.

Note. For Demand Flow® Manufacturing (DFM) items only, set the Suppress MRP Messages option in the Item Branch program (P41026) to suppress the display and processing of MRP messages. The Suppress MRP Messages option is used in DFM where assemblies and sub-assemblies are inclusive of the line design daily planning, but messages are still needed to drive lower-level demand. If you set the option to suppress MRP message processing, you will not see or be able to process MRP messages for DFM items.

Detail Messages

Detail messages include all of the messages from the Message Summary program (P3401). After you generate master schedule output, you review the action messages for the individual item numbers. After you review each message, you can perform one of these actions:

- Place the message on hold.
- Clear the message.
- Delete the message.

You can delete any message that you have reviewed but did not process.

- Process the message.

Work Order Output from DRP/MPS/MRP

This table describes how the system uses document types, quantity types, and work order codes during the MRP generation process:

Document Type (Time Series)	Other Codes	Description	Component Demand
WP (+PLO)	Status = P (planned)	Planned orders. WP is a system-generated document type without a header in the F4801 table. DRP/MPS/MRP automatically changes schedule dates and quantities each time that you run the program.	-PWO
WO (+WO does not always equal +WOU in schedule dates or quantities)	Status = 10 (firm)	Firm orders. A header is in the F4801 table. DRP/MPS/MRP creates messages that require planner action to balance supply and demand. For component demand, the system assumes that the planner will take action.	-FWO/-FWOU. Message type A warns about parent supply/demand imbalances. -FWO does not always equal -FWOU in schedule dates or quantities.
WO (+WO does not always equal +WOU in schedule dates or quantities)	Status = 40 (firm)	Firm orders that have parts lists and routing instructions attached. DRP/MPS/MRP creates messages that require planner action to balance supply and demand. For component demand, the system assumes that the planner will take action.	-FWO/-FWOU. Message type A warns about parent supply/demand imbalances. -FWO does not always equal -FWOU in schedule dates or quantities.
WO (+WO does not always equal +WOU in schedule dates or quantities)	Status = 41 (firm planned order)	Firm orders with firm plans. These are orders that have been planned by a generation of DRP/MPS/MRP, specifying status 41 in the Ending Work Order Status processing option. DRP/MPS/MRP creates messages that require planner action to balance supply and demand. For component demand, the system assumes that the planner will not take action. The messages have FPO planner remarks.	-FWO/-FWOU. Message type S warns about supply/demand imbalances for FPO parent. -FWO always equals -FWOU in schedule dates or quantities.

Document Type (Time Series)	Other Codes	Description	Component Demand
WO (+WO equals +WOU in schedule dates or quantities)	Inside freeze fence (any status code)	All firm orders inside freeze fence. DRP/MPS/MRP do not display action messages inside the freeze fence. The program creates message type A warnings to indicate a supply and demand imbalance inside the freeze fence. The program generates an action message outside the freeze fence to correct the supply/demand imbalance.	-FWO/-FWOU. The program does not create change messages from the parent demand.
WO (+WO equals +WOU in schedule dates or quantities)	Freeze code on work order header (any status code)	Frozen firm orders. DRP/MPS/MRP does not create action messages for these work orders. The program creates message type A and F warnings. The program creates messages for new orders to satisfy supply/demand imbalances.	-FWO/-FWOU. The program does not create change messages from the parent demand.

MRP Pegging Demand

Use Pegging Inquiry (P3412) to determine, or peg, the source of demand for dependent requirements. Pegging Inquiry displays only those parents that contain planned or open orders. Pegging Inquiry enables you to:

- Display the parent work orders that require a particular item.
- Trace the source of demand for each item.
- Display the different levels in a bill of material so that you can peg demand from the beginning level through the parent item.

You can trace the path of dependent requirements up through parent items to the final assembled item and even to the sales order or forecast. You can use this information to determine if you need to reschedule or change orders.

Prerequisite

Generate a current material requirements plan that includes the start and end dates for the planning periods that you want to review.

Forms Used to Analyze Planning Output

Form Name	Form ID	Navigation	Usage
Work With Time Series	W3413A	DRP Daily Operations (G3411), DRP Time Series/ATP Inquiry MPS Daily Operations (G3412), MPS Time Series/ATP Inquiry MRP Daily Operations (G3413), MRP Time Series/ATP Inquiry	Review time-phased supply and demand quantities
Work with Message Summary	W3401D	DRP Daily Operations (G3411), DRP Planning Family Review MPS Daily Operations (G3412), MPS Planning Family Review MRP Daily Operations (G3413), MRP Planning Family Review	Review summarized message records by planning family.
Work With Detail Messages	W3411D	DRP Daily Operations (G3411), DRP Detail Message Review MPS Daily Operations (G3412), MPS Detail Message Review MRP Daily Operations (G3413), MRP Detail Message Review	Review detail messages generated by the Requirements Planning Regeneration program (R3482).
Work With Pegging Inquiry	W3412A	MRP Daily Operations (G3413), Pegging Inquiry	Review the sources of dependent demand.

Setting Processing Options for MPS Time Series (P3413)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

These processing options enable you to specify the required and alternate UDC types for the time series row descriptions in the MPS Time Series program (P3413).

- UDC Type (Required)** Use this processing option to specify the UDC code in system 34 for the list of row descriptions that appear on the time series. If you leave this option blank, the system uses the quantity type code (*QT*).

2. Alternate UDC Type (Optional)

Use this processing option to specify the UDC code in system 34 for the list of alternate row descriptions that appear on forms that are associated with the Time Series program (P3413). Select the Alternate Quantity Type option to display the alternate row descriptions. If you do not select an option, the system does not display the alternate row descriptions.

Process

These processing options identify what information appears on the Time Series form and how the information appears. You can select specific past due and forecast consumption periods. Additionally, you can select to summarize supply and demand data into a single row.

1. Past Due Periods

Use this processing option to specify the number of periods that the system displays prior to the MRP generation start date on the time series. Values are:

0: Zero periods (default) prior to the MRP generation start date.

1: One period prior to the MRP generation start date.

2: Two periods prior to the MRP generation start date.

This value should correspond to the MRP Generation (R3482/R3483) past due periods. If the MRP Generation program has one past due period, this option should be set to *1*.

2. Summarize Supply and Demand

Use this processing option to summarize supply lines into a single row and demand lines into another single row on forms that are associated with the Time Series program (P3413). Values are:

Blank: The system does not summarize supply and demand lines into single rows.

1: The system summarizes supply and demand lines into single rows.

3. Forecast Consumption Periods (FCP)

Use this processing option to specify whether the system indicates the forecast consumption periods in the Time Series program (P3413) when MRP uses forecast consumption. Values are:

Blank: The system does not indicate the forecast consumptions periods.

1: The system indicates the forecast consumptions periods by placing an asterisk next to the date.

Versions

These processing options enable you to specify versions of reports and programs such as MRP/MPS Requirements Planning and MRP/MPS Detail Message Revisions (P3411) that you access through the Row and Form menus from the MPS Time Series program (P3413).

1. Single Item MRP (R3482)

Use this processing option to specify the version of the Single Item MRP program (R3482) that the system uses when you access it from the Form menu on the Work With Time Series form. If you leave this option blank, the system uses the ZJDE0001 version.

2. MRP Detail Message Review (P3411)

Use this processing option to specify the version of the MRP Detail Message Review program (P3411) that the system uses when you access it from the Row menu on the Work With Time Series form. If you leave this option blank, the system uses the ZJDE0001 version.

- | | |
|---|--|
| 3. Supply and Demand Inquiry (P4021) | Use this processing option to specify the version of the Supply and Demand Inquiry program (P4021) that the system uses when you access it from the Form menu on the Work With Time Series form. If you leave this option blank, the system uses the ZJDE0001 version. |
| 4. Forecast Revisions (P3460) | Use this processing option to specify the version of the Forecast Revisions program (P3460) that the system uses when you access it from the Form menu on the Work With Time Series form. If you leave this option blank, the system uses the ZJDE0001 version. |
| 5. Pegging Inquiry (P3412) | Use this processing option to specify the version of the Pegging Inquiry program (P3412) that the system uses when you access it from the Form menu on the Work With Time Series form. If you leave this option blank, the system uses the ZJDE0001 version. |
| 6. Rate Schedule Revisions (P3109) | Use this processing option to specify the version of the Rate Schedule Revisions program (P3109) that the system uses when you access it from the Form menu on the Work With Time Series form. If you leave this option blank, the system uses the ZJDE0001 version. |
| 7. Work Day Calendar (P00071) | Use this processing option to specify the version of the Work Day Calendar program (P00071) that the system uses when you access it from the Form menu on the Work With Time Series form. If you leave this option blank, the system uses the ZJDE0001 version. |
| 8. Item Branch (P41026) | Use this processing option to specify the version of the Item Branch program (P41026) that the system uses when you access it from the Form menu on the Work With Time Series form. If you leave this option blank, the system uses the ZJDE0001 version. |

Reviewing the Time Series

Access the Work With Time Series form.

MRP Time Series/ATP Inquiry - Work With Time Series

FindCloseFormTools

☒ Suppress Blank Lines

☐ Summarize Supply Demand

☐ Alternate Quantity Type

Branch/PlantM30

Start From Date

Unit of MeasureEA

Item Number220

Touring Bike, Red

Leadtime Level2Fixed

Records 1 - 12

Customize Grid

Description	Past Due	6/10/2005	6/17/2005 F	6/24/2005	7/1/2005 P	7/2
+BAU	134	134			-80	-80
+BA	134	134				
+WOU						2000
+WO				80		
-FSCU						288
-FCST						288
-SOU			134	80		74
-SO			134	80		74
=EAU	134			-80	-80	1558
=EA	134					

Work With Time Series form

- Suppress Blank Lines

Indicates whether blank lines should be suppressed from being displayed on the screen.
- Summarize Supply/Demand

Displays records in detail or summarized form.
- Alternate Quantity Type

Toggle between the alternate quantity types specified in the processing options of the Time Series program.
- Item Number

Enter the item for which you want to review the time series.

Reviewing Messages for a Planning Family

Access the Work with Message Summary form.

MRP Planning Family Review - Work with Message Summary

Select Find Close Form Row Tools

Planner Number * Branch/Plant M30

Buyer Number * Thru Date *

Supplier Number * Message Type *

Planning Family 200 Planning Code *

Project Number Stocking Type *

Records 1 - 10 Customize Grid

2nd Item Number	Item Description	Outstanding Messages	Short Item No	3rd Item Number	Planner Number	Buyer Number
☐ 240	Recreational Sport Bike	A 0 0 0 0 0 0 0 0 0 0 0 +	721131	240	8444	8443
☐ 210	Mountain Bike, Red	0 0 0 0 0 0 0 0 0 0 0	60011	210	8444	8444
☐ 230	Youth Sport Bike	A F	60020	230	8444	8444
☐ 2005	Chain Stay	A A	60100	2005	7500	
☐ 2012	Chain, DX	A	60177	2012	8444	8444
☐ 2020	Stem	A	60257	2020	8444	8444
☐ 220	Touring Bike, Red	E L 0 0 0 0 0 0 0 0 0 0 +	60038	220	7500	

Work with Message Summary form

Planning Family

Enter a UDC (41/P4) that represents an item property type or classification, such as commodity type or planning family. The system uses this code to sort and process like items.

See Also

Chapter 8, "Planning Material Requirements," Processing Purchase Order Messages, page 110

Setting Processing Options for MRP/MPS Detail Message Revisions (P3411)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

PO Info

Use these processing options to define purchase order information.

1. Line Type

Use this processing option to specify how the system processes lines on a transaction. The line type affects the systems with which the transaction interfaces (General Ledger, Job Cost, Accounts Payable, Accounts Receivable, and Inventory Management). The line type also specifies the conditions for including a line on reports and in calculations. Some examples of values, which have been defined on the Line Type Constants Revisions form (P40205), are:

S: Stock item.

J: Job cost, subcontracts, or purchasing to the General Ledger.

B: GL account and item number.

N: Non-stock item.

F: Freight.

T: Text information.

M: Miscellaneous charges and credits.

W: Work order.

2. Beginning Status

Use this processing option to indicate the beginning status, which is the first step in the order process. You must specify a UDC (40/AT) that has been set up on the Order Activity Rules form for the order type and the line type that you are using.

3. Consolidate

Use this processing option to indicate whether you want to consolidate all processed messages that apply to one supplier on one purchase order. Values are:

I: Consolidate messages.

Blank: Do not consolidate messages.

WO Info

Use these processing options to define work order information.

1. Beginning Status

Use this processing option to specify the UDC (00/SS) that identifies the default status of the work order to use when a work order is created.

2. Cancelled Orders Status

Use this processing option to identify the default user defined status code (00/SS) for a canceled work order.

OT Info

Use this processing option to define transfer order information.

1. Consolidate

Use this processing option to indicate whether you want to consolidate all processed messages that apply to one branch/plant on one transfer order. Values are:

I: Consolidate messages.

Blank: Do not consolidate messages.

Blanket Info

Use this processing option to define blanket order information.

1. Blanket Order Document Type to Release

Use this processing option to indicate whether you want the program to perform an interactive release against a matching blanket order when processing messages to create purchase orders.

- Enter a document type to release against.
- If you leave this field blank, the program does not release against a blanket order.

Versions

Use these processing options to define what version to use when this program accesses another program.

When you select a version, review the version's processing options to ensure that the version meets the requirements.

- | | |
|--|--|
| 1. Blanket Order Release (P43216) | Use this processing option to specify a version of the Blanket Order Release program. The system calls this version when you access Blanket Order Release from this program. |
| 2. Time Series (P3413) | Use this processing option to specify a version of the Time Series program.

The system calls this version when you access Work with Time Series from the Form menu of the Work with Detail Messages or Detail Message Revisions form. |
| 3. Pegging Inquiry (P3412) | Use this processing option to specify a version of the Pegging Inquiry program. The system calls this version when you access Work with Pegging Inquiry from the Form menu of the Work with Detail Messages or Detail Message Revisions form. |
| 4. Supply/Demand Inquiry (P4021) | Use this processing option to specify a version of the Supply and Demand Inquiry program. The system calls this version when you access Work with Supply and Demand from the Form menu of the Work with Detail Messages or Detail Message Revisions form. |
| 5. Purchase Order Entry (P4310) | Use this processing option to specify a version of the Purchase Orders program. The system calls this version when you access Work with Order Details from the Row menu of the Work with Detail Messages or Detail Message Revisions form. |
| 6. Work Order Entry (P48013) | Use this processing option to specify a version of the Work Order Processing program. The system calls this version when you access Work Order Processing from this program. |
| 7. Rate Schedule Revisions (P3109) | Use this processing option to specify a version of the Enter/Change Rate Schedule program. The system calls this version when you access Work with Rate Schedules from the Form menu of the Work with Detail Messages or Detail Message Revisions form. |
| 8. Transfer Order Entry (P4210) | Use this processing option to specify a version of the Sales Order Entry program. The system calls this version when you access Sales Order Entry from this program. |
| 9. Scheduling Workbench (P31225) | Use this processing option to specify a version of the Manufacturing Scheduling Workbench program. The system calls this version when you access Work with Work Order Scheduling from the Form menu of the Work with Detail Messages or Detail Message Revisions form. |
| 10. Bill of Material Inquiry (P30200) | Use this processing option to specify a version of the Bill of Material Inquiry program. The system calls this version when you access Bill of Material Inquiry from the Row menu of the Work with Detail Messages or Detail Message Revisions form. |
| 11. Item Branch (P41026) | Use this processing option to specify a version of the Item Branch program. |

The system calls this version when you access Plant Manufacturing Data from the Row menu of the Work with Detail Messages or Detail Message Revisions form.

Display

Use this processing option to specify whether to view messages for demand branch/plant or supply branch/plant.

1. Viewing Messages For Use this processing option to specify whether to view messages for demand branch/plant or supply branch/plant. Values are:

- I*: View messages for supply branch/plant.
- Blank: View messages for demand branch/plant.

Reviewing Detail Messages

Access the Work With Detail Messages form.

MRP Detail Message Review - Work With Detail Messages

SelectFindAddDeleteCloseFormRowViewTools

Item Number220Demand BranchM30Touring Bike, Red

Planner*Buyer*Planning Family*Planning Code*Project Number*

Records 1 - 10

Customize Grid

	Item Number	Msg Typ	Message	Hold Code	Message Processed	Required Quantity	UM	Order Number	Or Ty	W.O. Status
☐	220	E	Expedite	A		2000	EA	451004	WO	45
☐	220	L	Decrease Order Quantity	A		80	EA	451004	WO	45
☐	220	O	Order	A		74	EA		WO	10
☐	220	O	Order	A		288	EA		WO	10
☐	220	O	Order	A		197	EA		WO	10
☐	220	O	Order	A		158	EA		WO	10
☐	220	O	Order	A		218	EA		WO	10
☐	220	O	Order	A		96	EA		WO	10
☐	220	O	Order	A		197	EA		WO	10
☐	220	O	Order	A		242	EA		WO	10

Work With Detail Messages

Setting Processing Options for Pegging Inquiry (P3412)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Versions

Enter the version for each program. If you leave a field blank, the system uses version ZJDE0001.

- 1. Message File Revisions** Identifies a group of items that can be processed together such as reports, business units, or subledgers.
- 2. Time Series** Enter a sequence number that identifies versions of a menu selection. For example, where multiple versions of a report menu selection are set up, this sequence number identifies each of those versions.
- 3. Supply and Demand Inquiry** Set up multiple versions of certain menu selections (for example, reports). This sequence number identifies each of those versions.
- 4. Item Branch (P41026B)** Identifies a specific set of data selection and sequencing settings for the application. Versions may be named using any combination of alpha and numeric characters.

Reviewing Pegging Demand

Access the Work With Pegging Inquiry form.

Pegging Inquiry - Work With Pegging Inquiry

Find Close Form Row Tools

Item Number: 2004 Branch/Plant: M30
 Requested Date: UOM: EA
 Project Number: *
 Leadtime Level: 3 Fixed

Records 1 - 10 Customize Grid

	Req Date	Quantity	2nd Item Number	Item Description	Type	Type Description	Branch	Order No
☒	06/13/05	10	2001	Cro-Moly Frame, Red	FO	Firm Work Order W/F	M30	451012
☐	07/15/05	197	2001	Cro-Moly Frame, Red	WP	Planning Work Order	M30	
☐	08/17/05	158	2001	Cro-Moly Frame, Red	WP	Planning Work Order	M30	
☐	09/16/05	218	2001	Cro-Moly Frame, Red	WP	Planning Work Order	M30	
☐	10/17/05	96	2001	Cro-Moly Frame, Red	WP	Planning Work Order	M30	
☐	11/16/05	197	2001	Cro-Moly Frame, Red	WP	Planning Work Order	M30	
☐	12/16/05	242	2001	Cro-Moly Frame, Red	WP	Planning Work Order	M30	
☐	01/17/06	54	2001	Cro-Moly Frame, Red	WP	Planning Work Order	M30	
☐	02/14/06	51	2001	Cro-Moly Frame, Red	WP	Planning Work Order	M30	
☐	03/17/06	131	2001	Cro-Moly Frame, Red	WP	Planning Work Order	M30	

Work With Pegging Inquiry

- Requested Date** Enter the date that an item is scheduled to arrive or that an action is scheduled for completion.

Processing Planning Output

This section provides an overview of planning output processing and discusses how to:

- Process purchase order messages.
- Set processing options for MRP/MPS Detail Message Process (R3411).

- Add a freeze code to a work order.
- Add a freeze code to a purchase order.
- Analyze supply and demand.

Understanding Planning Output Processing

After you have analyzed the planning output, you process the messages into orders to meet the demand.

You can place messages on hold so that the system does not change the message during the next generation (for example, to preserve a manual reminder). The system retains held messages until you manually clear or delete them.

You can clear a message from the MRP/MPS Detail Message Revisions form if you choose not to process it.

Work Order Messages

When you process work order messages, the system creates work order headers in the F4801 table and assigns work order numbers. The system does not attach a parts list or routing information at this time.

You can process work order messages by using any of these methods:

- Process a single action message for an item.
- Process multiple action messages for an item.
- Process messages using a planning family.
- Process messages automatically.

The system first processes work order messages. Work order messages appear on the MRP/MPS Detail Message Revisions form with an order type of WO. The master schedule remains firm or does not change from the beginning date through the end date when the system processes these work order messages. These firm orders are not automatically replanned in subsequent MPS generations. However, if the subsequent MPS generation finds a mismatch between the supply quantities or dates and the demand quantities or dates, the program recommends realignment of the existing work orders.

When you use fixed order quantity (FOQ), MPS/DRP does not generate an Increase message for an existing order to cover demand. Instead, the system generates Order messages in multiples of FOQ as needed to cover the demand.

When you create or update an order, you can modify the status of the order to indicate the stage of production. To do so, enter a new status in the Status field. The system displays this field only for messages that are related to order processing.

Purchase Order Messages

Purchase order messages appear on the MRP/MPS Detail Message Revisions form with an order type of OP. You can process a purchase order message by using any of these methods:

- Process a single action message without blanket order checking or consolidation.
- Process one or more action messages with blanket order checking.
- Process messages using purchase order consolidation to include more than one item on a purchase order.
- Process purchase order messages by using a planning family.
- Process messages using the Supplier Scheduling system.

Note. If an item does not have a supplier assigned to it, the system displays an error message. Enter a supplier number and click OK.

To expedite message processing, it is recommended that you set up a different version of MRP/MPS Detail Message Revisions for each of the previous methods. That is, set up one version to process a single action message without blanket order checking or consolidation, another version to process one or more action messages with blanket order checking, and so on.

Depending on how you set the processing option for the MRP/MPS Requirements Planning program, the program creates either a purchase requisition (document type OR) or a purchase order (document type OP). The program includes a user ID on the purchase order and uses the system date as the date on which the purchase order was created.

In addition, the program creates the purchase order in the purchasing unit of measure, even though the action message displays the primary unit of measure. The program makes the appropriate unit of measure conversions. After the next DRP/MPS regeneration, the quantities that are associated with processed messages appear in the time series display on the +PO Quantity Type row.

When you process messages, the system firms that portion of the DRP/MPS replenishment plan. Subsequent DRP/MPS regeneration does not change the timing or quantities that are associated with previously processed messages. However, if the new regeneration finds a mismatch between the supply and demand quantities or dates, the program issues a message recommending that you realign the existing +POs.

Purchase Order Consolidation

The system creates one purchase order header with as many detail line items for messages as necessary. Dates correspond to the messages. If a part has more than one supplier, you can change the supplier number in the message detail area. The system produces a purchase order for each supplier.

Automatic Message Processing

As an alternative to processing messages interactively, you can run MRP/MPS Detail Message Processing (R3411). The program processes these types of messages for work orders, purchase orders, and transfer orders:

- *B*: Order and expedite.
- *C*: Cancel.
- *D*: Defer.
- *E*: Expedite.
- *G*: Increase order quantity to.
- *L*: Decrease order quantity to.
- *O*: Order.

The program does not produce a report. Review error messages in the Work Center (P012501) in the Submitted Jobs queue. View any message that the program did not process on the Work with Detail Messages form.

Freeze Codes

You can freeze the time and quantity values in a purchase order so that DRP and MPS do not generate any action messages to change the order. You freeze purchase orders before negotiations are final or when a purchasing contract has been signed with a supplier.

You can freeze the time and quantity values in a work order so that DRP and MPS do not generate any action messages to change the order. You freeze work orders when the order is within the freeze time fence.

See Also

Chapter 8, “Planning Material Requirements,” Setting Processing Options for MRP/MPS Detail Message Revisions (P3411), page 101

Understanding MRP Supply and Demand

Use the Supply and Demand Inquiry program to review the current demand for a selected item. Supply and Demand Inquiry enables you to:

- Display the current inventory position, including all scheduled supply and demand.
- Review item quantity supply, demand, and order availability in date order.

Planning Fence Rule Impact on Supply and Demand Inquiry

The supply and demand inquiry view of the Supply and Demand Inquiry program uses the identified planning fence rule for an item when calculating realtime net requirement values. The supply and demand inquiry view respects the designated planning fence rule when identifying which demand elements are considered during realtime netting calculations for an item.

Note. Supply and demand inquiry reflects all of the planning fence rules with the exception of the Forecast Consumption rule (rule H). Forecast Consumption logic is displayed using the time series view only.

Available-to-promise calculations can be displayed on the demand inquiry view by setting the appropriate processing option for the Supply and Demand Inquiry program.

See Also

PeopleSoft EnterpriseOne Inventory Management 8.11 PeopleBook

Forms Used to Process Planning Output

Form Name	Form ID	Navigation	Usage
Work With Detail Messages	W3411D	DRP Daily Operations (G3411), DRP Detail Message Review MPS Daily Operations (G3412), MPS Detail Message Review MRP Daily Operations (G3413), MRP Detail Message Review On the Work with Message Summary form, select Message Detail from the Row menu.	Process work order and purchase order messages individually by choosing Process Message(s) from the Row menu. Clear messages by choosing Clear Message from the Row menu.
Detail Message Revisions	W3411B	On the Work With Detail Messages form, select a row, and select Message Revision from the Row menu.	Place messages on hold.
Suppliers Selected for Order	W43032A	On the Work with Detail Messages form, select Process Message(s) from the Row menu.	Generate purchase orders.
Work Order Details	W48013A	Daily Order Preparation - Discrete (G3111), Enter/Change Order Select a work order, and click Select. On the Work Order Details form, select the Status & Type tab.	Enter a freeze code for a work order.
Order Detail - Page II	W4310E	Purchase Order Processing (G43A11), Enter Purchase Orders On the Work With Order Headers form, select a purchase order. Select Detail Revision from the Row menu. On the Order Detail form, select a row, and then select Additional Info 2 from the Row menu.	Enter a freeze code for a purchase order.
Work With Supply and Demand	W4021B	MRP Daily Operations (G3413), Supply/Demand Inquiry	Review supply and demand changes that result from orders.

Processing Purchase Order Messages

Access the Suppliers Selected for Order form.

To generate purchase orders, select the Generate Order options from the Form menu.

MRP Planning Family Review - Suppliers Selected for Order

Form Row Tools

Records 1 - 1 [Customize Grid](#)

☐	☐	Order Number	Or Ty	Order Co	Supplier	Supplier Name	Branch/ Plant	Request Date
☐			OP	00200	4343	Parts Emporium	M30	

Suppliers Selected for Order form

Setting Processing Options for MRP/MPS Detail Message Process (R3411)

From DRP Daily Operations (G3411), select DRP Detail Message Processing.

From MPS Daily Operations (G3412), select MPS Detail Message Processing.

From MRP Daily Operations (G3413), select MRP Detail Message Processing.

PO Info

Use these processing options to specify processing specific to purchase orders.

1. Enter the Line Type

Use this processing option to specify how the system processes lines on a transaction. The line type affects the systems with which the transaction interfaces (General Ledger, Job Cost, Accounts Payable, Accounts Receivable, and Inventory Management). The line type also specifies the conditions for including a line on reports and in calculations.

Some examples of values, which have been defined on the Line Type Constants Revisions form (P40205), are:

S: Stock item.

J: Job cost, subcontracts, or purchasing to the General Ledger.

B: GL account and item number.

N: Non-stock item.

F: Freight.

T: Text information.

M: Miscellaneous charges and credits.

W: Work Order.

2. Enter the Beginning Status

Use this processing option to indicate the beginning status, which is the first step in the order process. You must specify a UDC (40/AT) that has been set up on the Order Activity Rules form for the order type and the line type that you are using.

3. Enter '1' to Consolidate all messages onto one purchase order by supplier

Use this processing option to indicate whether you want to consolidate all processed messages that apply to one supplier on one purchase order. Values are:

1: Consolidate messages.

Blank: Do not consolidate messages.

WO Info

Use these processing options to specify processing specific to work orders.

1. Enter the Beginning Status.

Use this processing option to specify the UDC (00/SS) that identifies the default status of the work order to use when a work order is created.

2. Enter the Status for Cancelled Orders.

Use this processing option to identify the default UDC status code (00/SS) for a canceled work order.

OT Info

Use these processing options to specify processing specific to transfer orders.

1. Enter '1' to Consolidate Transfer Order messages.

Use this processing option to indicate whether you want to consolidate all processed messages that apply to one branch/plant on one transfer order. Values are:

1: Consolidate messages.

Blank: Do not consolidate messages.

Blanket Info

Use these processing options to specify processing specific to blanket orders.

1. Enter Document Type associated with Blanket Orders. Blanks will not check for open blanket orders.

Use this processing option to indicate whether you want the program to perform an interactive release against a matching blanket order when processing messages to create purchase orders.

- Enter a document type to release against.
- If you leave this field blank, the program does not release against a blanket order.

Versions

All versions use ZJDE0001 as the default.

When you select a version, review the version's processing options to ensure that the version meets the requirements.

1. Enter the version of WO Entry (P48013) to be used.

Use this processing option to specify a version of the Work Order Processing program. The system calls this version when you access Work Order Processing from this program.

2. Enter the version of Purchase Order Entry (P4310) to be used.

Use this processing option to specify a version of the Purchase Orders program. The system calls this version when you access Work with Order Details from the Row menu of the Work with Detail Messages or Detail Message Revisions form.

- | | |
|--|---|
| 3. Enter the version of Rate Schedule Revisions (P3109) to be used. | Use this processing option to specify a version of the Enter/Change Rate Schedule program. The system calls this version when you access Work with Rate Schedules from the Form menu of the Work with Detail Messages or Detail Message Revisions form. |
| 4. Enter the version of Transfer Order Entry (P4210) to be called. | Use this processing option to specify a version of the Sales Order Entry program. The system calls this version when you access Sales Order Entry from this program. |
| 5. Enter the version of Blanket Release (P43216) to be called. | Use this processing option to specify a version of the Blanket Order Release program. The system calls this version when you access Blanket Order Release from this program. |

SO Hold

Use these processing options to specify processing specific to sales orders.

- | | |
|---|---|
| 1. Enter the Hold Code for the related sales order if a work order is cancelled, deferred, or expedited. Blanks will not update the sales order. | Enter a UDC (42/HC) that identifies why an order was placed on hold (for example, credit, budget, or margin standards were exceeded). |
|---|---|

PO Hold

Use these processing options to specify processing specific to purchase orders.

- | | |
|---|--|
| 1. Enter the Hold Code for the related purchase order if a work order is cancelled, deferred or expedited. Blanks will not update the purchase order. The purchase order will be updated only if the work order routings are recalculated. | Enter a UDC (42/HC) that identifies why an order is on hold. |
|---|--|

Subsystem Job

Use this processing option to specify processing for subsystem jobs.

- | | |
|---|--|
| 1. Enter a valid mode for the Subsystem Job. Use this option on the version specified for Subsystem Job. | <p>Use this processing option to specify a valid mode for the subsystem job. Values are:</p> <p><i>I</i>: Add job to subsystem.</p> <p>Blank: Do not add job to subsystem.</p> |
|---|--|

Adding a Freeze Code to a Work Order

Access the Work Order Details form.

Enter/Change Order - Work Order Details

Cancel Form Tools

Order No/Type: 451004 WO Branch/Plant: M30

WO Desc: Touring Bike, Red W.O. Scheduling

Item Number: 220

Select Tab: Status & Type

Sts Comm.:

Bill Type: M Standard Manufacturing Bill

Rtg. Type: M Standard Manufacturing Routing

Status: 45 Material Issued

Type: S Shop Order

Freeze Code: N Do not freeze the order.

Work Order Details form

Adding a Freeze Code to a Purchase Order

Access the Order Detail - Page II form.

Enter Purchase Orders - Order Detail - Page II			
OK Cancel Form Tools			
Report Code 1		Add purchase cat P1 codes here	Send Method
Report Code 2		Add purchase cat P2 codes here	Freeze Code N
Report Code 3		Add supplier rebate P3 codes h	G/L Offset IN30
Report Code 4	200	Bike	Eval. Receipts N
Cost Rule		Add landed cost rule here P4	
Extended Weight	100.0000	OZ	Supplier SO
Extended Volume		FC	Reference
Original Order		Related Order	
Number		Type	
Company		Suffix	
Line No.			
Commodity Code			
UNSPSC Code			

Order Detail - Page II form

Analyzing Supply and Demand

Access the Work With Supply and Demand form.

Supply/Demand Inquiry - Work With Supply and Demand

Find Cancel Form Row Tools

Branch/Plant

Item Number Cro-Moly Frame

Thru Date UOM

Leadtime Level Fixed

Records 1 - 31

		Promise Date	Demand	Supply	Quantity Available	Order No	Type	Branch/Plant	Customer/Supplier Name
☐				242	1260		WO	M30	
☐				54	1314		WO	M30	
☐				51	1365		WO	M30	
☐				131	1496		WO	M30	
☐				135	1631		WO	M30	
☐				172	1803		WO	M30	
☐				246	2049		WO	M30	
☐		04/15/05	167		1882	451119	WO	M30	
☐		06/12/05		10	1892	451021	WO	M30	
☒		06/12/05						M30	Available to Promise

Work With Supply and Demand form

CHAPTER 9

Validating Requirements Plans

This chapter provides an overview of requirements plan validation and discusses how to:

- Generate CRP/RCCP.
- Validate requirements plans.

Understanding Requirements Plan Validation

After you generate the requirements plan, either a master schedule or material requirements plan, you can validate it to ensure that you have sufficient work center capacity. Use the CRP/RCCP Regeneration program (R3382) to generate capacity planning information.

In PeopleSoft EnterpriseOne software, the same batch program generates capacity planning information for both Rough Cut Capacity Planning (RCCP) and Capacity Requirements Planning (CRP). The only difference is in the work centers that you identify in the data selection.

The primary differences between RCCP and CRP are:

- RCCP is generally run for end items on the Master Production Schedule (MPS) and only considers critical work centers.
- CRP is generally run for all manufactured items and considers all work centers.

If critical work centers appear in the routings of component work orders that are generated by Material Requirements Planning (MRP), then the system can also include MRP orders in RCCP because both RCCP and CRP use the same batch program.

The CRP/RCCP Regeneration program generates:

- Over-capacity and under-capacity messages.
- Work center load.
- Period summary.

The pacing resource for critical work centers is either labor or machine, depending on which one would increase the work center's capacity. A work center is paced by labor if adding employees to the work center increases capacity. A work center is paced by machine if adding machines increases capacity. Use the Prime Load field on the Work Center Master Revisions form to define the pacing resource.

These terms are important for understanding master schedules:

Resource Units

The resource units indicate the units that are associated with a work center for each workday on the Work Day Calendar. The system displays resource units as hours, units, monetary amounts, floor space, and so on. This information is associated with a work center for each workday on the Work Day Calendar. The system uses this information to back schedule work orders in Shop Floor Management and to calculate available hours for capacity planning. You can manually enter or revise resource unit information for each work center and for each workday using the Work Center Resource Units program (P3007).

Work Center Hours

Use the Work Center Resource Units Generation program (R3007G) to recalculate the work center hours. You use this program only for processing data. It does not produce a printed report. However, you can view the results of the most recent refresh operation on the Work Center Resource Units form.

Generating CRP/RCCP

This section provides an overview of capacity plan generation, lists prerequisites, and discusses how to:

- Set processing options for CRP/RCCP Regeneration.
- Run the CRP/RCCP Regeneration.

Understanding Capacity Plan Generation

Use the CRP/RCCP Regeneration program to compare prospective resource requirements to the capacity that is available in critical work centers. The capacity plan indicates whether you should revise the schedule to create feasible workloads or improve the use of limited resources.

When you run the CRP/RCCP Regeneration program, the system:

- Identifies critical work centers.
- Identifies the pacing resource for critical work centers.
- Calculates the rated capacity for critical work centers.
- Calculates the MPS load for critical work centers.

To calculate rated capacity for critical work centers, the system uses this standard formula:

Number of employees (or machines) * hours per day * efficiency factor * utilization factor

You can manually calculate efficiency by dividing standard hours by actual hours. For example, if it takes a crew ten hours to complete a job that has standard hours established at eight hours, the crew is working at 80 percent efficiency ($8 / 10 = .80$).

For reference, the inverse operation (*actual hours / standard hours*) is called realization.

Utilization is calculated by finding the number of hours in a day that the work center is actually available for working as compared to standard. One hundred percent utilization is an unrealistic goal because preventive maintenance, employee breaks, and other factors typically affect utilization.

You calculate the MPS load for critical work centers by using either the routing table for planned work orders (+PLO) or the routing instruction table for firm work orders (+WO) with a routing attached. If the work order is firm (meaning that a header is created) but does not have a routing instruction attached, the system uses the routing table. The formulas for calculating MPS load are:

Planned orders * pacing hours from the routing table

Firm orders * pacing hours from the routing instruction table

The code in the Prime Load field in the Work Center Master File table (F30006) determines the type of pacing at the work center.

Operations are back scheduled using the same logic in Shop Floor Management. This operation schedule places load into the proper time frame. You must enter the time basis code and order quantity into the equation for load calculation.

The system uses this formula to calculate the load for an operation:

Work order quantity * number of pacing hours on routing/time basis code

The system generates messages that indicate whether the load is over-capacity or under-capacity.

Prerequisites

Capacity Requirements Planning follows the same level of operational planning as Material Requirements Planning. You should synchronize information for both MRP and CRP:

- The planning horizon.
- The work order document types.
- The statuses in the supply and demand inclusion rules.

Setting Processing Options for CRP/RCCP Regeneration

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Process

These processing options enable you to specify the variable information that the system uses to regenerate the CRP/RCCP.

1. Under Rated Capacity Percent

Use this processing option to specify the percent under the rated capacity that the system still considers as an underloaded work center. The system displays messages with a status of *U* (under) for a capacity load that is less than the identified percentage under the rated value.

2. Over Rated Capacity Percent

Use this processing option to specify the percent over the rated capacity that the system displays as overrated and as an overloaded work center. The system

	displays messages with an <i>O</i> status (over) for capacity loads that are greater than the identified percentage over the rated value.
3. Branch	Use this processing option to specify the branch that the system uses for the CRP/RCCP Planning Regeneration program.
4. Supply/Demand Inclusion Rule	Use this processing option to specify which supply and demand inclusion rule that the system uses for the generation of an item. Supply and demand inclusion rules define the criteria that the system uses to select active orders for processing.
5. Capacity Mode	Use this processing option to specify which capacity mode the system uses. Values are: 2: The system uses rough cut capacity planning. 3: The system uses capacity requirements planning.
6. Unit of Measure	Use this processing option to specify the unit of measure that the system uses for backscheduling the capacity load. The default unit of measure is <i>HR</i> (hour).
7. Roll Up to Dispatch Group	Use this processing option to specify whether the system rolls up multiple work centers to a dispatch group for review. Values are: Blank: Work centers do not roll up to a dispatch group. 1: Work centers roll up to a dispatch group.
8. Closed Routing Operation Status	Enter the status for closed routing operation. CRP will not calculate loads for operations whose status (OPST) is greater than or equal to this value. If left blank, loads will be calculated for all routing operation steps.

Running CRP/RCCP Regeneration

From the Periodic Resource/Capacity Planning menu (G3321), select Capacity Requirements Plan.

Validating Requirements Plans

This section provides an overview of the validation process, lists prerequisites, and discusses how to:

- Review work center loads.
- Review period summaries.
- Set processing options for Operation Dispatch Inquiry (P31220).
- Review work schedules for production status.
- Set processing options for Work Center Schedule Review (P31224).
- Review rate schedule and work center loads.
- Review the Shop Floor Workbench for MRP.

Understanding the Validation Process

The validation processing includes reviewing and revising capacity information in several programs.

Period Summaries

Use the Period Summary program (P3312) to review specific items that make up the capacity load for a defined period for a work center. You can view the detail of all current and future orders that have been scheduled for a work center.

The system summarizes the load by period using the unit of measure that you select. The system also displays the percentage of total load that is planned for that period for an item on an order.

Work Center Scheduling Information

Use the Operation Dispatch Inquiry program to locate and update work center scheduling information. This workbench environment serves as a starting point for work center scheduling and the release of work to the shop floor. Use this program to:

- Access work order information, including the header, the parts list, and the routing instructions.
- Review work order information, such as work center, remaining labor, and machine and setup hours.
- Sort work orders by start date, requested date, or operation status codes.
- Change the work order status code, start date, or requested date.

Rate Schedule and Work Center Load

Use the Work Center Schedule Review program to review the rate schedule load and the work order load for a work center. You can review a day, week, or month of the rate schedule load and the work order load. You can also select a specific date range for which to view the load for the work center. If you need to adjust the scheduled load at the work center, you can access several different forms on which to make adjustments.

Work Center Schedule Review is used primarily for rate-based items and is an alternative for viewing the load on a work center. A processing option enables you to include loads generated by a work order before or after rate loads.

Shop Floor Workbench

After a work order is on the shop floor, you must review the order and check capacity at the planned production line. You might need to change a schedule to keep the Material Requirements Planning schedule valid.

Prerequisites

Before you complete the tasks in this section:

- Report hours and quantities for operations that are complete or partially complete to ensure that the numbers for Released Load remaining for existing work orders are correct.

See *PeopleSoft EnterpriseOne Shop Floor Management 8.11 PeopleBook*, “Understanding Shop Floor Management,” Hours and Quantities Tracking.

- Verify that resource units exist for all of the critical work centers in the generation.

See *PeopleSoft EnterpriseOne Product Data Management 8.11 PeopleBook*, “Entering Work Centers and Routing Instructions,” Creating Work Centers.

- Set up supply and demand inclusion rules for Rough Cut Capacity Planning.
- Run the Master Production Schedule program.

Forms Used to Validate Requirements Plans

Form Name	Form ID	Navigation	Usage
Review Work Center Load	W3313A	Daily Rough Cut Capacity Planning (G3312), Review Work Center Load. From the Daily Capacity Requirements Planning (G3313), Review Work Center Load.	Compare work center load and capacity.
Work With Period Summary Review	W3312A	Daily Rough Cut Capacity Planning (G3312), Period Summary - Rough Cut Capacity. Daily Capacity Requirements Planning (G3313), Period Summary - Capacity Requirements.	Evaluate the work center load for a period
Work With Operation Dispatch	W31220B	Daily Rough Cut Capacity Planning (G3312), Operation Dispatch Inquiry. From the Daily Capacity Requirements Planning (G3313), Dispatch List.	Update work center scheduling information
Work Center Schedule Review	W31224B	Daily Order Preparation - Discrete (G3111), Work Center Schedule Review.	Review work order or rate schedule load for the work center
Work With Order Scheduling	W31225D	MRP Daily Operations (G3413), Shop Floor Workbench	Evaluate order schedule and compare to material requirements plan

Reviewing Work Center Loads

Access the Review Work Center Load form.

Review Work Center Load - Review Work Center Load

Select Find Close Form Tools

Work Center 200-101 Weld WorkCenter Branch M30

Unit of Measure HR Start Date Run Labor plus setup labor hrs

Records 1 - 5

	Description	Past Due 1	Past Due 2
☒	Rated Profile		
☐	Loaded Profile		
☐	% Resource Used		
☐	Resource Available		
☐	Accum. Resource Avail		

Review Work Center Load

Reviewing Period Summaries

Access the Work With Period Summaries form.

Setting Processing Options for Operation Dispatch Inquiry (P31220)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

Use these processing options to specify the defaults used for processing.

1. Enter the Default OPERATION Status Information to preload to the screen at initial inquiry. If left blank, no value will be preloaded:

From Status

Use this processing option to specify the from status (UDC 31/OS) on the Work with Operation Dispatch form. The from status specifies the beginning date for the selection of work order information.

Thru Status

Use this processing option to specify the thru status (UDC 31/OS) on the Work with Operation Dispatch form. The thru status specifies the end date for the selection of work order information.

2. Enter the Default Number of Days:

Prior to today's date for the From Date.

Use this processing option to specify the from date on the Work with Operation Dispatch form. You can specify a from date prior to the current date by entering the number of days that the system must subtract from the current date. For example, if the current date is 6/15 and you want the system to use 6/10 as the from date, you enter 5. The system subtracts five days and sets the from date to 6/10. If you leave this processing option blank, the system uses the current date as the from date.

Note. The From Date/Period specifies that the system displays transactions beginning with this date or period. Totals are calculated for the transactions that are displayed.

After today's date for the Thru Date

Use this processing option to specify the thru date on the Work with Operation Dispatch form. You can specify a thru date later than the current date by entering the number of days that the system adds to the current date. For example, if the current date is 6/15 and you want the system to use 6/20 as the thru date, you enter 5. The system adds five days and sets the thru date to 6/20. If you leave this processing option blank, the system uses the current date as the thru date.

Note. The Thru Date/Period specifies that the system displays transactions ending with this date or period. Totals are calculated for the transactions that are displayed.

Versions

Use these processing options to specify the versions of programs.

1. Work Order Processing (P48013)

Use this processing option to specify the version that the system uses when you select the Work Order Entry program (P48013) from the Row menu on the Work With Operation Dispatch form. If you leave this processing option blank, the system uses version ZJDE0001.

Blank = ZJDE0001

2. Work Order Routing (P3112)

Use this processing option to specify the version that the system uses when you select the Work Order Routing program (P3112) from the Row menu on the Work With Operation Dispatch form. If you leave this processing option blank, the system uses version ZDJE0001.

Blank = ZJDE0001

3. Work Order Parts List (P3111)

Use this processing option to specify the version that the system uses when you select the Work Order Parts List program (P3111) from the Row menu of the Work With Operation Dispatch form. If you leave this processing option blank, the system uses version ZDJE0001.

Blank = ZJDE0001

4. Work Order Parts Inquiry (P3121)

Use this processing option to specify the version that the system uses when you select the Work Order Parts List Inquiry program (P3121) from the Row menu on the Work With Operation Dispatch form. If you leave this processing option blank, the system uses version ZJDE0001.

Blank = ZJDE0001

5. Operation Dispatch Inquiry (P31220)

Use this processing option to specify the version that the system uses when you select the Operation Dispatch Inquiry program (P31220) from the Row menu on the Work With Operation Dispatch form. If you leave this processing option blank, the system uses version ZJDE0001.

Blank = ZJDE0001

6. Work Order Quantity (P31121)

Enter a user-defined set of specifications that control how applications and reports run. You use versions to group and save a set of user-defined processing option values and data selection and sequencing options. Interactive versions are associated with applications (usually as a menu selection). Batch versions are associated with batch jobs or reports. To run a batch process, you must select a version.

Blank = ZJDE0001

7. Work Order Hours (P31122)

Enter a user-defined set of specifications that control how applications and reports run. You use versions to group and save a set of user-defined processing option values and data selection and sequencing options. Interactive versions are associated with applications (usually as a menu selection). Batch versions are associated with batch jobs or reports. To run a batch process, you must select a version.

Process

Use this processing option to specify system processing.

Quantity Calculation

Use this processing option to specify whether the system subtracts the quantity scrapped or canceled from the remaining quantity. Values are:

Blank: Include the quantity scrapped or canceled in the remaining quantity.

I: Subtract the quantity scrapped or canceled from the remaining quantity.

Reviewing Work Schedules for Production Status

Access the Work With Operation Dispatch form.

Operation Dispatch Inquiry - Work With Operation Dispatch

Select Find Close Row Tools

Work Center Filter

From Date/Period Thru Date/Period

From Op Status Thru Op Status

Display Sequence

☒ Requested Date

☐ Start Date

Records 1 - 2

	Order Number	Type	Oper Seq	Oper Status	Start Date	Reqd Date	Remaining Machine Hours	Remaining Labor Hours
☒	451469	WO	10.00		05/31/05	05/31/05	0.05	
☐							0.05	

Work With Operation Dispatch form

Thru Op Status

Enter a UDC (31/OS) that indicates the status of an operation. The thru operation status is used as an ending point to select work order information to display.

Setting Processing Options for Work Center Schedule Review (P31224)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

Although processing options are set up during PeopleSoft EnterpriseOne implementation, you can change processing options each time you run a program.

1. Document Type

Use this processing option to specify the default document type associated with the work order or rate schedule. Document type is a UDC (00\DT) that identifies the origin and purpose of the document. Enter the document type to use as a default value or select it from the Select User Define Code form.

Disp Options

Although processing options are set up during PeopleSoft EnterpriseOne implementation, you can change processing options each time you run a program.

1. Subfile Dates

Use this processing option to specify how the system calculates and displays the loads. Values are:

1: The system calculates and displays monthly loads.

2: The system calculates and displays weekly loads.

3: The system calculates and displays daily loads.

Blank: The system calculates and displays daily loads.

WO Processing

Although processing options are set up during PeopleSoft EnterpriseOne implementation, you can change processing options each time you run a program.

- | | |
|--|---|
| 1. Include Work Order Generated Loads | Use this processing option to specify whether the system includes work order loads before rate schedules, after rate schedules, or not at all. Values are:

1: The system generates work order loads before rate schedules.
2: The system generates work order loads after rate schedules.
Blank: The system does not recognize work order loads. |
| 2. From Operation Status | Use this processing option to specify the status the system uses for the work orders or rate schedules as the routing steps are completed. Operation status is a UDC (31/OS) that describes the status of a work order or rate schedule. Enter the operation status to use as the default value or select it from the Select User Define Code form. |
| 3. To Operation Status | Use this processing option to specify the operation status the system uses for the work orders or rate schedules as the routing steps are completed. Operation status is a UDC (31/OS) that describes the status of a work order or rate schedule. Enter the operation status to use as the default value or select it from the Select User Define Code form. |

Versions

Although processing options are set up during PeopleSoft EnterpriseOne implementation, you can change processing options each time you run a program.

- | | |
|----------------------------------|--|
| 1. Rate Revisions (P3109) | Use this processing option to specify the version the system uses when you select the row exit to the Enter/Change Rate Schedule program from the Work Center Schedule Review program. If you leave this field blank, the system uses the ZJDE0001 version of the Enter/Change Rate Schedule program.

Versions control how the Enter/Change Rate Schedule program displays information. Therefore, you might need to set the processing options to specific versions to meet the needs. |
|----------------------------------|--|

Reviewing Rate Schedule and Work Center Loads

Access the Work Center Schedule Review form.

Reviewing the Shop Floor Workbench for MRP

Access the Work With Order Scheduling form.

Shop Floor Workbench - Work With Order Scheduling

SelectFindCloseFormRowTools

Work Order InfoAdditional Selection Criteria

Item No.220Touring Bike, Red

Planner*

Customer*

Parent WO*

Status From10Status Thru99

Branch/PlantM30

Search X-Ref*

Records 1 - 5Customize Grid

	WO Number	Or Ty	Description	WO Status	Item Number	Branch/Plant	Quantity Open	UM	Secondary Qty Open	Sec UM
☐	451004	WO	Touring Bike, Red	45	220	M30	80.0000	EA		
☐	451194	WO	Touring Bike, Red	10	220	M30	11.0000	EA		
☐	451418	WO	Touring Bike, Red	95	220	M30	9.0000	EA		
☐	451426	WO	Touring Bike, Red	40	220	M30	1.0000	EA		
☐	453499	WO	Touring Bike, Red	10	220	M30	74.0000	EA		

Work With Order Scheduling form

- Planner

Enter the address book number of a manager or planner.
- Note.

A processing option for some forms enables you to enter a default value for this field based on values for category codes 1 (Phase), 2, and 3. You set up the default values on the Default Managers and Supervisors form. After you set up the default values and the processing option, the default information displays automatically on any work orders that you create if the category code criterion is met. You can either accept or override the default value.
- Customer

Enter a number that identifies an entry in the Address Book, such as employee, applicant, participant, customer, supplier, tenant, or location.
- Parent WO (parent work order)

Enter a number that identifies the parent work order. You can use this number to:
 - Enter default values for new work orders, such as *Type*, *Priority*, *Status*, and *Manager*.
 - Group work orders for project setup and reporting.
- Status From

Enter a UDC system 00, type SS, that describes the status of a work order. Any status change from 90 thru 99 automatically updates the date completed.
- Search X-Ref (search cross reference)

Enter an alphanumeric value used as a cross-reference or secondary reference number. Typically, this is the customer number, supplier number, or job number.
- Quantity Open

Enter the original quantity for the order detail line, plus or minus any changes to that quantity, minus all quantities shipped, received, and vouchered to date.

CHAPTER 10

Forecast Consumption

This chapter provides an overview of forecast consumption and discusses:

- Forecast consumption across multiple periods.
- Forecast consumption by customer.

See Also

Chapter 4, “Setting Up PeopleSoft Requirements Planning,” Setting Up Forecast Consumption, page 35

Understanding Forecast Consumption

Forecast consumption is based on the assumption that actual sales orders reduce, or consume, the forecasted quantities. This approach ensures that sales orders are not treated as additional demand to the forecast during a planning period. The plan begins with gross forecast. Actual sales orders are placed that consume the forecast. The result is an adjusted forecast—that is, the forecast balance not consumed by sales orders.

In PeopleSoft EnterpriseOne software, you have two types of forecast consumption strategies that are available to you:

- Forecast consumption by period (time fence rules C and G).
- Forecast consumption across multiple periods (time fence rule H).

Any of these options can be limited to forecast consumption by customer.

Forecast consumption by period only requires that you use planning fence rule C or G, and create a forecast for the item. The aggregate forecast will be reduced by the aggregate sale orders for a period.

Forecast consumption across multiple periods requires that you use planning fence rule H, create a forecast for the item, and define forecast consumption periods. These forecast consumption periods span multiple weekly or monthly planning periods or buckets. The aggregate forecast within the forecast consumption period is reduced by the aggregate sales order in the same period. This calculation includes shipped sales orders.

When you use the forecast consumption by customer functionality through processing options in requirements planning, the system only reduces the forecast quantities for specific customers by the sales order quantities for the same customer. If a customer does not have a customer-specific forecast, the system uses the aggregate forecast consumption logic.

Forecast Consumption Across Multiple Periods

Forecast consumption is associated with planning fence rule H.

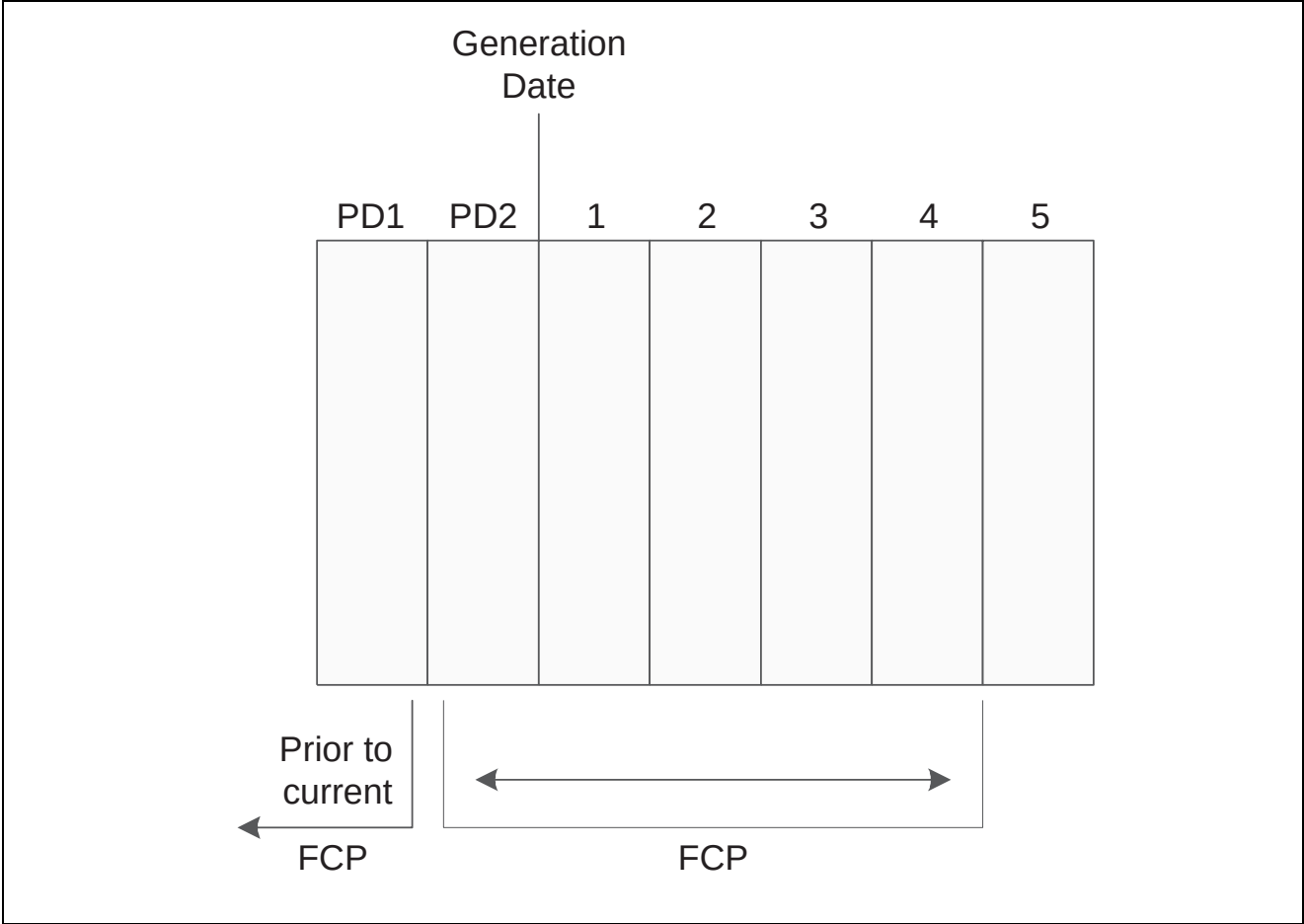
Forecast consumption periods (FCPs) are user-defined and stored in the Forecast Consumption Periods table (F3405). Within an FCP, the system processes sales orders against the gross (unadjusted) forecast (quantity type of -FCSU) on a first-in, first-out (FIFO) basis. The system creates additional time periods if the forecast end dates of the consumption period do not coincide with the period end dates of the time series.

The additional forecast consumption time periods are incremental to the number of time periods that are identified in the MRP/MPS Requirements Planning program (R3482). The total for all time periods cannot exceed 52.

The system only applies the forecast consumption calculations if you set the appropriate processing option for the Master Schedule Planning - Multiple Plant program (R3483). To use forecast consumption, an item's planning fence rule must be H, and the planning fence must be 999. These values are set on the Additional System Information form in the Item Master (P4101) or Item Branch (P41026) programs.

Past Due Time Buckets

The graphic illustrates that you can set the number of past due time buckets to 1 or 2:



Past due time buckets

Planning Horizon Time Periods

You can specify both forecast consumption and period end dates of the time series on the Work with Forecast Consumption Revision form. You specify the number of daily, weekly, and FCP periods that are included in the planning horizon in the processing option for the MPS - Gross Regeneration version of the MRP/MPS Requirements Planning program. The system does not allow more than 52 total time series and forecast consumption period buckets.

If you specify a number of planning horizon weeks in the processing options and the time series end does not coincide with a forecast consumption period end, the system creates another time series bucket to reflect the forecast consumption period.

If you define the forecast consumption periods by month and the forecast consumption period end does not coincide with the month-end date in the shop floor calendar, the system displays the forecast consumption date (not the month-end date) as a time series bucket.

You can set a processing option so that the system highlights all of the forecast consumption periods on Time Series Inquiry. This action helps you differentiate between the time series and the forecast consumption periods.

Forecast Consumption Calculation

You define forecast consumption periods to represent a period in which selected forecasts are partially or fully consumed, or over-consumed by sales orders. This action enables you to include more than one time series bucket in the calculation of the forecast consumption. That is, you can designate a longer period of time (the forecast consumption period) for the system to compare the gross forecasts to the combined gross sales orders and shipments.

With forecast consumption processing, the system uses these quantity types:

Quantity Type	Explanation
-FSCU	Unadjusted forecast quantity (gross) for a specific item from the detail forecast table.
-SOU	Actual sales orders from the sales order detail table.
-SO	Portion of total sales orders that consumes the forecast. -SO can exceed the forecast when sales orders are greater than forecast.
-SHIP	Shipments that occur within the forecast consumption period.
-FCST	Unconsumed forecast (net).
+WO, +PLO	Work orders and planned orders: replenishment orders that cover the net requirements.

In the next example, work orders for 50 and 135 units are open. The forecast is spread through the forecast consumption period and is consumed on a first in first out basis. $-SHIP + -SOU = \text{Total Demand}$ ($10 + 40 + 175 = 225$). Total Demand consumes FIFO; therefore, the beginning forecast is consumed and posted in the -SO line. The net balance of the forecast is posted in the -FCST line. Notice in the first three periods that the -FCST (net) has been reduced by a total of 225 pieces. The -SO indicates the amount that is consumed in each period and also totals 225 pieces. Work order messages suggest increasing +WOU from 50 to 85. Messages suggest expediting and decreasing +WOU in 6-30 from 135 to 100 in period June 17th. The forecast consumption period is monthly and indicated with the asterisk in the period. This feature is turned on when the processing options for the times series are set.

Qty Type	Weeks	Weeks	Weeks	Weeks	Weeks
	1	2	3	4	5
	6-03-05	6-10-05	6-17-05	6-24-05	* 6-30-05

Qty Type	Weeks	Weeks	Weeks	Weeks	Weeks
+BAU	75	15	-35	-135	-235
+BA	75	15			
+WOU		50			135
+WO		85	100		
-FSCU	60	100	100	100	80
-FCST			35	100	80
-SHIP	10				
-SOU	40				175
-SO	60	100	65		
=EAU	15	-35	-135	-235	-180
=EA	15				

You can set the number of past due time buckets to one or two. The first past due bucket (PD2) includes all activity that is scheduled to occur before the current generation date but within the current forecast consumption period. The second past due bucket (PD1) includes all activity that is scheduled to occur before the beginning of the current forecast consumption period.

If you use at least one past due period, the system calculates unconsumed quantity for the first time bucket as follows:

- Past due forecasts (-FCST prior to the generation date, but after the forecast consumption beginning date) are consumed by:
 - Past due sales orders (that have not shipped) that are within the forecast consumption period.
 - Sales orders that were shipped within the forecast consumption period, but prior to the generation date.
- Any remaining -FCST is added to the -FCST in the first bucket that is not past due.

Forecast Consumption by Customer

Forecast Consumption by Customer enhances the ability of a supplier to meet the requirements from large customers. When working with large customers, you might want to consider the demand for each customer separately and plan production quantities accordingly. You can set up the system to net forecasts and sales orders for a particular customer separately, so that you can plan more accurately for the specific demand coming from individual customers.

If you do not use the forecast consumption by customer functionality, you compare total sales with total forecast for a particular time period without considering individual customers. Calculating the difference between total forecast and sales yields a different result than calculating the difference between forecast and sales for an individual customer.

Note. If the system does not find a customer number in the forecast to match the customer number from the sales order, the sales order consumes generic forecast quantities.

To use forecast consumption by customer, you have to enter a forecast for a specific customer. In this case, the forecast record has a customer number in the Customer Number field. Based on the customer number, the system can search for sales orders with matching customer numbers in the ship-to or sold-to field to calculate the remaining demand for the customer. You specify whether the system uses to the ship-to or sold-to field from the sales order by setting a processing option or by defining a customer address relationship.

When you run the MRP/MPS Requirements Planning program, you can set up the program to use forecast consumption by customer. You can use this functionality for items that are defined with planning fence rule C, G or H. You cannot use forecast consumption logic for process items.

When you run the MRP/MPS Requirements Planning program and have activated the Forecast Consumption by Customer functionality, the program calculates the net difference between forecast and sales orders for a period for individual customers. The process consists of these steps:

- Check the Item Branch record for the item to see that the time fence rule is set to C, G or H.
- Read the Forecast File (F3460) and the Sales Order Header File (F4201) record for each customer.
- Compare sales orders and forecast for each customer to determine which is greater.

The greater value of the two is written to the Forecast File table as a new forecast record with a forecast type that indicates that it is the result of a Forecast Consumption by Customer calculation.

You can use the MPS Time Series program (P3413) to review the results of the calculation. The net forecast that results from the Forecast Consumption by Customer calculation is displayed as the adjusted forecast quantity (-FCST).

Note. You can use Forecast Consumption by Customer as well, if you are planning for multiple facilities, by using the Planning Schedule - Multiple Plant program. You can set the same processing options as for the MRP/MPS Requirements Planning program and determine, in addition, whether to consider interplant demand as customer demand.

Forecast Consumption by Customer Calculation

These tables illustrate the different results that are reached, depending on whether you differentiate by customer. The first table demonstrates the results of a calculation that does not differentiate by customer:

Customer	Sales Order	Forecast	Greater of Forecast and Sales Order
A	100	80	
B	400	375	
C	700	750	
Total	1200	1205	1205

In this calculation, you aggregate all of the sales orders and all of the forecasts for an item and compare the totals with each other. In this case, the total forecast is greater than the total sales order quantity. Therefore, the forecast becomes the total demand.

This table demonstrates the results of a calculation that nets each individual sales order against a forecast with matching customer number:

Customer	Sales Order	Forecast	Greater of Forecast and Sales Order
A	100	80	100
B	400	375	400
C	700	750	750
Total			1250

In this calculation, the sales order and forecast quantities are not totaled. Instead, each sales order is compared to a matching forecast. The greater quantity in each comparison is added to the total demand. In this case, the total demand is greater than if the first method had been used.

Forecast Consumption by Customer Considerations

In order to use Forecast Consumption by Customer, you need to consider:

- Set up a forecast type for forecast consumption by customer in the UDC table 34/DF (Forecast Type).
- Set up a version of the MRP/MPS Requirements Planning program by using these processing options:
 - Set the Forecast Consumption Logic processing option for using forecast consumption by customer.
 - Specify the forecast type to be used for forecast consumption by customer.
 - Specify whether the system uses the sold-to or the ship-to number on the sales order when searching for sales orders to net against a forecast.
- If you use multi-facility planning, set up a version of the Master Planning Schedule - Multiple Plant by using these processing options:
 - Set the Forecast Consumption Logic processing option for using forecast consumption by customer.
 - Specify the forecast type to be used for forecast consumption by customer.
 - Specify whether the system uses the sold-to or the ship-to number on the sales order when searching for sales orders to net against a forecast.
 - Specify whether the system treats interplant demand as customer demand consumes the forecast.
 - Ensure that the items for which you are creating a requirements plan are defined with planning fence rule C, G or H.

CHAPTER 11

Working With Multi-Level Master Schedules

This chapter provides an overview of multi-level master schedules and discusses how to:

- Set up a feature planned percentage
- Generate a multi-level master schedule

Understanding Multi-Level Master Schedules

multi-level master schedules support assemble-to-order production and delivery.

You set up and generate multi-level master schedules to:

- Define demand information on a family basis and make changes as needed.
- Define planning bills to acquire the options and features that you expect to sell.

When several material purchasing options are available, the planners can make informed decisions within the available time frame. The system uses planning bills to notify planners when special attention is needed.

- Update a product plan with a change in customer demand or design specifications.
- Customize the schedule generation to include only the information that you require.
- Explode planned orders down to component items.

Setting Up a Feature Planned Percentage

This section provides an overview over planning bills and discusses how to set up a feature planned percentage.

Understanding Planning Bills

Planning bills are groups of items in a bill of material format that reflect how an item is sold. Planning bills help you manage the acquisition of a variety of options and features that might be included in a saleable end item.

Planning bills enable you to configure a pseudo end item. For a pseudo item, you do not have to assign a unique part number or maintain a bill of material for every combination of options and features that might be included in the end product.

You define planning bills to acquire the options and features in the proportion that you expect to sell. A final assembly schedule coordinates the material selection and assembly after you order the product options.

Example: Automobile with two engine options

A part number can be assigned to the engine feature for planning purposes. The two engine options cannot be assembled together, so the engine feature never actually exists in inventory. It is a pseudo item.

A stocking type of K identifies that the parent (automobile) is planned for in the same way as a kit. The feature item (engine) has a stocking type of 0 (phantom). Phantoms call for a special type of processing for which the leadtime is zero and the order policy is lot-for-lot.

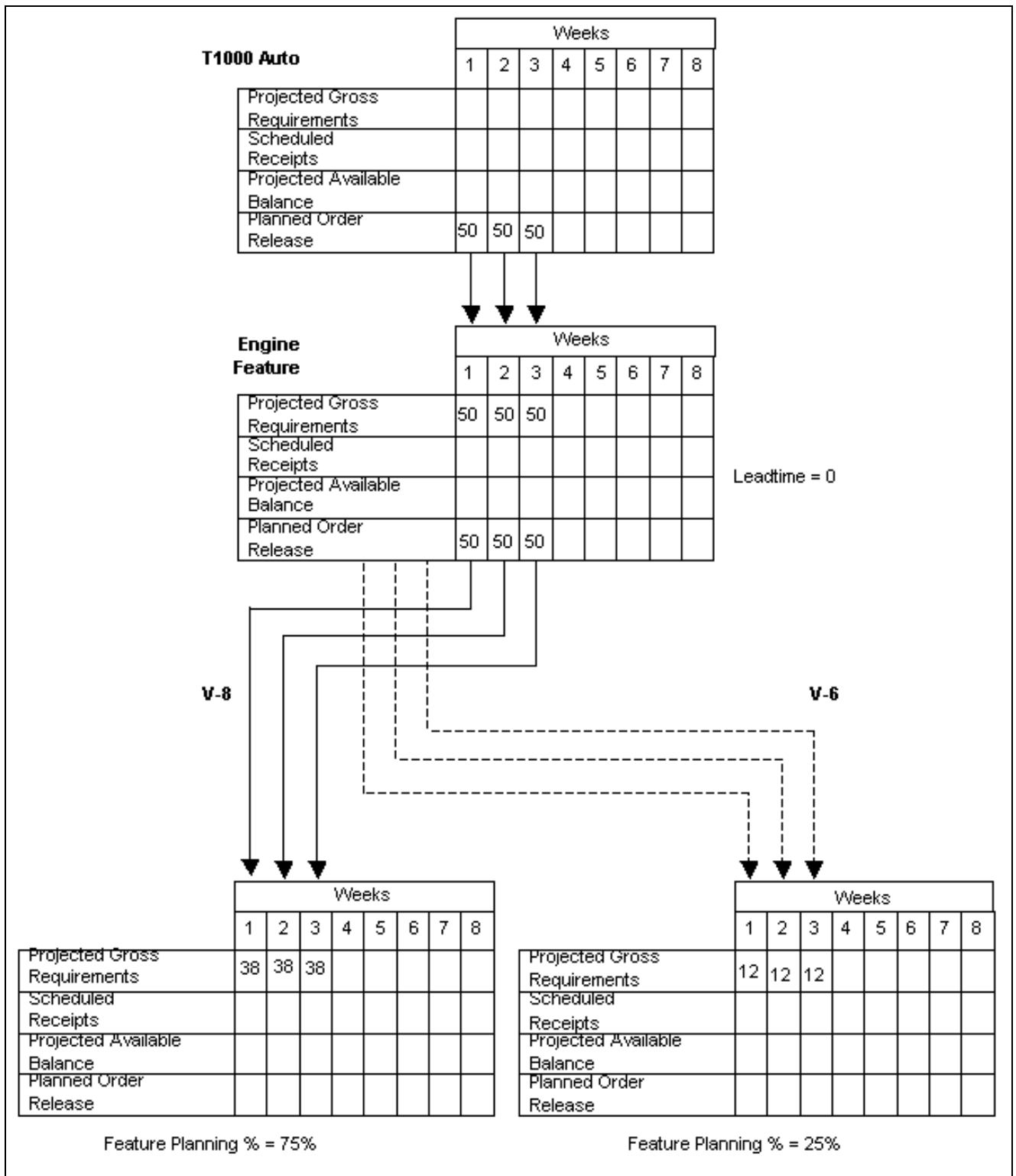
The planner does not know which automobile will ship with which engine next month, but the ratio of engine types consumed is predictable. The planning bill of material identifies the percentages of each type of engine that you expect to ship.

By exploding this bill against the master schedule for the planning family of automobiles, the system can calculate the total requirements for each type of engine.

Example: Exploding Planned Orders

In this example, the system uses phantom processing to pass planned order releases from the parent (T1000 automobile) directly through to the planned order releases of the engine feature. The system uses the feature planning percentages to explode the planned order releases for the engine feature down to the gross requirements for V-8 and V-6 engines.

This graphic depicts how feature planned percentages are used to explode a planned order release down to gross requirements:



Exploding Planned Orders

Form Used to Set Up Feature Planned Percentages

Form Name	Form ID	Navigation	Usage
Enter Bill of Material Information	W3002A	Daily PDM Discrete (G3011), Enter/Change Bill	Define the feature percentage for an item that is used for planning requirements

Setting Up a Feature Planned Percentage

Access the Bill of Material Revisions form.

Feat Plan % (feature planned percentage)

Enter the percentage of demand for a specified feature based on projected production. For example, a company might produce 65 percent of their lubricant with high viscosity, and 35 percent with low viscosity, based on customer demand.

Material Planning uses this percentage to accurately plan for a process's co-products and by-products. Enter percentages as whole numbers, for example, enter 5 percent as *5.0*. The default value is *0* percent.

Generating a Multi-Level Master Schedule

This section provides an overview of multi-level master schedule generation and discusses how to run the MPS Regeneration for multi-level schedules.

Understanding Master Schedule Generation

When you run the MPS - Gross Regeneration version of the MRP/MPS Requirements Planning program (R3482), the system compiles a master schedule. Select the MPS - Net Change version of the MRP/MPS Requirements Planning program when you want to include only those items that have changed since the last generation. You can create a version of the MRP/MPS Requirements Planning program specifically for multi-level master scheduling.

When you generate a multi-level master schedule, the system explodes planned orders to the bill of material component and identifies the percentages of all component items. By exploding the bill of material against the total number of expected sales of a parent item, you can obtain the total requirements for each item at each level in the bill of material.

When you generate a master schedule, the system evaluates selected information, performs calculations, and recommends a time-phased planning schedule for all selected items.

Running the MPS Regeneration for Multi-Level Schedules

From the Single Site Periodic Planning Operations menu (G3422), select MPS Regeneration.

CHAPTER 12

Planning for Process and Repetitive Manufacturing

This chapter provides an overview of planning for process and repetitive manufacturing and discusses how to:

- Generate a master planning schedule for batch bills.
- Generate a master planning schedule for processes.
- Generate a master planning schedule for repetitive items.

Understanding Planning for Process Manufacturing

Process manufacturing results in products such as liquids, fibers, powders, or gases. Pharmaceuticals, foodstuffs, and beverages are typical examples of process products. Products such as these are usually manufactured by a two-step process:

- Mixing or blending
- Filling or packaging

These kinds of products might involve intermediate steps, such as curing, baking, or preparation.

Process manufacturing uses ingredients and bills of material. Ingredients can be either consumed or produced during the manufacturing process. In a process bill of material, the quantity of a component can vary, according to its grade or potency.

Unique features of process manufacturing are:

- Pacing co-products.
- Planned co-products (by-products are unplanned).
- Additional processing options in MPS/MRP.

Process manufacturing produces co-products and by-products. A co-product is a saleable end item that results from a process. A by-product is a material of value that is produced incidental to or as a residual of the process.

The different types of process manufacturing are:

- Batch
- Continuous

In batch processing, you usually produce a product in a standard run or lot size determined by vessel size, line rates, or standard run length. Because of the life cycle of the product after its completion, you typically schedule items made this way in short production runs. Co-products and by-products can be generated during batch processing. Typical items produced with batch processing include:

- Pharmaceuticals
- Foods
- Inks and paints
- Glues
- Oil or chemical products

In the continuous flow environment, production runs typically continue for an extended duration. Equipment is dedicated to one product or product line. This method of manufacturing is characterized by difficulty in matching output volume with demand and varying yield from process operations. Examples are petroleum-based products and water purification. Co-products and by-products are generally more prevalent in continuous processing than in batch processing.

MPS calculates the time series for co-products. Demand for the co-product generates MPS order messages to drive the production process. Co-products that are fully satisfied by the process do not receive order messages. Processes might also make a by-product that has value but is not the central purpose of the process. For example, the lubricant process has co-products of household lubricant and graphite lubricant, and a by-product of sludge. The lubricant would not be processed primarily to obtain sludge.

Usually, both batch and continuous processing methods require extensive record keeping, such as recording quality and tolerance values during the process, and strict adherence to lot tracing and tracking.

Batch Planning

With batch manufacturing, a product is made from a bill of material in a standard run. The run is determined by vessel size or standard run length. Typical products that use batch manufacturing include:

- Pharmaceuticals
- Foods
- Glues
- Fermented beverages
- Paints

The objective for batch manufacturing is to process work orders with a batch quantity that corresponds to a batch bill of material and to use these orders for Material Requirements Planning (MRP) processing. Just as the bill type uniquely defines a bill of material, you can use the batch quantity with bill type to further define a unique bill.

With this manufacturing method, some restrictions on capacity determine the size of the batch produced. For example, you might need to fill the vats to a certain level for the process to perform properly.

In addition, the system specifically defines the component quantities for the batch. For example, a 50-gallon vat requires a given quantity of one component, but the system does not necessarily double the component for a 100-gallon vat. Such components are often enzymes or catalysts.

Vats are often physically located close to a more repetitive downstream process. For example, in the manufacture of bread, dough is mixed and left to rise in a vat before formed into individual loaves and sent for baking and packaging.

You often express units of measure for batches in terms of volume or weight, such as liters or kilograms.

After you create a batch bill of material and batch routing for the work order header, you process the batch work order to attach the parts list and routing instructions to the work order header. Then you generate a master schedule of batch work orders and review the output.

Understanding Planning for Repetitive Manufacturing

Use repetitive manufacturing for highly repetitive production that relies on a production rate. Repetitive manufacturing enables you to specify a rate schedule by effective date in daily, weekly, or monthly quantities.

Repetitive manufacturing has these characteristics:

- Production volume is stable and predictable.
- Leadtime is short.
- Factory layout is product-oriented and often characterized as cellular manufacturing in which dissimilar operations are physically grouped so that the product flows rapidly from one operation to the next.
- Setups are short so that switching between products does not significantly affect the time available for production.
- Group technology is often incorporated into the design engineering and manufacturing engineering to accommodate some variety with little affect on cost or production speed.
- Unit of measure is often each. However, it can also be volume- or weight-related when it is used in an environment that is similar to process manufacturing (as opposed to discrete).

Examples of repetitive products are:

- Electronic goods.
- Automobiles.
- Durable consumer goods (washing machines, refrigerators, and so on).

Generating a Master Planning Schedule for Batch Bills

This section provides an overview of MPS generation for batch bills and discusses how to generate MPS for batch bills.

Understanding MPS for Batch Bills

Use the MPS - Gross Regeneration version of the MRP/MPS Requirements Planning program (R3482) to generate a master schedule for all items or for selected items. This program functions differently, depending on whether more than one batch bill exists.

If only one batch bill exists, Master Production Scheduling (MPS) uses the batch quantity as follows:

- As a multiple, if the net requirements are greater than the batch quantity.
- As a minimum, if the net requirements are less than the batch quantity.

In either case, the program generates a separate planned order for each batch quantity.

For example:

Batch Quantity	MPS Requirement	Resulting MPS Planned Order
1000	1500	1000 1000
1000	967	1000

For example, if the batch quantity is 1000 and the MPS requirement is:

- 1500, the program generates two planned orders for 1000 each.
- 967, the program generates a planned order for 1000.

If one batch bill is greater than all of the batch quantities, the program uses the largest batch quantity in combination with any of the other quantities to most accurately satisfy the requirement.

For example:

Batch Quantity	MPS Requirement	Resulting MPS Planned Order
400 600 800 1000	1500	1000 600
400 600 800 1000	3000	1000 1000 1000

For example, batch quantities are:

- 400
- 600
- 800
- 1000

MPS requirement is for 1500.

The program generates a planned order for 1000 and a planned order for 600. Using the batch quantities, 1600 is the quantity that most accurately satisfies the requirement.

If multiple batch bills exist and the net requirement is less than the largest batch quantity, the program uses the next highest batch quantity to satisfy the requirement.

For example:

Batch Quantity	MPS Requirement	Resulting MPS Planned Order
400	780	800
600		
800		
1000		

For example, batch quantities are:

- 400
- 600
- 800
- 1000

MPS requirement is for 780.

The program generates a planned order for 800.

After you generate a master schedule, use MPS Time Series (P3413) and MRP/MPS Detail Message Revisions (P3411) to review the time series and messages from the MPS generation.

The time series is a record of time-phased supply and demand netting for selected items. The messages reflect how the system uses batches to generate order quantities for net requirements for each time period.

See Also

PeopleSoft EnterpriseOne Product Data Management 8.11 PeopleBook, “Setting Up Bills of Material”

[Chapter 8, “Planning Material Requirements,” Setting Processing Options for MRP/MPS Requirements Planning \(R3482\), page 82](#)

Generating MPS for Batch Bills

From the Single Site Periodic Planning Operations menu (G3422), select MPS Regeneration.

Generating a Master Planning Schedule for Processes

This section provides an overview of MPS Generation for processes, lists prerequisites, and discusses how to generate a master planning schedule for processes.

Understanding MPS Generation for Processes

After you generate a master schedule, use the Time Series - MPS version of MPS Time Series and the Message Detail - MPS version of MRP/MPS Detail Message Revisions to review the time series and messages that the system generates.

Many processes produce multiple co-products. In each time period, whichever co-product has the greater demand is the pacing co-product. For example, a process might produce both plastic and ethylene glycol (anti-freeze). If greater demand for plastic in a time period exists, the system plans for the process based on the demand for plastic, which might result in excess antifreeze production.

The time series is a record of time-phased supply and demand netting for selected co- and by-products. Co-products that are fully satisfied by the process do not receive order messages. Instead, the system creates warning messages for co-products that are planned by a process.

Note. Process item numbers do not have a time series.

Once you have defined the stocking types, and co- and by-products for the process, you can then generate and review a master schedule of all process work orders and output. This output consists of time series and messages for the co-products and by-products.

Prerequisites

Before you complete the tasks in this section:

- Define co- and by-products for the process.
- Set up stocking type for process.

See *PeopleSoft EnterpriseOne Product Data Management 8.11 PeopleBook*.

Forms Used to Validate Master Planning Schedules for Processes

Form Name	Form ID	Navigation	Usage
Work With Time Series	W3413A	MPS Daily Operations menu (G3412), MPS Time Series/ATP Inquiry.	Review time-phased supply and demand quantities
Work With Detail Messages	W3411D	MPS Daily Operations (G3412), MPS Detail Message Review.	Review detail messages generated by this version Requirements Planning Regeneration (R3482).

Generating a Master Planning Schedule for Processes

From the Single Site Periodic Planning Operations menu (G3422), select MPS Regeneration.

Generating a Master Planning Schedule for Repetitive Items

This section provides an overview of MPS generation for repetitive items, lists prerequisites, and lists the forms used to validate the planning output.

Understanding MPS Generation for Repetitive Items

When you run the MPS - Net Change or MPS - Gross Regeneration versions of the MRP/MPS Requirements Planning program, the system:

- Evaluates selected information.
- Performs calculations.
- Generates a time series and messages for the selected items.

To generate the Master Production Schedule for repetitive items:

- Set the processing options to generate the master production schedule.
- Enter the type of rate schedule that you want to use for processing.
- Set the appropriate processing option to extend rate adjustments to lower-level items.

After you generate a master production schedule, use MPS Time Series and MRP/MPS Detail Message Revisions to review the time series and messages that the system has generated.

The time series is a record of time-phased supply and demand netting for selected items. The system links the planned order releases for the parent item to the gross requirements of component items.

If a component does not have its own rate schedule, the system applies the demand from the parent item. The demand from the rate-scheduled parent follows the same logic as regular work orders. When a rate schedule is added for a component of a rate-based parent, the calculation includes the information for the component in both the rate schedule (+RS) and unadjusted rate schedule (+RSU) data lines. The component is processed as supply, and regular MRP logic applies.

The messages reflect how the system uses rate-scheduled items to generate quantities for net requirements for each time period. The MPS/MRP program produces three main action messages that pertain to repetitive items:

Message	Description
I = Increase rate to	Updates an existing rate to the increased quantity.
H = Decrease rate to	Updates an existing rate to the decreased quantity.
N = Create rate	Treats messages as a group from the MPS/MRP Detail Message Review form. You can answer more than one message at a time. Instead of creating a single rate for a given schedule period type over a date range, the system creates a series of rates to cover the entire period. For instance, instead of having one weekly rate in effect for four weeks, the system creates four weekly rates, each in effect for a week. When you process a Create Rate message, the system can attach the parts list and routing automatically.

When the system processes messages to update rates (I and H messages), it does not check the validity of the dates that are received. The MPS/MRP regeneration produces messages with valid dates. However, you can change these dates before processing the message. To avoid updating invalid rates, ensure the validity of the dates that you enter whenever you change message dates before processing.

Note. Non-repetitive items use lead time to backschedule the start date of an order. A repetitive item does not use this logic. Repetitive items use the Rates Effective From and Thru Dates for backcheduling.

See Also

PeopleSoft EnterpriseOne Shop Floor Management 8.11 PeopleBook, “Setting Up Shop Floor Management,” Setting Up Item-to-Line Relationships

PeopleSoft EnterpriseOne Product Data Management 8.11 PeopleBook, “Entering Work Centers and Routing Instructions”

Prerequisites

Before you complete the tasks in this section:

- Stocking Type should be set to *M* for manufactured item.
- Order Policy Code should be set to 5 (Rate Scheduled Item).
- Order Policy Value should be set to define the length of the rate schedule.
- Ensure that all routings are set up.
- Ensure that all production lines are identified.
- Ensure that all rate schedules are set up.

Forms Used to Validate Master Planning Schedules for Repetitive Items

Form Name	Form ID	Navigation	Usage
Work With Time Series	W3413A	MPS Daily Operations menu (G3412), MPS Time Series/ATP Inquiry.	Review time-phased supply and demand quantities
Work With Detail Messages	W3411D	MPS Daily Operations (G3412), MPS Detail Message Review.	Review detail messages generated by this version Requirements Planning Regeneration (R3482).

CHAPTER 13

Working With Multi-Facility Planning

This chapter provides an overview of multi-facility planning and multi-facility forecast consumption and discusses how to:

- Generate multi-facility requirement plans.
- Validate multi-facility planning output.

Understanding Multi-Facility Planning

In a multi-facility operation, planned orders at the demand facility are the source of demand at the supply facility. You set up and maintain multi-facility plans to:

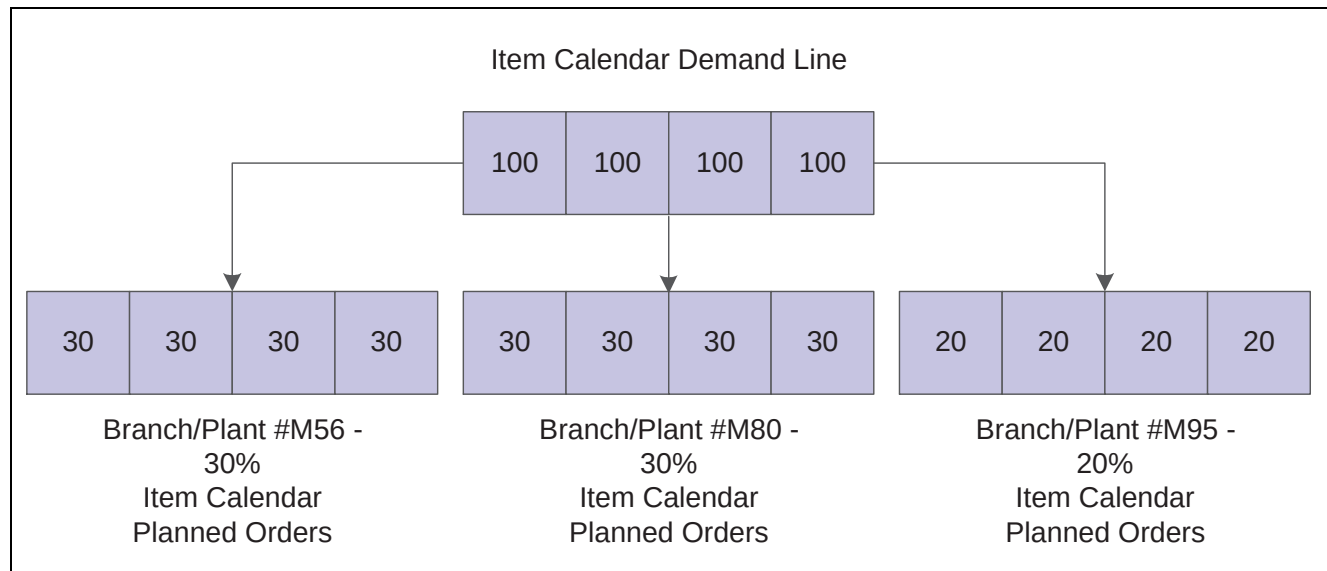
- Manage the movement of material through distribution networks and multiple production facilities.
- Formalize the process of transferring items among the facilities.
- Create internal transfer orders to help ensure traceability of materials and their costs between facilities.
- Ensure that the facility from which you are ordering has enough inventory in stock to fill the order or schedule the supply plant to produce it.
- Schedule production according to realistic time frames.
- Use assembly lines at one plant to begin the assembly of a product and a different plant for final assembly.
- Handle all resupply movements throughout the manufacturing network.

Multi-facility plans enable greater control of the enterprise. You can define facility relationships at any level of detail for an entire facility, a product group, master planning family, or an individual item number. In addition, you can incorporate all the facilities into a single plan.

In Material Requirements Planning (MRP), the system transfers items among the manufacturing plants at the component level. The system transfers component items by generating:

- Purchase orders at the demand plant for the supply plant.
- Sales orders from the demand plant at the supply plant.

In this example, the demand plant (M55) receives components from three different supply plants. Supply plants can also manufacture the end deliverable item. This graphic illustrates multi-facility plan:



Multi-Facility Planning

Understanding Multi-Facility Forecast Consumption

Multi-facility forecast consumption in Material Requirements Planning (MRP) is a process to reduce the forecast quantity through the number of sales orders and shipped orders. The goal of forecast consumption is to have the forecast quantity be greater than the total of sales orders and shipped orders. The forecast quantity is consumed either fully or partially. For example, when the sales order quantity is greater than the forecast quantity, then the forecast quantity is fully consumed. The option that you select is dependent on the need to forecast interplant demand.

The system uses quantity types (34/QT) for multi-facility consumption:

Quantity Type	Description
-FIDU	Firm interplant (unadjusted). This quantity type represents orders for transfer sales that the system generates. This quantity does not use planning messages to increase, decrease, expedite, or defer the orders.
-FID	Firm interplant demand. This quantity type represents orders for transfer sales that the system generates. This quantity uses planning messages to increase, decrease, expedite, or defer the orders.
-TIU	Total independent demand (unadjusted). This quantity type represents the total quantity that the system uses to consume forecast when you use forecast consumption. When you compare customer demand to forecast quantity (for example, the G or the C planning rule), -TIU is the quantity that the system uses as customer demand. This quantity might or might not include interplant demand (-ID and -FID). Interplant demand depends on the Interplant Demand processing option for the Master Planning Schedule - Multiple Plant program (R3483).

Quantity Type	Description
-TI	Total independent demand. This quantity type represents the quantity for customer demand after the system runs forecast consumption logic.
-ID	Interplant demand. This quantity type represents the quantity of demand that the system generates to support another facility's requirements.

Calculations

If the Interplant Demand processing option for the Master Planning Schedule - Multiple Plant program (R3483) is on, the transfer orders consume the supply plant's forecast. The system does not plan the transfer orders again. The system uses these calculations when the Interplant Demand processing option is on:

- $-TIU = (-SOU) + (-ID) + (-FID)$
- $+PLO = (-FSCT) + (-TI)$

If the Interplant Demand processing option is off, the system processes the transfer orders as additional demand for the supply plant. The system uses these calculations when the Interplant Demand processing option is off:

- $(TIU) = (-SOU)$
- $+PLO = (-FSCT) + (-FID) + (-TI) + (-ID)$

Additional Options for Multi-facility Forecast Consumption

To have interplant demand consume forecast, you need to add the transfer order type to UDC (UDC) table 40/CF. The system then accumulates ship-confirmed transfer orders to accumulate in the -SHIP quantity type while still using the orders to consume forecast. Also, regardless of the Interplant Demand processing option, the system processes interplant demand consistently whether the order is planned demand or firm demand. For example, interplant demand either consumes or does not consume forecast.

If you do not want to use the new quantity types, you can make a copy of the 34/QT table with the necessary quantity types. The system completes the calculations but does not display them on the time series. The system displays results when you remove quantity types:

Quantity Type	Description
-FIDU	The system does not write the orders to the time series.
-FID	The system writes the orders to the -ID quantity type.
-TIU	The system does not write the orders to the time series.
-TI	The system writes the orders to the -SO quantity.

Generating Multi-Facility Requirements Plans

This section provides an overview of multi-facility plan generation, lists the prerequisite, and discusses how to:

- Run the Master Planning Schedule - Multiple Plant program (R3483).

- Set processing options for Master Planning Schedule - Multiple Plant (R3483).

Understanding Multi-Facility Plan Generation

After you have set up the supply and demand relationships among the branch/plants, you can use the Distribution Requirements Planning (DRP), Master Production Scheduling (MPS), and Material Requirements Planning (MRP) gross regeneration versions of Master Planning Schedule - Multiple Plant (R3483) to generate a multi-facility plan. Alternatively, you can use the DRP, MPS, and MRP net change versions of Master Planning Schedule - Multiple Plant to generate a multi-facility plan.

When you generate a multi-facility plan, the system evaluates selected information, performs calculations, and recommends a time-phased plan for all selected items.

Prerequisite

Set up DRP/MPS multi-facility planning.

Running the Master Planning Schedule - Multiple Plant (R3483) program

Use one of these navigations:

- From the Multi-Facility Planning menu (G3423), select MPS Regeneration.
- From the Multi-Facility Planning menu (G3423), select MRP Regeneration.

Setting Processing Options for Master Planning Schedule - Multiple Plant (R3483)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Horizon

These processing options specify dates and time periods that the program uses when it creates the plan.

- | | |
|------------------------------------|--|
| 1. Generation Start Date | Use this processing option to specify the date for starting the planning process. This date is also the beginning of the planning horizon. |
| 2. Past Due Periods | |
| 3. Planning Horizon Periods | |
| Number of planning days | Use this processing option to specify the number of days from the horizon start date for which you want to see daily planning data. |

Number of planning weeks	Use this processing option to specify the number of weeks for which you want to see weekly planning data, following the daily data.
Number of planning months	Use this processing option to specify the number of months for which you want to see monthly planning data, following the weekly data.

Parameters

Use these processing options to define processing criteria. The generation type selection is important:

- Generation Type 1, single-level MPS/DRP. You can use this generation type either in a distribution environment for purchased parts with no parent-to-component relationship, or in a manufacturing environment with parent-to-component relationships. When you use this generation type, the system performs these actions:
 - Produces a time series for each item that you specify in the data selection with a Planning Code of *1* on the Plant Manufacturing Data tab of the Work with Item Branch form. This code indicates whether the item is manufactured or purchased.
 - Does not explode demand down to the components for manufactured items. Use generation type *1* if you first want to process only the master-scheduled end-items. Thus, you can stabilize the schedule before placing demand on the components.
 - Does not create pegging records.
- Generation Type 3, multilevel MPS. This generation type is an alternative to generation type 1 and performs a complete top-to-bottom processing of master-scheduled items. For all parent items that you specify in the data selection, the program explodes demand down to the components. You must specify all of the items to be processed in the data selection, not just the parent items. The program also creates pegging records.
- Generation Type 4, MRP with or without MPS. This generation type performs the same functions as generation type 3. After you perform a complete generation and stabilize the master schedule, you can limit data selection to MRP items (with planning codes of 2 or 3), thereby reducing processing time. This action is possible because the system still stores demand from the master-scheduled items in the MPS/MRP/DRP Lower Level Requirements File table (F3412).
- Generation Type 5, MRP with frozen MPS. This generation type freezes the master schedule after it has been stabilized. Before using this generation type, make all necessary adjustments to master-scheduled items and release orders to provide supply for the demand. This generation type freezes the entire planning horizon, which is similar to the way the freeze fence freezes a part of the horizon. Running this generation type produces results, which apply to MPS items only:
 - No new orders will be planned.
 - No messages for existing orders will be created.
 - The adjusted ending available quantity can be negative.
 - Demand is only exploded down to components from existing work orders. No -PWO demand from parent items exists; only -FWO demand exists.

1. Generation Mode Enter the generations mode.

A gross regeneration includes every item specified in the data selection. A net change includes only those items in the data selection that have changed since the last time you ran the program.

Values are:

1: Net change

2: Gross regeneration

2. Generation Type

Enter the generation type.

Please see the help for the Parameters tab for detailed information.

Values are:

1: Single-level MPS/DRP

3: Multi-level MPS

4: MRP with or without MPS

5: MRP with frozen MPS

3. UDC Type

Use this processing option to specify the UDC table (system 34) that contains the list of quantity types to be calculated and written to the Time Series table (F3413). Default = *QT*.

4. Version of Supply/Demand Inclusion Rules

Use this processing option to define which version of supply/demand inclusion rules the program reads. These rules define the criteria used to select orders for processing.

On-Hand

These processing options define how the program calculates on-hand inventory.

1. Include Lot Expiration Dates

Use this processing option to specify whether the system considers lot expiration dates when calculating on-hand inventory. For example, if you have 200 on-hand with an expiration date of August 31, 2005, and you need 200 on September 1, 2005, the program does not recognize the expired lot and creates a message to order or manufacture more of the item to satisfy demand.

Values are:

Blank: Do not consider lot expiration dates when calculating on-hand inventory.

1: Consider lot expiration dates when calculating on-hand inventory.

2. Safety Stock Decrease

Use this processing option to specify whether to plan based on a beginning available quantity from which the safety stock quantity has been subtracted.

Values are:

Blank: Do not decrease

1: Decrease

3. Receipt Routing Quantities

Enter a value.

In a manufacturing environment, sometimes it is necessary to establish where stock is, in order to determine whether or not it is available for immediate use. Enter *1* if you want quantities in transit to be included in the Beginning Available calculation on the time series. Otherwise, the program includes these quantities in the In Receipt (+IR) line of the time series. The quantities are still considered available by this program. The difference is only in how you view the quantities in the time series.

Values are:

Blank: Do not include in on-hand inventory.

1: Include in on-hand inventory.

Quantity in Inspection

Use this processing option to specify whether to include quantities in inspection when the system calculates the Beginning Available amount. Otherwise, the system includes these quantities in the In Receipt (+IR) line of the time series. The system still considers the quantities available, but the way in which you view the quantities in the time series differs. Values are:

Blank: Do not include quantities in on-hand inventory

I: Include quantities in on-hand inventory.

User Defined Quantity 1

Enter a value.

In a manufacturing environment, sometimes it is necessary to establish where stock is, in order to determine whether or not it is available for immediate use. Enter *I* if you want these user-defined quantities (defined on Receipt Routings Revisions in the Update Operation 1 field) to be included in the Beginning Available calculation. Otherwise, the program includes these quantities in the In Receipt (+IR) line of the time series. The quantities are still considered available by this program. The difference is only in how you view the quantities in the time series.

Values are:

Blank: Do not include in on-hand inventory.

I: Include in on-hand inventory.

User Defined Quantity 2

Enter a value.

In a manufacturing environment, sometimes it is necessary to establish where stock is, in order to determine whether or not it is available for immediate use. Enter *I* if you want these user-defined quantities (defined on Receipt Routings Revisions in the Update Operation 2 field) to be included in the Beginning Available calculation. Otherwise, the program includes these quantities in the In Receipt (+IR) line of the time series. The quantities are still considered available by this program. The difference is only in how you view the quantities in the time series.

Values are:

Blank: Do not include in on-hand inventory.

I: Include in on-hand inventory.

4. Lot Hold Codes (up to 5)

Use this processing option to specify the lots to be included in the calculation of on-hand inventory. You can enter a maximum of 5 lot hold codes (41/L).

Blank: Include no held lots in calculation of on-hand inventory.

*: Include all held lots in calculation of on-hand inventory.

5. Include Past Due Rates as a supply

Use this processing option to specify whether the system considers open quantity from past due rate orders as supply. If you enter *I*, open quantities from past due rate orders are included in the rate schedule unadjusted (+RSU) line as well as the rate schedule adjusted (+RS) line of the Master Planning Schedule - Multiple Plant program (R3483). Values are:

Blank: Do not consider past due orders as supply.

I: Consider past due orders as supply.

Forecasting

These processing options serve two purposes:

- They determine which forecast types the program reads as demand.
- They initiate special logic for forecast consumption.

1. Forecast Types Used (up to 5)

Enter forecast types.

Forecasts are a source of demand. You can create forecasts using 12 different forecast types (34/DF) within the Forecasting system. One is considered the Best Fit (BF) type compared to an item's history of demand. Use this processing option to define which forecast quantities created by which forecast type are included in the planning process. Enter multiple values with no spaces, for example: *0102BF*.

2. Forecast Consumption Logic

Use this processing option to specify whether the system uses forecast consumption. If you use forecast consumption, any sales order due in the same period as the forecast is included as part of the forecast for that period. The sales order is not considered an additional source of demand. For forecast consumption to be used, the planning fence rule for the item must be *H* and the planning fence must be *999*. You enter these values on the Plant Manufacturing Data form.

Note. When you use forecast consumption, the system applies forecast consumption logic to the aggregate sales order and forecast quantities.

Blank: Do not use forecast consumption.

I: Use forecast consumption.

3. Interplant Demand Consumes Forecast

When using forecast consumption, use this processing option to specify whether to use interplant demand to consume forecast. When using any other planning rule, you can use this option to specify whether to consider interplant demand as customer demand. When the option is set, the system considers interplant demand for firm and planned transfer orders.

When the option is blank, the system ignores interplant demand by forecast consumption or planning rules and considers interplant demand as a separate source of demand. Values are:

Blank: Do not consider interplant demand as customer demand.

I: Consider interplant demand as customer demand.

4. Forecast type for forecast consumption by customer

Use this processing option to specify the forecast type (34/DF) that the system uses to create a forecast for the actual daily demand by customer. This processing option applies when you set the Forecast Consumption Logic processing option to 2 (Forecast Consumption by Customer). This value cannot equal the value in the Forecast Types Used processing option.

5. Default Customer Address Relationship for Forecast Consumption by Customer

Use this processing option to specify which address book number on the sales order that the system uses for calculation when you use forecast consumption by customer logic. Values are:

I: Use the ship to address book number.

2: Use the sold to address book number.

Document Types

These processing options establish default document types.

1. **Purchase Orders** Enter a value.
When you receive messages related to purchase order creation, this document type will appear as the default. The default value is *OP*.
2. **Work Orders** Enter a value.
When you receive messages related to work order creation, this document type will appear as the default. The default value is *WO*.
3. **Rate Schedules** Enter a value.
When you receive messages related to rate schedule creation, this document type will appear as the default. The default value is *AC*.

Lead Times

These processing options let you specify safety lead times to allow extra time for delays in receipt or production. Use damper days to filter out unwanted messages.

1. **Purchased Item Safety Lead Time** Enter a value.
For items with stocking type P, the program adds the value you enter here to the item's level lead time to calculate the total lead time.
2. **Manufactured Item Safety Lead Time** Enter a value.
For items with stocking type M, the program adds the value you enter here to the item's level lead time to calculate the total lead time.
3. **Expedite Damper Days** Use this processing option to specify the number of days before the system generates an expedite message. If the number of days between the date when the order is actually needed and the due date of the order is less than the number of days entered here, the system does not generate an expedite message.
4. **Defer Damper Days** Use this processing option to specify the number of days before the system generates a defer message. If the number of days between the date when the order is actually needed and the due date of the order is less than the number of days entered here, the system does not generate a defer message.

Performance

These processing options define output and specify conditions that might decrease processing time.

1. **Clear F3411/F3412/F3413 Tables** Use this processing option with extreme caution! If you enter *1*, all records in the MPS/MRP/DRP Message table (F3411), MPS/MRP/DRP Lower Level Requirements (Pegging) table (F3412), and MPS/MRP/DRP Summary (Time Series) (F3413) table are purged.

Access to this program should be limited. If multiple users run this program concurrently with this processing option set to *1*, a record lock error results and prevents complete processing.

Values are:

Blank: Do not clear tables.

2. Input the Branch/Plant Where Planning Tables Will Be Cleared

1: Clear tables.

Use this processing option to specify which Branch/Plant records in the MPS/MRP/DRP Message File table, MPS/MRP/DRP Lower Level Requirements File table, and the MPS/MRP/DRP Summary (Time Series) table (F3411, F3412 and, F3413, respectively), are purged.

Note. This option is only valid when Clear F3411/F3412/F3413 Tables processing option on the Performance tab is set to *1* and the Delete Branch/Plant processing option contains a valid branch/plant.

This processing option enables a preprocess purge of these tables. If this processing option is not enabled or is set to Blank, the system purges records for a given branch/plant and item as you plan the item. Depending on processing option combinations, certain scenarios can occur.

Example 1:

Clear F3411/F3412/F3413 Tables is set to *1*.

(a) Delete Branch/Plant is set to Blank.

All records from the three tables will be prepurged.

(b) Delete Branch/Plant contains a valid branch/plant.

Records for all the items that belong to the valid branch/plant will be prepurged from the three tables.

(c) Delete Branch/Plant contains an invalid branch/plant.

No records will be prepurged from the three tables.

Example 2:

Clear F3411/F3412/F3413 Tables set to Blank

Delete Branch/Plant is not active.

No records from the three tables will be prepurged.

3. Initialize MPS/MRP Print Code

Enter a value to initialize the F4102 table.

If you enter *1* in this processing option, the program initializes every record in the Item Branch table (F4102) by setting the Item Display Code (MRPD) to blank.

If you leave this field blank, processing time is decreased. The system will not clear the records in the Item Branch table (F4102).

Regardless of how you set this processing option, for each item in the data selection the MRPD field is updated as follow:

- *1* if messages were not created.
- *2* if messages were created.

The Print Master Production Schedule program (R3450) enables you to enter data selection based on the MRPD field.

Values are:

Blank: Do not initialize the Item Branch file.

	<i>I</i> : Initialize the Item Branch file.
4. Messages And Time Series For Phantom Items	Use this processing option to specify whether the program generates messages and time series for phantom items. Values are: Blank: Do not generate. <i>I</i>: Generate.
5. Ending Firm Order Status	Use this processing option to specify the work order status at which messages are no longer exploded to components. If you leave this field blank, all messages are exploded to components.
6. Extend Rate Based Adjustments	Use this processing option to specify whether adjustments for rate based items are exploded to components, thereby creating messages for the components. Values are: Blank: Do not extend. <i>I</i>: Extend
7. Closed Rate Status	Use this processing option to specify the status of closed rates. When you plan for a rate-based item, the system does not process rate orders that are at a closed-rate status or a higher status.
8. Set Key Definition For Table F3411	Use this processing option to support concurrent MRP/MPS runs. The value that you enter determines the range for the number of records in the F3411/F3412 tables for a given run. The number must be large enough to include the number of records that will be generated for the table. For example, if you enter a value of 8 for the first run and 10 for the second run, the range of records that the system reserves for two simultaneous MRP/MPS runs will include: First run: The system reserves records in the range of 1 to $[1 \times 10^8]$, or 1 through 1,000,000,000. Second run: The system reserves records in the range of $[1 \times 10^8 + 1]$ to $[2 \times 10^{10}]$, or 100,000,001 through 20,000,000,000. Notice that the values that you enter serve as the exponent in the previous equations. Values are: Default value: 10 Minimum value: 7 Maximum value: 14 Note. This process runs only when a subsequent MRP/MPS job is submitted while an existing job is currently running. The MRP/MPS Requirements Planning program (R3482) and Master Planning Schedule - Multiple Plant program (R3483) enforce these values. You determine the optimal value for the key definition. All values for this table should be the same for all versions. If version settings are not the same, the results are unpredictable.

9. Set Key Definition For Table F3412

Use this processing option to support concurrent MRP/MPS runs. The value that you enter determines the range for the number of records in the F3411/F3412 tables for a given run. The number must be large enough to include the number of records that will be generated for the table. For example, if you enter a value of 8 for the first run and 10 for the second run, the range of records that the system reserves for two simultaneous MRP/MPS runs will include:

First run:

The system reserves records in the range of 1 to $[1 \times 10^8]$, or 1 through 1,000,000,000.

Second run:

The system reserves records in the range of $[1 \times 10^8 + 1]$ to $[2 \times 10^{10}]$, or 100,000,001 through 20,000,000,000.

Notice that the values that you enter serve as the exponent in the previous equations. Values are:

Default value: 10

Minimum value: 7

Maximum value: 14

Note. This process runs only when a subsequent MRP/MPS job is submitted while an existing job is currently running. The MRP/MPS Requirements Planning program (R3482) and Master Planning Schedule - Multiple Plant program (R3483) enforce these values. You determine the optimal value for the key definition. All values for this table should be the same for all versions. If version settings are not the same, the results are unpredictable.

10. Set Maximum Number Of Branches

Use this processing option to specify the maximum number of branches that the system processes when you run the Master Planning Schedule - Multiple Plant program (R3483). Since this processing option controls the allocation of memory for arrays, you should use the minimum number of branches necessary.

Warning! The system supports up to ninety-nine locations. If you specify more locations than ninety-nine, the program might generate unpredictable results. It is strongly recommended that you make incremental adjustments to this value.

11. Suppress Time Series

Use this processing option to specify whether the system generates the time series. Values are:

Blank: Generate the time series.

1: Do not generate the time series.

Note. Performance improves when the time series is not generated.

Mfg Mode

These processing options specify integration with other systems.

1. Process Planning

Enter a value.

If you use process manufacturing, enter *1* to generate the plan based on the forecasts of the co-/by-products for the process. The program then creates messages for the process.

Values are:

Blank: Discrete

1: Process

2. Configurator Functionality

Use this processing option to specify whether the system processes configurator components from the Configurator Component Table (F3215) and adds them to the Sales Order Detail File table (F4211) and the Work Order Parts List table (F3111). If you enter a *1* in this processing option, the system processes the items on the Configurator Components table as demand items.

Blank: Do not process items from the Configurator Component Table.

1: Process items from the Configurator Components table.

3. Project Planning

Use this processing option to specify whether the system includes supply and demand from items that are associated with a project. Project-specific items have a stocking type of P. Values are:

Blank: Do not include items associated with projects.

1: Include items associated with projects.

Multi-Facility

These processing options define criteria for a multi-facility environment.

1. Date Branch

Enter the default branch/plant from which to retrieve the shop floor calendar.

If you leave this field blank, the calendar for each branch/plant is used and processing time increases.

2. Consolidation Method

Enter a value.

The simple consolidation method (*1*) adds the supply and demand for each branch, calculates a new time series, and places the result in the consolidated branch specified in the Consolidation Branch processing option.

The branch relationships method (*2*) uses the Branch Relationships table. This is the default.

Values are:

1: Simple consolidation

2: Branch relationships (default)

3. Consolidation Branch

Enter a branch/plant.

If the consolidation method is *1* (simple consolidation), enter the branch/plant to contain the consolidated results. If the consolidated branch/plant also contains its own time series data, that data is included in the totals.

4. Category Code

Enter a code.

If the consolidation method is *2* (branch relationships), enter the category code of the part that is supplied by one branch/plant to another. There are five user-defined category code tables.

Values are:

I: 41/P1

2: 41/P2

3: 41/P3

4: 41/P4

5: 41/P5

5. Manufacture At Origin

Enter *I* if there are manufactured and purchased items in the same category code, but you only want to obtain the purchased items from another branch/plant. Transfer order messages are created for purchased items, and work order messages are created for manufactured items.

Values are:

Blank: Create transfer orders for manufactured and purchased items.

I: Create transfer orders only for purchased items.

6. Transfer Order Document Type

Enter a document type.

When you receive messages related to transfer order creation, this document type will appear as the default. The default value is *OT*.

Parallel

These processing options specify the number of processors that the system uses during parallel processing. These processing options also specify whether the system runs preprocessing during parallel processing.

1. Number of Subsystem Jobs

Use this processing option to specify the number of subsystems in a server. The default is 0 (zero).

2. Pre Processing

Use this processing option to specify whether the system runs preprocessing during parallel processing. During preprocessing, the system checks supply and demand and plans only the items within supply and demand. Preprocessing improves performance when you run MRP and is valid only when the number of items actually planned is less than the total number of items in the data selection. Values are:

Blank: The system does not run preprocessing.

I: The system runs preprocessing.

Validating Multi-Facility Planning Output

This section provides an overview of multi-facility planning output and lists the forms to validate multi-facility planning output.

Understanding Multi-Facility Planning Output

Multi-facility planning output consists of information in the time series and transfer order messages. Use the time series information to either accept or override the planning that the system suggests. You should review the transfer order messages for individual item numbers to determine which action, if any, that you need to take.

Branch Relationships

Use the Branch Relationships Chart (P34031) to review supply and demand relationships in a graphical, hierarchical format. The Branch Relationships Chart displays:

- Branch.
- Level of the branch.
- Supply branches for the corresponding demand branch.

The Material Requirements Planning (MRP), Distribution Requirements Planning (DRP), and Master Production Scheduling (MPS) versions of the Branch Relationships Chart program use the same processing options. You can vary the settings in the processing options to accommodate the different requirements for a material requirements plan.

Reviewing the Time Series for the Multi-Facility Schedule

Use MPS Time Series (P3413) to review the times series for the multi-facility schedule. The multi-facility schedule is a record of time-phased supply and demand for selected items. This data is derived from the most recent regeneration or net change run. Processing options in the Master Planning Schedule - Multiple Plant program (R3483) enable you to set up daily, weekly, or monthly time periods (buckets).

In multi-facility planning, the system uses quantity types in the time series:

Quantity Type	Description
+PLO	Represents the recommended replenishment orders for an item. This quantity type appears on the demand branch's time series.
-ID	Interplant demand. This quantity type indicates the net demand that the system transfers to the supply branch/plant for all demand branch/plants.

Transfer Order Messages for the Multi-Facility Schedule

Use MRP/MPS Detail Message Revisions (P3411) to review the transfer order messages for the multi-facility schedule. Multi-facility scheduling creates messages that are appropriate to the demand and supply facilities. If you process the messages, the system automatically creates transfer orders. You can transfer items between facilities either at cost or at a markup.

See Also

Chapter 4, "Setting Up PeopleSoft Requirements Planning," Setting Up Multi-Facility Planning, page 32

Forms Used to Validate Multi-Facility Planning Output

Form Name	Form ID	Navigation	Usage
Work With Branch Relationships Hierarchy	W34031D	Multi-Facility Setup (G3443), Branch Relationships Chart	Review branch relationships
Work With Time Series	W3413A	Multi-Facility Planning Daily Operations (G3414), Time Series/ATP Inquiry	Review transfer order quantities
Work With Detail Messages	W3411D	Multi-Facility Planning Daily Operations (G3414), Detail Message Review	Review and process transfer order messages

CHAPTER 14

Supplier Release Scheduling

This chapter provides an overview of supplier release scheduling and discusses how to:

- Generate contract-based supplier release schedules.
- Enter ad hoc schedules.
- Capture supplier commitments.
- Release supplier schedules.

Understanding Supplier Release Scheduling

Supplier release scheduling provides the suppliers with consistent shipping information and advanced demand profiles to support the goal of just-in-time production and delivery. You can create supplier release schedules that meet the buyer's purchasing needs and enable suppliers to plan their production and shipping schedules. Using supplier schedules enables you to convert the purchase order messages that are generated by running the MRP/MPS Requirements Planning program (R3482) into a realistic supplier plan. The supplier schedule identifies both short- and long-term needs for purchased items at the facility.

Buyers can use supplier schedule master information that is based on blanket orders to set up and maintain supplier contracts with information about delivery criteria. If you want to use more than one supplier for an item, you need to define supplier split percentages. You can communicate supplier schedules to the suppliers using EDI or print.

Supplier release scheduling enables you to accomplish:

- Support item-specific relationships for scheduled shipments at the supplier's site.
- Set up blanket purchase orders and material shipping arrangements with each supplier.
- Generate a shipping schedule for all supplier-scheduled demand within the release horizon.
- Generate multiple supplier schedules for a single item.
- Adjust the shipping schedule for unplanned events, and create blanket order releases.
- Capture supplier commitments.
- Release commitments against existing blanket orders in the form of purchase orders at the release fence automatically.
- Print supplier schedule information, or send it to the supplier using EDI.
- Maintain a history of supplier schedules and commitments.

Supplier Release Scheduling Using the Self-Service Portal Workspaces

If you have the Supplier Relationship Management portal installed, you can collaborate with the supplier using the supplier self-service portal. The supplier can view the schedules that you have generated and enter commitments against them. The Buyer Workspace also enables the buyer to enter ad hoc schedules manually. You create ad hoc schedules when you did not set up supplier schedule information for a supplier.

Supplier release scheduling using the self-service workspaces enables you to:

- Enter and maintain ad hoc schedules.
- Capture supplier commitments.
- Respond to exception messages in the form of portal alerts.
- Release commitments against blanket and ad hoc schedules in the form of purchase orders.

Generating Contract-Based Supplier Release Schedules

This section provides an overview of supplier schedule generation and supplier schedule revisions, lists prerequisites, and discusses how to:

- Generate supplier schedules.
- Set processing options for Supplier Schedule Generation (R34400).
- Set processing options for Supplier Schedules Revisions (P34301).
- Revise supplier schedules.

Understanding Supplier Schedule Generation

You use the Supplier Schedule Generation program (R34400) to process purchase order messages of message type O, B, G and L on the material requirements plan. You can use this program to generate blanket order-based schedules, as well as ad hoc schedules.

When you generate the supplier schedule, the system uses the messages from the most recent MRP generation, blanket orders, and the information that is defined in the Supplier Schedule Master File table (F4321) to create a supplier schedule. The system determines demand from the MRP messages.

Important! Do not change the messages once the system has generated them from MRP.

You can set the appropriate processing option for the Supplier Schedule Generation program to clear MRP messages after schedule generation. The system clears only those messages that are inside the releasable time fence.

If you use multiple suppliers, the system creates multiple supplier schedules for a single item. It does so by splitting the MRP messages by the percentages that you defined in the Supplier Schedule Master File table.

When you generate a supplier schedule, the system creates a draft of the supplier schedule and prints a report that details any discrepancies that might make the supplier schedule ineffective. You can review the draft of the supplier schedule by using the Supplier Schedule Revisions program (P34301) and make any necessary revisions prior to committing to a final schedule. Blanket order-based schedules are stored in the Vendor Schedule Quantity File table (F3430).

Once you have generated the schedule and communicated it to the supplier, the supplier can make commitments for items that require commitments. You can use the processing options to indicate whether you require commitments from the suppliers in response to the planned quantities on the supplier schedule. If you use electronic data interchange (EDI) to send the schedule to the supplier, the supplier can communicate committed quantities back to you, using EDI standards. If you do not use EDI, the supplier can send commitments by other means—for example, fax—and you enter the committed quantity into the schedule. Commitments that are entered for a blanket order-based schedule are stored in the Vendor Schedule Commitment File table (F3435).

You can run the Supplier Schedule Generation program multiple times to accommodate changes. For blanket order-based schedules, a snapshot of the schedule is saved to the Vendor Schedule History File table (F3440) every time that you run the program. You can view the values from the previous schedule in the previous quantity fields in the Supplier Schedule Revisions program.

If you rerun the schedule generation after the committed quantity was entered, the current Committed Quantity value does not change. If the Committed Quantity field was populated from the Planned Quantity field for an item that does not require a supplier commitment and the planned quantity changes due to a supplier schedule regeneration, the committed quantity changes accordingly.

Self-Service Portal Workspaces

If you are working with the self-service portal workspaces, you can also use the Supplier Schedule Generation program to generate ad hoc schedules. You use processing options to determine whether the program generates ad hoc schedules and until what date purchase order planning messages can be converted into ad hoc schedules.

The self-service portal enables you to review both blanket and ad hoc schedules once you have generated them. You use the Supplier Schedule Revisions program for review and revise blanket schedules. You use the Ad hoc Schedule Revisions program (P34302) to review and revise ad hoc schedules.

Once the supplier has been notified using email that a schedule exists, he or she can use the supplier self-service portal to enter committed quantities into the schedule. Commitments entered for ad hoc schedules are stored in the Ad Hoc Vendor Schedule File table (F3450).

See Also

PeopleSoft EnterpriseOne Procurement 8.11 PeopleBook, “Processing Special Orders,” Working with Blanket Orders

Understanding Supplier Schedule Revision

After you have generated a supplier schedule that is based on the supplier contract information which you have set up, you can use the Supplier Schedule Revisions program to review the schedule and make revisions. After you review the schedule and make any necessary revisions, you can commit to a final schedule.

Supplier Schedule Revisions enables you to:

- Review planned, committed, released, and historical quantity information.
- Display the current supplier schedule.
- Review cumulative quantity information.
- Update planned and committed quantities in the schedule before you release them.
- Finalize the supplier schedule.

The system recalculates the quantities in the Cumulative Frozen, Cumulative Fabrication, and Cumulative Raw Material fields when a change is made. If the schedule was generated multiple times, the values from the previous generation are displayed in Previous columns. For each schedule record, the system displays what kind of fence was defined, if any.

Any changes that you make to the schedule do not affect the most recent Master Production Scheduling (MPS), Material Requirements Planning (MRP), or Distribution Requirements Planning (DRP) generation. After you release the supplier schedule and create purchase orders for the blanket order releases, the next MPS, MRP, or DRP generation treats the purchase orders as available supply items.

Self-Service Portal Workspaces

You can access the Supplier Schedule Revisions program using the self-service portal workspaces as well, to review and revise the planned quantity. The supplier can also access the program using the supplier self-service portal to enter the quantity that he or she wants to commit in response to the planned quantity. The system compares the committed quantity that is entered by the supplier with the planned quantity and then issues an alert if a shortage exists. Alerts are displayed on the self-service portal workspaces.

Prerequisites

Before you complete the tasks in this section verify that this information has been set up:

- Supplier schedule master information.
- An active blanket order for the item, if necessary.
- Run the MPS/MRP/DRP generation so that the system can create order messages for supplier scheduled items.
- Set the processing option, if you want the Supplier Schedule Generation program (R34400) to generate ad hoc schedules.
- Set the processing options to define the blanket order, order type, line type, and status in the version of supply/demand inclusion rules that is used during supplier schedule generation.

Form Used to Revise Supplier Schedules

Form Name	Form ID	Navigation	Usage
Vendor Schedule Revisions/Edit Supplier Schedule	W34301B	MRP Daily Operations (G3413), Enter/Change Schedule	Manually enter changes to the supplier schedule.

Generating Supplier Schedules

From the Single Site Periodic Planning Operations menu (G3422), select Generate Supplier Schedule.

Setting Processing Options for Supplier Schedule Generation (R34400)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

These processing options control the generation start date, document type, and which version of the supply/demand inclusion rules the system uses when you generate a supplier schedule.

- | | |
|--|---|
| 1. Generation Start Date | Use this processing option to specify the date that the system uses to start the Supplier Schedule Generation process. If you do not specify a date, the system uses the current date. |
| 2. Document Type | Use this processing option to specify the document type (UDC 00/DT) that the system uses to locate an item blanket order when you run the Supplier Schedule Generation program. If you leave this processing option blank, the system uses document type <i>OB</i> (blanket order). |
| 3. Supply/Demand Inclusion Rule | Use this processing option to specify which version of the supply/demand inclusion rules the system reads. This rule defines the criteria that the program uses to select blanket orders to run the supplier scheduling process. |

Commitment

These processing options control whether and for what types of items suppliers are required to enter commitments.

- | | |
|---|--|
| 1. ABC code type | <p>Use this processing option to specify which ABC code type the system uses when checking whether commitments are required for an item. Values are:</p> <p>Blank: Do not use ABC codes because no commitments are required.</p> <p><i>I</i>: Use Sales - Inventory ABC codes.</p> <p>2: Use Margin - Inventory ABC codes.</p> <p>3: Use Investment - Inventory ABC codes.</p> |
| 2. Commitment required for Class A Items | <p>Use this processing option to specify whether commitments are required for class A items. Values are:</p> <p>Blank: Commitments are not required.</p> <p><i>I</i>: Commitments are required.</p> |
| 3. Commitment required for Class B Items | <p>Use this processing option to specify whether commitments are required for class B items. Values are:</p> <p>Blank: Commitments are not required.</p> <p><i>I</i>: Commitments are required.</p> |
| 4. Commitment required for Class C Items | <p>Use this processing option to specify whether commitments are required for class C items. Values are:</p> <p>Blank: Commitments are not required.</p> <p><i>I</i>: Commitments are required.</p> |
| 5. Commitment required for Class D Items | <p>Use this processing option to specify whether commitments are required for class D items. Values are:</p> <p>Blank: Commitments are not required.</p> <p><i>I</i>: Commitments are required.</p> |

Ad Hoc Schedules

These processing options control whether the program creates ad hoc schedules and specifies an end date for generating ad hoc schedules.

- | | |
|------------------------------------|---|
| 1. Create Ad Hoc Schedule | Use this processing option to specify whether the system generates ad hoc release schedules. Values are:

<i>0</i> : The system does not generate ad hoc release schedules.
<i>1</i> : The system generates ad hoc release schedules. |
| 2. End Ad Hoc Schedule Date | Use this processing option to specify the end date for generating ad hoc schedules. If you do not specify a date, the system generates ad hoc schedules for all planning messages that are available for the item after the generation start date. You generate ad hoc schedules only if no valid vendor schedule information was set up. |

Process

These processing options control how the system clears messages and updates the schedule. In addition, you can specify the manner in which the system uses messages.

- | | |
|--|---|
| 1. Supplier Schedule Status | Use this processing option to specify the schedule status after the system runs the Supplier Schedule Generation program. If you leave this option blank, the system does not update the schedule. |
| 2. Clear Messages | Use this processing option to specify whether the system clears MPS/MRP/DRP messages after it runs the Supplier Schedule Generation program (R34410).

Values are:

Blank: The system does not clear messages after the Supplier Schedule Generation program runs.
<i>1</i> : The system clears messages after the Supplier Schedule Generation program runs. |
| 3. Regeneration Flag | Use this processing option to specify whether the system re-runs the Supplier Schedule Generation program when the system uses previously cleared MPS/MRP/DRP messages. The system displays messages only after the MRP Regeneration program has run. Values are:

Blank: The system uses cleared messages.
<i>1</i> : The system does not use cleared messages. |
| 4. Frozen Days Flag | Use this processing option to specify whether the system ignores the frozen time fence for supplier release and enables normal operations within the frozen time fence. If the system ignores the frozen time fence, it places quantities within the frozen time fence. Values are:

Blank: The system does not ignore the frozen time fence.
<i>0</i> : The system ignores the frozen time fence. |
| 5. Transfer Order Messages Flag | Use this processing option to specify whether the system ignores the transfer order messages while generating the schedule. If the system ignores the |

transfer order messages, it schedules quantities only for the purchase order messages. Values are:

Blank: The system does not ignore the transfer order messages.

0: The system ignores the transfer order messages.

Setting Processing Options for Supplier Schedules Revisions (P34301)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Versions

Enter the version for each program. If left blank, version ZJDE0001 will be used for 1 through 7.

- | | |
|--|---|
| 1. Open Order Inquiry (P4310) | Identifies a group of items that can be processed together such as reports, Business Unit, or subledgers. |
| 2. Supply/Demand Inquiry (P4021) | Enter a sequence number that identifies versions of a menu selection. For example, where multiple versions of a report menu selection are set up, this sequence number identifies each of those versions. |
| 3. Purchase Order Entry (P4310) | Enter a value.

You are allowed to set up multiple versions of certain menu selections (for example, reports). This sequence number identifies each of those versions. |
| 4. Vendor/Blanket Information (P4321) | Identifies a group of items that can be processed together such as reports, Business Unit, or subledgers. |
| 5. Pegging Information (P3412) | Identifies a group of items that can be processed together such as reports, Business Unit, or subledgers. |
| 6. Supplier Schedule Release Generation (R34410) | Enter the version to use.

This is the DREAM Writer version for fiscal and anniversary rollover. If a version is entered, the rollover will occur automatically during the payroll cycle. If the version is left blank, fiscal and anniversary DBAs will have to be rolled over manually using the menu selection. |
| 7. Item Branch (P41026B) | Identifies a specific set of data selection and sequencing settings for the application. Versions may be named using any combination of alpha and numeric characters. |
| 8. Enter the version of Supply/Demand Inclusion Rules to use for active Blanket Order selection | Enter a UDC (40/RV) that identifies an inclusion rule that you want the system to use for this branch/plant. The Manufacturing and Warehouse Management systems use inclusion rules as follows: <ul style="list-style-type: none"> • For Manufacturing: Enables multiple versions of resource rules for running MPS, MRP, or DRP. • For Warehouse Management: Enables multiple versions of inclusion rules for running putaway and picking. |

The system processes only those order lines that match the inclusion rule for a specified branch/plant.

9. Purchase Order Inquiry Self Service (P4310SS)

Use this processing option to identify the version of the Purchase Order Self-Service Inquiry program (P4310SS) that the system uses to display Purchase Order Information. If you leave this processing option blank, the system uses version ZJDE0001.

Defaults

These processing options specify the defaults used by the program.

Document Order Type

Enter a UDC (00/DT) that identifies the type of document. This code also indicates the origin of the transaction.

1. Enter the Document Type to filter on the form.

P: Accounts Payable documents

R: Accounts Receivable documents

T: Payroll documents

I: Inventory documents

O: Purchase Order Processing documents

J: General Accounting/Joint Interest Billing documents

S: Sales Order Processing documents

2. Supplier Self Service Functionality

Use this processing option to activate the supplier self-service feature in Java or HTML environments. Values are:

Blank: The system does not activate supplier self-service.

I: Activate Supplier Self Service functionality for use in JAVA/HTML.

Item Cross-Reference Type Code

3. Enter Cross Reference Type for Supplier Item Number (used only in web mode). Use this processing option to specify the code with which the system searches cross-reference information using a supplier item number. Cross-references associate the internal item numbers with the supplier's item numbers. You can set up items in Item Master Information (F4101) and create the cross-reference information in the Item Cross Reference Revisions program (P4104). You must enter a value that has been set up in UDC 41/DT. If you leave this processing option blank, the system does not display or process any cross-reference information.

4. Allow changes to the schedule

Use this processing option to restrict users from making changes to the schedule. Values are:

Blank: Allow changes to the schedule.

I: Do not allow changes to the schedule.

Note. The row for planned schedules is disabled when the value is *I*. This processing option is operational only when web mode is turned on (Tab Defaults, Option 2).

Status Update

These processing options specify the statuses.

Vendor Schedule Status

Enter Status for Vendor Schedule Update. The current status of the supplier schedule. This is updated as the schedule moves through the system.

To Status

Enter status beyond which changes cannot be made to the Vendor Schedule. If left blank, the schedule will always be open to change. The current status of the supplier schedule. This is updated as the schedule moves through the system.

Revising Supplier Schedules

Access the Vendor Schedule Revisions form.

Enter/Change Schedule - Vendor Schedule Revisions

OK Cancel Form Tools

Edit Supplier Schedule

Order Info Receipt Info Cumulative Info

Item Number SR1

Order Number 294 OB Branch/Plant M30

Line 1.000 Status 40 Printed

Units Of Measure EA Each

Records 1 - 13 Customize Grid

Fence Flag	Date	Planned QTY	Committed QTY	Released QTY	Cumulative Difference	Previous Planned QTY	Previous Committed QTY	Previous Released QTY
P								
R	05/30/05							
R	06/06/05	200	200					
R	06/13/05	450	450					
R	06/20/05							
	06/27/05							

Vendor Schedule Revisions form

As of Date

Enter the promised shipment date for either a sales order or purchase order. The Supply and Demand programs use this date to calculate Available to Promise information. This value can be automatically calculated during sales order entry. This date represents the day that the item can be shipped from the warehouse.

Planned QTY (planned quantity)

Enter the quantity of units planned for each period in the time series or plan.

Committed QTY (committed quantity)

Indicates the quantity that the vendor has committed to delivering in response to the planned quantity on the vendor schedule.

Entering Ad Hoc Schedules

This section provides an overview of ad hoc schedules and discusses how to:

- Set processing options for Ad Hoc Schedule Revisions (P34302).
- Enter ad hoc schedules.

Understanding Ad Hoc Schedules

If you do not have supplier information that is based on a blanket order, you can still perform supplier release scheduling by creating ad hoc schedules. You can create an ad hoc schedule when schedule quantities have changed after regenerating the supplier schedule to fulfill additional requirements.

Ad Hoc schedules are created for the supplier who is specified in the order message in the MPS/MRP/DRP Message File table (F3411). During the MRP generation, the Supplier field on the message is populated from the Item Branch File table (F4102) if a supplier was defined for the item. If you did not define a supplier for the item, you can add a supplier to the message manually. If the message does not specify a supplier, the system uses the split percentage that was set up for the item in the Supplier Schedule Master File table. If no split was defined for the item, you cannot generate an ad hoc schedule.

PeopleSoft EnterpriseOne provides two methods for creating ad hoc schedules:

- You can run the Supplier Schedule Generation program and set a processing option to create ad hoc schedules for items for which no blanket orders exist.
- You can use the Ad Hoc Schedule Revisions program to enter ad hoc schedules manually - for example, to meet unplanned demand.

You create ad hoc schedules based on item branch information, as well as supplier information that you can set up independently from a blanket order. For example, you can set up shipment patterns and dates, as well as split percentages for the suppliers.

When you use the Supplier Schedule Generation program to create a supplier release schedule and no blanket order exists for the item, the system reads the MRP messages from the MPS/MRP/DRP Message File table and searches for available supplier information-for example, a shipment pattern that is defined for a supplier and an item. If the system locates a shipment pattern, it adjusts the MRP request date to the first available shippable date, based on the shipment pattern. If you did not define shipment dates for the item, the system uses the MRP message request date for scheduling.

The Ad Hoc Schedule Revisions program, accessible using the self-service portal workspaces, can be used by both the buyer and the supplier. This program enables you to enter schedules even when no MRP messages or no forecast for the item exist. The buyer can use this application for:

- Entering a new ad hoc schedule-for example, in response to an alert.
- Editing the planned quantity in an existing ad hoc schedule.
- Editing the committed quantity that is entered by the supplier on an ad hoc schedule.

Every time that a schedule changes, the system automatically notifies the supplier using email.

The buyer can use the application to respond to a new ad hoc schedule by entering a commitment quantity.

Schedules are displayed in chronological order, starting with the earliest date and displaying planned, committed, and released quantities, as well as cumulative values and the difference between planned and committed quantities.

Forms Used to Enter Ad Hoc Schedules

Form Name	Form ID	Navigation	Usage
Add Ad Hoc Schedules	W34302E	EnterpriseOne Collaborative Portal, Ad Hoc Schedule Advanced Search. On Search For Ad Hoc Schedules, complete filter fields and click Find. On View Ad Hoc Schedules, click Add Record.	The buyer adds an Ad Hoc schedule. The supplier enters committed quantities.
Edit Ad Hoc Schedules	W34302C	On View Ad Hoc Schedules, click Edit.	Make changes to the Ad Hoc schedule

Setting Processing Options for Ad Hoc Schedule Revisions (P34302)

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

These processing options control defaults settings, such as the item cross-reference type code.

Item Cross-Reference Type Code

1. Enter Cross Reference Type for Supplier Item Number

Use this processing option to specify the code with which the system searches cross-reference information using a supplier item number. Cross-references associate the internal item numbers with the supplier's item numbers. You can set up items in Item Master Information and create the cross-reference information in the Item Cross Reference Revisions program. You must enter a value that has been set up in UDC 41/DT. If you leave this processing option blank, the system does not display or process any cross-reference information.

2. Allow changes to the schedule

Use this processing option to restrict users from making changes to the schedule. Values are:

Blank: Allow changes to the schedule.

I: Do not allow changes to the schedule.

Note. The row for planned schedules is disabled when the value is *I*. This processing option is operational only when web mode is turned on (Tab Defaults, Option 2).

Entering Ad Hoc Schedules

Access the Add Ad Hoc Schedules form.

Add Ad Hoc Schedules

Add Ad Hoc Schedules

Records 1 - 2							Customize Grid
Item Number	Branch Plant	Supplier Number	Start Date	Unit Of Measure	Planned QTY	Committed QTY	
SR1	M30	4242	060105				

OK Cancel

Add Ad Hoc Schedules form

Supplier Number

Enter a number that identifies an entry in Address Book, such as employee, applicant, participant, customer, supplier, tenant, or location.

Start Date

Enter the start date for the order. You can enter this date manually, or have the system calculate it using a backscheduling routine. The routine starts with the required date and offsets the total leadtime to calculate the appropriate start date.

Planned QTY (planned quantity)

Enter the quantity of units planned for each period in the time series or plan.

Committed QTY (committed quantity)

Indicates the quantity that the vendor has committed to delivering in response to the planned quantity on the vendor schedule.

Capturing Supplier Commitments

This section provides an overview of supplier collaboration and discusses how to:

- Enter supplier commitments for blanket schedules through the PeopleSoft EnterpriseOne Collaborative Portal.
- Enter supplier commitments for ad hoc schedules.
- Capture supplier commitments using EDI.

Understanding Supplier Collaboration

Collaboration between buyers, suppliers, and the PeopleSoft EnterpriseOne planning systems is essential for supporting e-fulfillment processes. The system provides self-service programs that enable both buyers and suppliers to review and modify supplier schedules. By accessing these programs using the supplier self-service portal and the buyer workspace, buyer and supplier can collaborate in realtime. Once you have created a supplier schedule, the supplier can view it using the portal and respond to it by entering commitments.

The collaborative process includes a set of alerts that makes managing supplier schedules by exception possible. Under certain conditions, for example, if a mismatch exists between planned and committed quantity, the system issues alerts to both buyer and supplier to enable them to respond to the issue. The system captures a history of schedules and commitments that provides a basis for exception and comparative alerts.

The portal also enables buyers not only to review and revise blanket and ad hoc schedules that are created by running the Supplier Schedule Generation program, but also to manually enter ad hoc schedules when necessary. You can use ad hoc schedules to meet unexpected demand or to cope with shortages.

To create ad hoc schedules, this information is required:

- Supplier
- Freeze fence
- Shipment dates

Commitments

Once a supplier schedule is generated, based on MRP requirements and supplier information that is available in the system, and communicated to the supplier, the supplier can facilitate planning and the smooth flow of orders and goods by creating commitments for the planned quantities on the supplier schedule. Commitments do not represent an order, but an intent to meet the order.

Important! Commitments that are used for supplier release scheduling are different from the commitments that are created and tracked in Procurement.

Depending on the needs of the business, you can specify whether you want suppliers to state their commitments or not. You use the processing options for the Supplier Schedule Generation program to determine commitments. You can specify that suppliers are not required to provide commitments in response to the planned quantity communicated using the supplier schedule. In that case, the planned quantity becomes the default value for the committed quantity when you run the schedule generation. If you want the suppliers to respond to the supplier schedule with commitments, you can indicate the type or types of items for which you require commitments, based on the ABC ranking assigned to an item in the Item Branch program (P41026). For example, after specifying which type of inventory value you want to use, you can indicate whether to make commitments for A, B, or C class items. ABC codes are used to categorize items by their sales, margin, or investment inventory value.

When a schedule is generated for an item class that requires a commitment, the supplier is notified by email and can enter committed quantities in the supplier self-service portal by using the Supplier Schedules Revisions or the Ad Hoc Schedule Revisions program.

Note. If you communicate with the supplier using EDI, the supplier can send committed quantities using EDI.

If you have specified that commitments are necessary, but the supplier does not specify a committed quantity matching the planned quantity, the system issues an appropriate alert that-in most cases-is visible to both buyer and supplier.

Once the supplier has sent the committed quantity information, you can review the information in the self-service programs. The Commitments for blanket order-based schedules are stored in the Vendor Schedule Commitment File table; the commitments for ad hoc schedules are stored in the Ad Hoc Vendor Schedule File table. Committed quantities that are within the release fence (Releasable Days) are converted into purchase orders when you run the Supplier Schedule Release Generation program. Committed quantities that are scheduled outside the release fence remain committed.

Portal Alerts

To facilitate the collaboration between buyer and supplier, the supplier release scheduling system provides alerts that enable both the buyer and supplier to manage the schedule on an exception basis. Alerts can be used if the supplier and buyer agree to use supplier commitments as part of the planning process. The alerts that are displayed to the user describe conditions that deviate from the original plan, and that might require action on the part of the supplier or the buyer. You can specify how long the alerts are to be displayed and how much time the supplier has to respond to the alert. The system also provides a count of the number of the alerts that are displayed on the portal.

When either the buyer or supplier accesses the system by using the self-service portal workspaces, the number of alerts is displayed on the portal form. Click on any of the Alerts links to investigate and respond to the alerts, and open the View Supplier Schedule or Ad Hoc Schedule form. If you use the Alerts link to access these forms, only the schedules to which the Alert applies are displayed.

The system currently provides six alerts. Four of these alerts apply to blanket order-based schedules; the other two apply to ad hoc schedules. This table describes the conditions that generate alerts, as well as to whom the alert is addressed:

Alert	Condition	Reported To	Schedule Type
Commit not equal to planned	The committed quantity is not equal to the planned quantity.	Buyer	Blanket
Commit not equal to planned	The committed quantity is not equal to the planned quantity.	Buyer	Ad Hoc
No Commitment	The supplier has not committed to the planned quantity within a specified number of days from the release fence.	Buyer and supplier	Blanket
No Commitment	The supplier has not committed to the planned quantity within a specified number of days from the release fence.	Buyer and supplier	Ad Hoc
Commit not equal to previous commit	The supplier decreases the commitment from what was previously committed and does not meet the schedule quantity.	Buyer	Blanket only
Planned not equal to previous planned	Indicates the number of schedule changes from the previous planned schedule.	Buyer and supplier	Blanket only

Shortages

Once the supplier release schedule is generated and commitments have been entered, the buyer or planner can review the schedule to identify shortages, based on the alerts that the system has issued.

To cover any shortages, the buyer can negotiate with an alternative supplier, if one is available, on quantity, price, and delivery. This negotiation occurs outside of the supplier release scheduling process. As a result, the buyer can enter an ad hoc purchase order, if possible, within the MRP horizon. In this case, you can run MRP again to recognize the quantity on the ad hoc purchase order. When you regenerate the supplier release schedule, the planned quantity reflects the purchase order quantity.

Note. Running MRP again after creating an ad hoc purchase order to cover a shortage is not mandatory, but it is recommended. If you do not run MRP again, the ad hoc purchase order quantity is not accounted for in the supplier schedule generation process and has to be subtracted manually.

Another method for covering shortages is creating a blanket order for the alternative supplier, changing the supplier split percentage to a fixed percentage for the new supplier, and then generating the supplier release schedule again.

See Also

PeopleSoft EnterpriseOne Procurement 8.11 PeopleBook, “Entering Orders”

Forms Used to Enter Supplier Commitments

Form Name	Form ID	Navigation	Usage
Edit Supplier Schedule	W34301B	EnterpriseOne Collaborative Portal, Blanket Schedule Advanced Search. On Search for Blanket Schedules, click Find. On View Blanket Schedules, click Edit. Click an Alert link on the portal.	The buyer enters changes to the supplier schedule. The supplier uses this form to enter commitments. When you click an alert link, the form only displays the schedule for which the alert was issued.
Edit Ad Hoc Schedules	W34302C	On View Ad Hoc Schedules, click Edit. Click an alert link on the portal.	Make changes to the Ad Hoc schedule. When you click an alert link, the form only displays the schedule for which the alert was issued.

Entering Supplier Commitments for Blanket Schedules through the PeopleSoft EnterpriseOne Collaborative Portal

Access the Edit Supplier Schedule form.

Entering Supplier Commitments for Ad Hoc Schedules

Access the Edit Ad Hoc Schedules form.

Edit Ad Hoc Schedules

Edit Ad Hoc Schedules

Item Number	SR2	Branch Plant	M30
Item Number Description	Supplier Release Item 2		
Supplier	4343		
Unit Of Measure	Each		

Records 1 - 2

Customize Grid

Select	Fence	Start Date	Planned QTY	Committed QTY	Released QTY	Cumulative Difference
☐	F	06/06/05	200	200		
☐	F	06/13/05	450	450		

F - Frozen Date

Delete

OK

Cancel

Edit Ad Hoc Schedules form

Capturing Supplier Commitments Using EDI

Communication of planned and committed quantities between buyers and suppliers can occur using EDI.

The EDI 830 standard establishes both the contents and the standardized format for the transaction set that is required for a planning schedule with release capability. Using EDI 830 Planning Schedule with Release Capability for supplier release scheduling in PeopleSoft EnterpriseOne software, you can perform these transactions:

- Send forecasts or supplier release schedules (both blanket order and ad hoc schedules) with planned quantities outbound.
- Receive forecasts or supplier release schedules inbound.

The supplier can perform these transactions:

- Send back a response with the committed quantities.
- Send an inbound release schedule with planned quantities (both for blanket order and ad hoc schedules).

These processes can be used to support business scenarios:

- The buyer sends a planning forecast that is for information only and conveys anticipated demand.
- The buyer sends a net rolling forecast to the supplier, supported by a blanket order that commits resources to a stated time period.

The 862 Shipping Schedule transaction is sent as a separate release mechanism to support just-in-time releases.

- The buyer sends a material release schedule in the form of a net rolling forecast to the supplier, supported by a blanket order that commits resources to a stated time period.

Firm requirements are identified as such and are released as soon as their dates fall within the prenegotiated window. Requirements falling outside this window are considered planned with resources committed, but not released.

- The buyer sends a planning schedule containing gross requirements, inventory levels, and minimum/maximum inventory targets.

The supplier nets forecast data to determine shipping requirements, based on the buyer's inventory levels and minimum/maximum targets.

According to the material release schedule scenario, which is the most typical for supplier release scheduling, the buyer generates a material release schedule and sends it to the supplier. This schedule is regenerated on a regular basis, factoring in all the changes from the previous run. The supplier uses the material release schedule to plan for future orders from the buyer. If required, the supplier generates a response to the material release schedule. The buyer evaluates any responses received and takes appropriate action—for example, adjusting the schedule.

Using EDI to communicate planning forecasts and release schedules between buyer and supplier consists of these processes:

- The planning schedule records are extracted from the Vendor Schedule Quantity File table into the EDI Planning Schedule Header - Outbound table (F47066) and the EDI Planning Schedule Detail - Outbound table (F47067) by running the Outbound Extraction - Supplier program (R470621).

Whenever order number and type, company, suffix, line number item or branch change, the system creates a new document number within the same batch.

- For ad hoc schedules, the records are extracted from the Ad hoc Vendor Schedule File table into the EDI 830 outbound tables by running the Outbound Extraction - Ad Hoc Supplier Release Schedules program (R470622).

For each supplier within the same batch, the system creates a new document number. You can run the UBE in proof and in final modes.

- The records in the EDI 830 outbound tables are translated into flat file format by running the EDI Planning Schedule Extraction Conversion program (R47062C).
- When the supplier sends an EDI 830 Response (Planning Schedule with Release Capability) indicating the committed quantity, it is received back into the system by running the Inbound Flat File Conversion program (R47002C) that populates the EDI Planning Schedule Header - Inbound table (F47061) and the EDI Planning Schedule Detail - Inbound table (F47062).
- Running the Inbound EDI Planning Schedule Edit/Create program (R47061) reads the records from the EDI 830 inbound tables and updates the committed quantities in the tables, if the document represents a response to the schedule from the supplier.
 - Vendor Schedule Commitment File.
 - Ad Hoc Vendor Schedule File.
- Running the Inbound EDI Planning Schedule Edit/Create program reads the records from the EDI 830 inbound tables and updates the planned quantities in the tables, if the inbound transaction is not a response to a planned quantity:
 - Ad Hoc Vendor Schedule File.
 - Vendor Schedule Quantity File.

You can view the results of this process in the Supplier Schedule Revisions program for blanket order-based schedules and in the Ad Hoc Schedule Revisions program for ad hoc schedules.

Releasing Supplier Schedules

This section provides an overview of supplier schedule release generation, lists the prerequisite, and discusses how to:

- Run Supplier Schedule Release Generation.
- Set processing options for Supplier Schedule Release Generation.

Understanding Supplier Schedule Release Generation

After finalizing a schedule by using Supplier Schedule Revisions or Ad Hoc Schedule Revisions, you use the Supplier Schedule Release Generation program to release the current supplier schedule. The release process generates:

- Purchase orders for all committed quantities within the release fence.
- A shipping schedule that is based on when you need the items, the shipping lead time, and other defined variables.

After the schedule is processed, the system updates the planned, committed, and released quantities on the supplier schedule that are inside the time fence.

When you run the Supplier Schedule Release Generation program, the program releases both blanket order-based schedules and ad hoc schedules, if any exist. It creates purchase orders for quantities matching the committed quantities. Purchase orders are only created for committed quantities with dates that are inside the release fence. Committed quantities outside the release fence remain committed. For schedules that are based on blanket orders, the system uses the value from the Releasable Days field in the Supplier Schedule Master Revisions program (P4321). Once purchase orders are created, the Released Quantity field on the vendor schedule is updated with the purchase order quantity.

For blanket order-based schedules, the program creates purchase orders against the blanket order and uses the supplier schedule master information to create a release schedule. For ad hoc schedules, the Purchase orders are created, using the version of the Purchase Orders program that you define in the processing options.

In the process of generating release schedules, the program also consolidates the purchase orders. You can use a processing option to determine what criteria the system uses for consolidation. By default, the program consolidates purchase orders by branch, supplier, and item. However, you can also consolidate by branch and supplier only; or by branch, supplier, and date. In this process, purchase orders that are created against blanket orders and ad hoc schedules are merged.

Ad Hoc Schedules

When you run the Supplier Schedule Release Generation program for ad hoc schedules, you can use the processing options to specify release fence days. To create purchase orders for ad hoc schedules, the system searches for pricing blanket orders. If no pricing blanket orders are available, the system creates independent purchase orders.

Prerequisite

Generate a current supplier schedule.

Running Supplier Schedule Release Generation

From the Single Site Periodic Planning Operations menu, select Release Supplier Schedule.

Setting Processing Options for Supplier Schedule Release Generation

Processing options enable you to specify the default processing for programs and reports.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

These processing options control the version of the Purchase Orders program to use for creating purpose orders, as well as the consolidation method for purchase orders and the release fence for ad hoc schedules.

- | | |
|---|---|
| 1. Purchase Order Entry Version (P4310) | Use this processing option to specify which version of the Purchase Orders program that the system calls to generate purchase orders when running the Supplier Schedule Release Generation program. If you leave this processing option blank, the system uses version ZJDE0001. |
| 2. Purchase Order Consolidation | Use this processing option to specify how to consolidate purchase orders when you run the Supplier Schedule Release Generation program. Values are:
Blank: Consolidate purchase orders by branch/plant supplier and item.
1: Consolidate purchase orders by branch/plant and supplier.
2: Consolidate purchase orders by branch/plant, supplier, and date. |
| 3. Release Fence Days for Ad hoc Schedules | Use this processing option to specify the release fence days for ad hoc schedules. Release fence days are the number of work days from the current date within which a release can occur. |

Process

These options enable you to specify the processing that the system uses to generate the supplier schedule release.

- | | |
|------------------------------------|--|
| 1. Supplier Schedule Status | Use this processing option to specify the supplier schedule status that the system assigns after you run the Supplier Schedule Release program.
If you leave this option blank, the system does not update the supplier schedule status. |
| 2. Clear Messages | Supplier scheduling uses the messages from the most recent MRP generation to determine demand. Use this processing option to specify whether to clear MPS/MRP/DRP messages after the system runs the Supplier Schedule Release program. The system clears only the messages that are inside the release fence. Values are:
Blank: The system does not clear messages.
1: The system clears messages. |
| 3. Blanket Order Release | Use this processing option to specify whether the system automatically releases blanket orders during the Supplier Schedule Release program.
Values are:
Blank: The system does not automatically release blanket orders. |

4. Price Control

I: The system automatically releases blanket orders.

Use this processing option to specify whether the system retrieves the price from a blanket order or the Procurement Price Management system. Values are:

Blank: The system retrieves the price from a blanket order.

I: The system retrieves the price from Procurement Price Management.

APPENDIX A

PeopleSoft EnterpriseOne Requirements Planning Reports

This appendix provides an overview of PeopleSoft EnterpriseOne Requirements Planning reports and enables you to:

- View summary tables of all reports.
- View details for selected reports.

PeopleSoft EnterpriseOne Requirements Planning Reports

This product does not include many stand-alone reports.

PeopleSoft EnterpriseOne Requirements Planning Reports: A to Z

This table lists the PeopleSoft EnterpriseOne Requirements Planning reports, sorted alphanumerically by report ID.

Report ID and Report Name	Description	Navigation
R34450 Supplier Schedule Print	You can use Supplier Schedule Print to print a report of the supplier schedule.	Single Site Periodic Planning Operations (G3422), Print Supplier Release
R34460 Supplier Schedule History	You can use the Purge Supplier Schedule History program to delete history records that have become redundant.	Single Site Periodic Planning Operations (G3422), Purge Supplier Schedule History

PeopleSoft EnterpriseOne Selected Requirements Planning Reports

Some reports include a more detailed description, as well as information about processing options. These reports are listed alphanumerically by report ID.

R34460 - Supplier Schedule History

PeopleSoft EnterpriseOne provides a batch program that you can use to purge the supplier schedule history. You can use the Purge Supplier Schedule History program to delete history records that have become redundant. You can select to delete all of the history records in the Vendor Schedule History File table (F3440) or just a subset of these records. It is recommended that you run this batch program periodically.

R34450 - Supplier Schedule Print

You can use Supplier Schedule Print to print a report of the supplier schedule. Run the Supplier Schedule Release Generation (R34410) batch process. The system uses the information that you have entered on the other forms to create the report. This program generates a consolidated report of both blanket and ad-hoc schedules, and the purchase orders that the system generated. It displays planned committed and released quantities, as well as the cumulative difference between planned and committed quantities.

Processing Options for Supplier Schedule Print

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify PeopleSoft EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Process

Blanket Order Type

A UDC (00/DT) that identifies the type of document. This code also indicates the origin of the transaction.

1. Enter the document type to use when retrieving an item's blanket order. If left blank, *OB* will be used.

P: Accounts Payable documents

R: Accounts Receivable documents

T: Payroll documents

I: Inventory documents

O: Purchase Order Processing documents

J: General Accounting/Joint Interest Billing documents

S: Sales Order Processing documents

Supplier Schedule Status

The current status of the supplier schedule. This is updated as the schedule moves through the system.

2. Enter the status to use for updates to the supplier schedule. If left blank, no change will be made to the schedule's current status.

Versions

Supply/Demand Inclusion Rules Version

A UDC (40/RV) that identifies an inclusion rule that you want the system to use for this branch/plant. Manufacturing and Warehouse Management use inclusion rules as follows:

1. Enter the version of Supply/Demand Inclusion rules to use for active blanket order selection.
- For Manufacturing: Allows multiple versions of resource rules for running MPS, MRP, or DRP.
 - For Warehouse Management: Allows multiple versions of inclusion rules for running putaway and picking. The system processes only those order lines that match the inclusion rule for a specified branch/plant.

Associated Text

Print Associated Blanket Order Text

An option that specifies the type of processing for an event.

1. Enter a *1* to print associated blanket order text. If left blank, no associated text will be printed

Glossary of PeopleSoft Terms

activity	A scheduling entity in PeopleSoft EnterpriseOne Form Design Aid that represents a designated amount of time on a calendar.
activity rule	The criteria by which an object progresses from one given point to the next in a flow.
add mode	A condition of a form that enables users to input data.
Advanced Planning Agent (APAg)	A PeopleSoft EnterpriseOne tool that can be used to extract, transform, and load enterprise data. APAg supports access to data sources in the form of relational databases, flat file format, and other data or message encoding, such as XML.
application server	A server in a local area network that contains applications shared by network clients.
as if processing	A process that enables you to view currency amounts as if they were entered in a currency different from the domestic and foreign currency of the transaction.
alternate currency	A currency that is different from the domestic currency (when dealing with a domestic-only transaction) or the domestic and foreign currency of a transaction. In PeopleSoft EnterpriseOne Financial Management, alternate currency processing enables you to enter receipts and payments in a currency other than the one in which they were issued.
as of processing	A process that is run as of a specific point in time to summarize transactions up to that date. For example, you can run various PeopleSoft EnterpriseOne reports as of a specific date to determine balances and amounts of accounts, units, and so on as of that date.
back-to-back process	A process in PeopleSoft EnterpriseOne Workflow Management that contains the same keys that are used in another process.
batch processing	A process of transferring records from a third-party system to PeopleSoft EnterpriseOne. In PeopleSoft EnterpriseOne Financial Management, batch processing enables you to transfer invoices and vouchers that are entered in a system other than EnterpriseOne to PeopleSoft EnterpriseOne Accounts Receivable and PeopleSoft EnterpriseOne Accounts Payable, respectively. In addition, you can transfer address book information, including customer and supplier records, to PeopleSoft EnterpriseOne.
batch server	A server that is designated for running batch processing requests. A batch server typically does not contain a database nor does it run interactive applications.
batch-of-one immediate	A transaction method that enables a client application to perform work on a client workstation, then submit the work all at once to a server application for further processing. As a batch process is running on the server, the client application can continue performing other tasks. See also direct connect and store-and-forward.
business function	A named set of user-created, reusable business rules and logs that can be called through event rules. Business functions can run a transaction or a subset of a transaction (check inventory, issue work orders, and so on). Business functions also contain the application programming interfaces (APIs) that enable them to be called from a form, a database trigger, or a non-EnterpriseOne application. Business functions can be combined with other business functions, forms, event rules, and other components to make up an application. Business functions can be created through

	event rules or third-generation languages, such as C. Examples of business functions include Credit Check and Item Availability.
business function event rule	See named event rule (NER).
business view	A means for selecting specific columns from one or more PeopleSoft EnterpriseOne tables whose data is used in an application or report. A business view does not select specific rows, nor does it contain any actual data. It is strictly a view through which you can manipulate data.
central objects merge	A process that blends a customer's modifications to the objects in a current release with objects in a new release.
central server	A server that has been designated to contain the originally installed version of the software (central objects) for deployment to client computers. In a typical PeopleSoft EnterpriseOne installation, the software is loaded on to one machine—the central server. Then, copies of the software are pushed out or downloaded to various workstations attached to it. That way, if the software is altered or corrupted through its use on workstations, an original set of objects (central objects) is always available on the central server.
charts	Tables of information in PeopleSoft EnterpriseOne that appear on forms in the software.
connector	Component-based interoperability model that enables third-party applications and PeopleSoft EnterpriseOne to share logic and data. The PeopleSoft EnterpriseOne connector architecture includes Java and COM connectors.
contra/clearing account	A general ledger account in PeopleSoft EnterpriseOne Financial Management that is used by the system to offset (balance) journal entries. For example, you can use a contra/clearing account to balance the entries created by allocations in PeopleSoft EnterpriseOne General Accounting.
Control Table Workbench	An application that, during the installation Workbench processing, runs the batch applications for the planned merges that update the data dictionary, user-defined codes, menus, and user override tables.
control tables merge	A process that blends a customer's modifications to the control tables with the data that accompanies a new release.
cost assignment	The process in PeopleSoft EnterpriseOne Advanced Cost Accounting of tracing or allocating resources to activities or cost objects.
cost component	In PeopleSoft EnterpriseOne Manufacturing Management, an element of an item's cost (for example, material, labor, or overhead).
cross segment edit	A logic statement that establishes the relationship between configured item segments. Cross segment edits are used to prevent ordering of configurations that cannot be produced.
currency restatement	The process of converting amounts from one currency into another currency, generally for reporting purposes. You can use the currency restatement process, for example, when many currencies must be restated into a single currency for consolidated reporting.
database server	A server in a local area network that maintains a database and performs searches for client computers.
Data Source Workbench	An application that, during the Installation Workbench process, copies all data sources that are defined in the installation plan from the Data Source Master and Table and Data Source Sizing tables in the Planner data source to the System-release number data source. It also updates the Data Source Plan detail record to reflect completion.

date pattern	A calendar that represents the beginning date for the fiscal year and the ending date for each period in that year in standard and 52-period accounting.
denominated-in currency	The company currency in which financial reports are based.
deployment server	A server that is used to install, maintain, and distribute software to one or more enterprise servers and client workstations.
detail information	Information that relates to individual lines in PeopleSoft EnterpriseOne transactions (for example, voucher pay items and sales order detail lines).
direct connect	A transaction method in which a client application communicates interactively and directly with a server application. See also batch-of-one immediate and store-and-forward.
Do Not Translate (DNT)	A type of data source that must exist on the iSeries because of BLOB restrictions.
dual pricing	The process of providing prices for goods and services in two currencies.
edit code	A code that indicates how a specific value for a report or a form should appear or be formatted. The default edit codes that pertain to reporting require particular attention because they account for a substantial amount of information.
edit mode	A condition of a form that enables users to change data.
edit rule	A method used for formatting and validating user entries against a predefined rule or set of rules.
Electronic Data Interchange (EDI)	An interoperability model that enables paperless computer-to-computer exchange of business transactions between PeopleSoft EnterpriseOne and third-party systems. Companies that use EDI must have translator software to convert data from the EDI standard format to the formats of their computer systems.
embedded event rule	An event rule that is specific to a particular table or application. Examples include form-to-form calls, hiding a field based on a processing option value, and calling a business function. Contrast with the business function event rule.
Employee Work Center	A central location for sending and receiving all PeopleSoft EnterpriseOne messages (system and user generated), regardless of the originating application or user. Each user has a mailbox that contains workflow and other messages, including Active Messages.
enterprise server	A server that contains the database and the logic for PeopleSoft EnterpriseOne or PeopleSoft World.
EnterpriseOne object	A reusable piece of code that is used to build applications. Object types include tables, forms, business functions, data dictionary items, batch processes, business views, event rules, versions, data structures, and media objects.
EnterpriseOne process	A software process that enables PeopleSoft EnterpriseOne clients and servers to handle processing requests and run transactions. A client runs one process, and servers can have multiple instances of a process. PeopleSoft EnterpriseOne processes can also be dedicated to specific tasks (for example, workflow messages and data replication) to ensure that critical processes don't have to wait if the server is particularly busy.
Environment Workbench	An application that, during the Installation Workbench process, copies the environment information and Object Configuration Manager tables for each environment from the Planner data source to the System-release number data source. It also updates the Environment Plan detail record to reflect completion.
escalation monitor	A batch process that monitors pending requests or activities and restarts or forwards them to the next step or user after they have been inactive for a specified amount of time.

event rule	A logic statement that instructs the system to perform one or more operations based on an activity that can occur in a specific application, such as entering a form or exiting a field.
facility	An entity within a business for which you want to track costs. For example, a facility might be a warehouse location, job, project, work center, or branch/plant. A facility is sometimes referred to as a <i>business unit</i> .
fast path	A command prompt that enables the user to move quickly among menus and applications by using specific commands.
file server	A server that stores files to be accessed by other computers on the network. Unlike a disk server, which appears to the user as a remote disk drive, a file server is a sophisticated device that not only stores files, but also manages them and maintains order as network user request files and make changes to these files.
final mode	The report processing mode of a processing mode of a program that updates or creates data records.
FTP server	A server that responds to requests for files via file transfer protocol.
header information	Information at the beginning of a table or form. Header information is used to identify or provide control information for the group of records that follows.
interface table	See Z tables.
integration server	A server that facilitates interaction between diverse operating systems and applications across internal and external networked computer systems.
integrity test	A process used to supplement a company's internal balancing procedures by locating and reporting balancing problems and data inconsistencies.
interoperability model	A method for third-party systems to connect to or access PeopleSoft EnterpriseOne.
in-your-face-error	In PeopleSoft EnterpriseOne, a form-level property which, when enabled, causes the text of application errors to appear on the form.
IServer service	Developed by PeopleSoft, this internet server service resides on the web server and is used to speed up delivery of the Java class files from the database to the client.
jargon	An alternative data dictionary item description that PeopleSoft EnterpriseOne or People World displays based on the product code of the current object.
Java application server	A component-based server that resides in the middle-tier of a server-centric architecture. This server provides middleware services for security and state maintenance, along with data access and persistence.
JDBNET	A database driver that enables heterogeneous servers to access each other's data.
JDEBASE Database Middleware	A PeopleSoft proprietary database middleware package that provides platform-independent APIs, along with client-to-server access.
JDECallObject	An API used by business functions to invoke other business functions.
jde.ini	A PeopleSoft file (or member for iSeries) that provides the runtime settings required for EnterpriseOne initialization. Specific versions of the file or member must reside on every machine running PeopleSoft EnterpriseOne. This includes workstations and servers.
JDEIPC	Communications programming tools used by server code to regulate access to the same data in multiprocess environments, communicate and coordinate between processes, and create new processes.

jde.log	The main diagnostic log file of PeopleSoft EnterpriseOne. This file is always located in the root directory on the primary drive and contains status and error messages from the startup and operation of PeopleSoft EnterpriseOne.
JDENET	PeopleSoft proprietary communications middleware package. This package is a peer-to-peer, message-based, socket-based, multiprocess communications middleware solution. It handles client-to-server and server-to-server communications for all PeopleSoft EnterpriseOne supported platforms.
Location Workbench	An application that, during the Installation Workbench process, copies all locations that are defined in the installation plan from the Location Master table in the Planner data source to the System data source.
logic server	A server in a distributed network that provides the business logic for an application program. In a typical configuration, pristine objects are replicated on to the logic server from the central server. The logic server, in conjunction with workstations, actually performs the processing required when PeopleSoft EnterpriseOne and World software runs.
MailMerge Workbench	An application that merges Microsoft Word 6.0 (or higher) word-processing documents with PeopleSoft EnterpriseOne records to automatically print business documents. You can use MailMerge Workbench to print documents, such as form letters about verification of employment.
master business function (MBF)	An interactive master file that serves as a central location for adding, changing, and updating information in a database. Master business functions pass information between data entry forms and the appropriate tables. These master functions provide a common set of functions that contain all of the necessary default and editing rules for related programs. MBFs contain logic that ensures the integrity of adding, updating, and deleting information from databases.
master table	See published table.
matching document	A document associated with an original document to complete or change a transaction. For example, in PeopleSoft EnterpriseOne Financial Management, a receipt is the matching document of an invoice, and a payment is the matching document of a voucher.
media storage object	Files that use one of the following naming conventions that are not organized into table format: Gxxx, xxxGT, or GTxxx.
message center	A central location for sending and receiving all PeopleSoft EnterpriseOne messages (system and user generated), regardless of the originating application or user.
messaging adapter	An interoperability model that enables third-party systems to connect to PeopleSoft EnterpriseOne to exchange information through the use of messaging queues.
messaging server	A server that handles messages that are sent for use by other programs using a messaging API. Messaging servers typically employ a middleware program to perform their functions.
named event rule (NER)	Encapsulated, reusable business logic created using event rules, rather than C programming. NERs are also called business function event rules. NERs can be reused in multiple places by multiple programs. This modularity lends itself to streamlining, reusability of code, and less work.
<i>nota fiscal</i>	In Brazil, a legal document that must accompany all commercial transactions for tax purposes and that must contain information required by tax regulations.
<i>nota fiscal factura</i>	In Brazil, a <i>nota fiscal</i> with invoice information. See also <i>nota fiscal</i> .

Object Configuration Manager (OCM)	In PeopleSoft EnterpriseOne, the object request broker and control center for the runtime environment. OCM keeps track of the runtime locations for business functions, data, and batch applications. When one of these objects is called, OCM directs access to it using defaults and overrides for a given environment and user.
Object Librarian	A repository of all versions, applications, and business functions reusable in building applications. Object Librarian provides check-out and check-in capabilities for developers, and it controls the creation, modification, and use of PeopleSoft EnterpriseOne objects. Object Librarian supports multiple environments (such as production and development) and enables objects to be easily moved from one environment to another.
Object Librarian merge	A process that blends any modifications to the Object Librarian in a previous release into the Object Librarian in a new release.
Open Data Access (ODA)	An interoperability model that enables you to use SQL statements to extract PeopleSoft EnterpriseOne data for summarization and report generation.
Output Stream Access (OSA)	An interoperability model that enables you to set up an interface for PeopleSoft EnterpriseOne to pass data to another software package, such as Microsoft Excel, for processing.
package	EnterpriseOne objects are installed to workstations in packages from the deployment server. A package can be compared to a bill of material or kit that indicates the necessary objects for that workstation and where on the deployment server the installation program can find them. It is point-in-time snap shot of the central objects on the deployment server.
package build	A software application that facilitates the deployment of software changes and new applications to existing users. Additionally, in PeopleSoft EnterpriseOne, a package build can be a compiled version of the software. When you upgrade your version of the ERP software, for example, you are said to take a package build. Consider the following context: “Also, do not transfer business functions into the production path code until you are ready to deploy, because a global build of business functions done during a package build will automatically include the new functions.” The process of creating a package build is often referred to, as it is in this example, simply as “a package build.”
package location	The directory structure location for the package and its set of replicated objects. This is usually \\deployment server\release\path_code\package\package name. The subdirectories under this path are where the replicated objects for the package are placed. This is also referred to as where the package is built or stored.
Package Workbench	An application that, during the Installation Workbench process, transfers the package information tables from the Planner data source to the System-release number data source. It also updates the Package Plan detail record to reflect completion.
PeopleSoft Database	See JDEBASE Database Middleware.
planning family	A means of grouping end items whose similarity of design and manufacture facilitates being planned in aggregate.
preference profile	The ability to define default values for specified fields for a user-defined hierarchy of items, item groups, customers, and customer groups.
print server	The interface between a printer and a network that enables network clients to connect to the printer and send their print jobs to it. A print server can be a computer, separate hardware device, or even hardware that resides inside of the printer itself.
pristine environment	A PeopleSoft EnterpriseOne environment used to test unaltered objects with PeopleSoft demonstration data or for training classes. You must have this environment so that you can compare pristine objects that you modify.

processing option	A data structure that enables users to supply parameters that regulate the running of a batch program or report. For example, you can use processing options to specify default values for certain fields, to determine how information appears or is printed, to specify date ranges, to supply runtime values that regulate program execution, and so on.
production environment	A PeopleSoft EnterpriseOne environment in which users operate EnterpriseOne software.
production-grade file server	A file server that has been quality assurance tested and commercialized and that is usually provided in conjunction with user support services.
program temporary fix (PTF)	A representation of changes to PeopleSoft software that your organization receives on magnetic tapes or disks.
project	In PeopleSoft EnterpriseOne, a virtual container for objects being developed in Object Management Workbench.
promotion path	The designated path for advancing objects or projects in a workflow. The following is the normal promotion cycle (path): 11>21>26>28>38>01 In this path, 11 equals new project pending review, 21 equals programming, 26 equals QA test/review, 28 equals QA test/review complete, 38 equals in production, 01 equals complete. During the normal project promotion cycle, developers check objects out of and into the development path code and then promote them to the prototype path code. The objects are then moved to the productions path code before declaring them complete.
proxy server	A server that acts as a barrier between a workstation and the internet so that the enterprise can ensure security, administrative control, and caching service.
published table	Also called a master table, this is the central copy to be replicated to other machines. Residing on the publisher machine, the F98DRPUB table identifies all of the published tables and their associated publishers in the enterprise.
publisher	The server that is responsible for the published table. The F98DRPUB table identifies all of the published tables and their associated publishers in the enterprise.
pull replication	One of the PeopleSoft methods for replicating data to individual workstations. Such machines are set up as pull subscribers using PeopleSoft EnterpriseOne data replication tools. The only time that pull subscribers are notified of changes, updates, and deletions is when they request such information. The request is in the form of a message that is sent, usually at startup, from the pull subscriber to the server machine that stores the F98DRPCN table.
QBE	An abbreviation for query by example. In PeopleSoft EnterpriseOne, the QBE line is the top line on a detail area that is used for filtering data.
real-time event	A service that uses system calls to capture PeopleSoft EnterpriseOne transactions as they occur and to provide notification to third-party software, end users, and other PeopleSoft systems that have requested notification when certain transactions occur.
refresh	A function used to modify PeopleSoft EnterpriseOne software, or subset of it, such as a table or business data, so that it functions at a new release or cumulative update level, such as B73.2 or B73.2.1.
replication server	A server that is responsible for replicating central objects to client machines.
quote order	In PeopleSoft EnterpriseOne Procurement and Subcontract Management, a request from a supplier for item and price information from which you can create a purchase order.

	In PeopleSoft EnterpriseOne Sales Order Management, item and price information for a customer who has not yet committed to a sales order.
selection	Found on PeopleSoft menus, a selection represents functions that you can access from a menu. To make a selection, type the associated number in the Selection field and press Enter.
Server Workbench	An application that, during the Installation Workbench process, copies the server configuration files from the Planner data source to the System-release number data source. It also updates the Server Plan detail record to reflect completion.
spot rate	An exchange rate entered at the transaction level. This rate overrides the exchange rate that is set up between two currencies.
Specification merge	A merge that comprises three merges: Object Librarian merge, Versions List merge, and Central Objects merge. The merges blend customer modifications with data that accompanies a new release.
specification	A complete description of a PeopleSoft EnterpriseOne object. Each object has its own specification, or name, which is used to build applications.
Specification Table Merge Workbench	An application that, during the Installation Workbench process, runs the batch applications that update the specification tables.
store-and-forward	The mode of processing that enables users who are disconnected from a server to enter transactions and then later connect to the server to upload those transactions.
subscriber table	Table F98DRSUB, which is stored on the publisher server with the F98DRPUB table and identifies all of the subscriber machines for each published table.
supplemental data	Any type of information that is not maintained in a master file. Supplemental data is usually additional information about employees, applicants, requisitions, and jobs (such as an employee's job skills, degrees, or foreign languages spoken). You can track virtually any type of information that your organization needs. For example, in addition to the data in the standard master tables (the Address Book Master, Customer Master, and Supplier Master tables), you can maintain other kinds of data in separate, generic databases. These generic databases enable a standard approach to entering and maintaining supplemental data across PeopleSoft EnterpriseOne systems.
table access management (TAM)	The PeopleSoft EnterpriseOne component that handles the storage and retrieval of use-defined data. TAM stores information, such as data dictionary definitions; application and report specifications; event rules; table definitions; business function input parameters and library information; and data structure definitions for running applications, reports, and business functions.
Table Conversion Workbench	An interoperability model that enables the exchange of information between PeopleSoft EnterpriseOne and third-party systems using non-PeopleSoft EnterpriseOne tables.
table conversion	An interoperability model that enables the exchange of information between PeopleSoft EnterpriseOne and third-party systems using non-PeopleSoft EnterpriseOne tables.
table event rules	Logic that is attached to database triggers that runs whenever the action specified by the trigger occurs against the table. Although PeopleSoft EnterpriseOne enables event rules to be attached to application events, this functionality is application specific. Table event rules provide embedded logic at the table level.
terminal server	A server that enables terminals, microcomputers, and other devices to connect to a network or host computer or to devices attached to that particular computer.

three-tier processing	The task of entering, reviewing and approving, and posting batches of transactions in PeopleSoft EnterpriseOne.
three-way voucher match	In PeopleSoft EnterpriseOne Procurement and Subcontract Management, the process of comparing receipt information to supplier's invoices to create vouchers. In a three-way match, you use the receipt records to create vouchers.
transaction processing (TP) monitor	A monitor that controls data transfer between local and remote terminals and the applications that originated them. TP monitors also protect data integrity in the distributed environment and may include programs that validate data and format terminal screens.
transaction set	An electronic business transaction (electronic data interchange standard document) made up of segments.
trigger	One of several events specific to data dictionary items. You can attach logic to a data dictionary item that the system processes automatically when the event occurs.
triggering event	A specific workflow event that requires special action or has defined consequences or resulting actions.
two-way voucher match	In PeopleSoft EnterpriseOne Procurement and Subcontract Management, the process of comparing purchase order detail lines to the suppliers' invoices to create vouchers. You do not record receipt information.
User Overrides merge	Adds new user override records into a customer's user override table.
variance	In Capital Asset Management, the difference between revenue generated by a piece of equipment and costs incurred by the equipment. In EnterpriseOne Project Costing and EnterpriseOne Manufacturing Management, the difference between two methods of costing the same item (for example, the difference between the frozen standard cost and the current cost is an engineering variance). Frozen standard costs come from the Cost Components table, and the current costs are calculated using the current bill of material, routing, and overhead rates.
Version List merge	The Versions List merge preserves any non-XJDE and non-ZJDE version specifications for objects that are valid in the new release, as well as their processing options data.
visual assist	Forms that can be invoked from a control via a trigger to assist the user in determining what data belongs in the control.
vocabulary override	An alternate description for a data dictionary item that appears on a specific PeopleSoft EnterpriseOne or World form or report.
wchar_t	An internal type of a wide character. It is used for writing portable programs for international markets.
web application server	A web server that enables web applications to exchange data with the back-end systems and databases used in eBusiness transactions.
web server	A server that sends information as requested by a browser, using the TCP/IP set of protocols. A web server can do more than just coordination of requests from browsers; it can do anything a normal server can do, such as house applications or data. Any computer can be turned into a web server by installing server software and connecting the machine to the internet.
Windows terminal server	A multiuser server that enables terminals and minimally configured computers to display Windows applications even if they are not capable of running Windows software themselves. All client processing is performed centrally at the Windows terminal server and only display, keystroke, and mouse commands are transmitted over the network to the client terminal device.

work day calendar	In EnterpriseOne Manufacturing Management, a calendar that is used in planning functions that consecutively lists only working days so that component and work order scheduling can be done based on the actual number of work days available. A work day calendar is sometimes referred to as planning calendar, manufacturing calendar, or shop floor calendar.
workflow	The automation of a business process, in whole or in part, during which documents, information, or tasks are passed from one participant to another for action, according to a set of procedural rules.
workgroup server	A server that usually contains subsets of data replicated from a master network server. A workgroup server does not perform application or batch processing.
XAPI events	A service that uses system calls to capture PeopleSoft EnterpriseOne transactions as they occur and then calls third-party software, end users, and other PeopleSoft systems that have requested notification when the specified transactions occur to return a response.
XML CallObject	An interoperability capability that enables you to call business functions.
XML Dispatch	An interoperability capability that provides a single point of entry for all XML documents coming into PeopleSoft EnterpriseOne for responses.
XML List	An interoperability capability that enables you to request and receive PeopleSoft EnterpriseOne database information in chunks.
XML Service	An interoperability capability that enables you to request events from one PeopleSoft EnterpriseOne system and receive a response from another PeopleSoft EnterpriseOne system.
XML Transaction	An interoperability capability that enables you to use a predefined transaction type to send information to or request information from PeopleSoft EnterpriseOne. XML transaction uses interface table functionality.
XML Transaction Service (XTS)	Transforms an XML document that is not in the PeopleSoft EnterpriseOne format into an XML document that can be processed by PeopleSoft EnterpriseOne. XTS then transforms the response back to the request originator XML format.
Z event	A service that uses interface table functionality to capture PeopleSoft EnterpriseOne transactions and provide notification to third-party software, end users, and other PeopleSoft systems that have requested to be notified when certain transactions occur.
Z table	A working table where non-PeopleSoft EnterpriseOne information can be stored and then processed into PeopleSoft EnterpriseOne. Interface tables also can be used to retrieve PeopleSoft EnterpriseOne data. Interface tables are also known as interface tables.
Z transaction	Third-party data that is properly formatted in interface tables for updating to the PeopleSoft EnterpriseOne database.

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