

MFG/PRO® eB

Supplier Schedules

TRAINING GUIDE



70-2815B
MFG/PRO eB
Database: Train
July 2001

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VIII MFG/PRO TRAINING GUIDE — SUPPLIER SCHEDULES

About This Course



Course Description

QAD designed this course to cover the basics of preparing to implement the supplier schedules functionality of MFG/PRO. This course includes:

- An introduction to supplier schedules
- An overview of key business considerations
- Setting up supplier schedules
- Operating supplier schedules
- References to other QAD materials
- Activities and exercises throughout the course
 - Students practice key concepts and processes in supplier schedules

Students learn how to:

- Analyze some key business decisions before setting up supplier schedules
- Set up and operate supplier schedules

Who Should Attend This Course

- Implementation consultants
- Members of implementation teams
- Operators
- Information Systems (IS staff who support the EDI/EDI ECommerce interfaces)

Prerequisites

- *Initial MFG/PRO Setup* training course
- Basic knowledge of:
 - Hardware and network configurations
 - MFG/PRO as it is used in the business
- Working knowledge of:
 - The manufacturing industry in general

Note Students unfamiliar with MFG/PRO should work through the User Interface Guide before attending this class.

Approximate Length of Course

- This course is designed to be taught in two days

Topics Covered

Set Up Supplier Schedules

- Item Records
- Supplier Records
- Supplier Calendars
- Scheduled Orders
- MRP Percentage

Process Scheduled Order

- Create Schedule Release
- Review/Modify Schedule Release
- Transmit Schedule Release
- Supplier Schedule Export

Receive Shipments

- Receipt Processing
- Import ASN
- Receive Shipper
- Direct Receipt

Special Processes

EDI

- Configure EDI Control File
- Purpose Codes
- Modify User-Edited Programs
- Trading Partner Parameters

– Site Ship-From ID

Related Courses

Initial MFG/PRO Setup
Best Pricing
Sales Order Management
Purchase Order Management
Material Requirements Planning
Customer Schedules
ECommerce

Certification Preparation

This course is one of several courses designed to assist students in preparing for QAD certification examination(s). However, QAD does not guarantee anyone a passing grade as a result of having taken this course.

Students preparing for certification examinations should study all available materials (user guides, training guides, on-line help, for example) and acquire industry and field experience.

Using this Training Guide

Implementation consultants, members of implementation teams, and operators can use this guide in instructor-led classes, while knowledgeable consultants who want to learn about supplier schedules can use this guide for self-study.

This training guide provides a road map for instruction and learning. It contains:

- Annotated PowerPoint slides for instructors
- MFG/PRO screens annotated for instructors to demonstrate functionality
- References to other sections of this training guide and related training courses
- Exercises and study questions

Cross-Reference Icons

Additional Information



Directs students to another section of the current training guide



Cross-references another MFG/PRO training guide

Note Students may want to consult *User Guides* or on-line help during class, but this generally is not necessary.

Notes to Instructors

PowerPoint Slides

QAD created the slides using Microsoft® PowerPoint® 97. Instructors may want to animate text, graphics, and other objects on the slides to

- Focus on important points
- Control the flow of information
- Add interest and variety to the presentation

Clicking on *Animation Preview* on the *Slide Show* menu previews animation of text and objects. To customize slides, click on *Custom Animation* on the *Slide Show* menu.

PowerPoint Slide Icons



Informs instructors that another slide follows.



Directs students to training exercises.



Announces that a lesson is complete; there are no more slides in the section.

Class Kit

Kit for Students

- Supplier Schedule Training Guide, 70-XXXX
- MFG/PRO eB GUI demo CD, 10-0631
 - Install the database entitled Train for the exercises in this training course

Self-study students will require the following additional materials:

- MFG/PRO User Guides (printed material and compact disk are available from QAD Fulfillment, and electronic copies are available on the QAD website)
 - Volume 1 Introduction
 - Volume 7 Release Management
 - Volume 3 Manufacturing

Kit for Instructors

The instructor kit is the same as the student kit with the addition of the PowerPoint slides.

Configuration and Setup for This Course

For hardware requirements, refer to the Readme files on the MFG/PRO demo CDs.

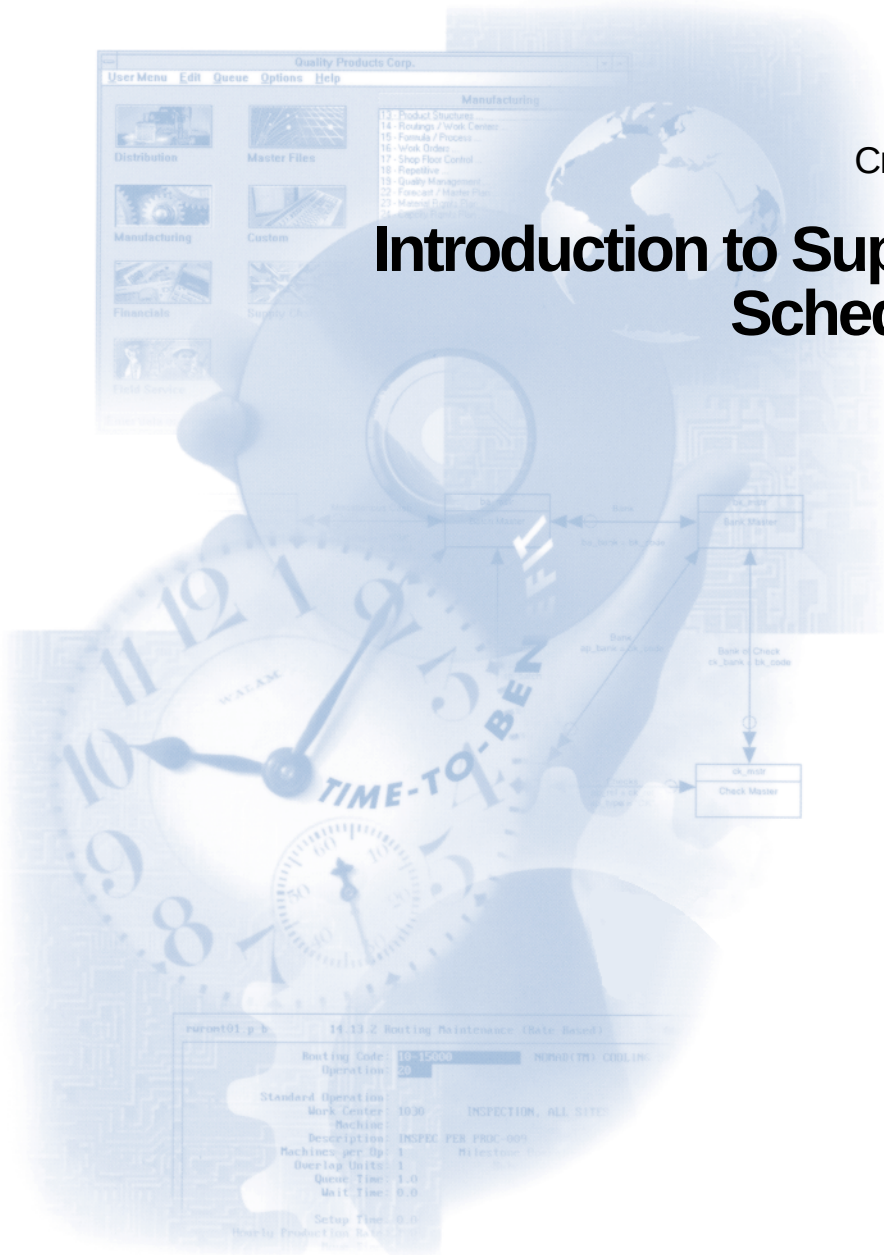


General Training Facilities Information

- Telephone or fax
- Messages
- Restrooms
- Class hours: start and finish times, and punctuality
- Breaks: frequency, approximate times
- Parking considerations; carpooling
- Emergency procedures: location of first aid, contact person for assistance
- Exit locations, building hours
- Location of approved smoking area

CHAPTER 1

Introduction to Supplier Schedules



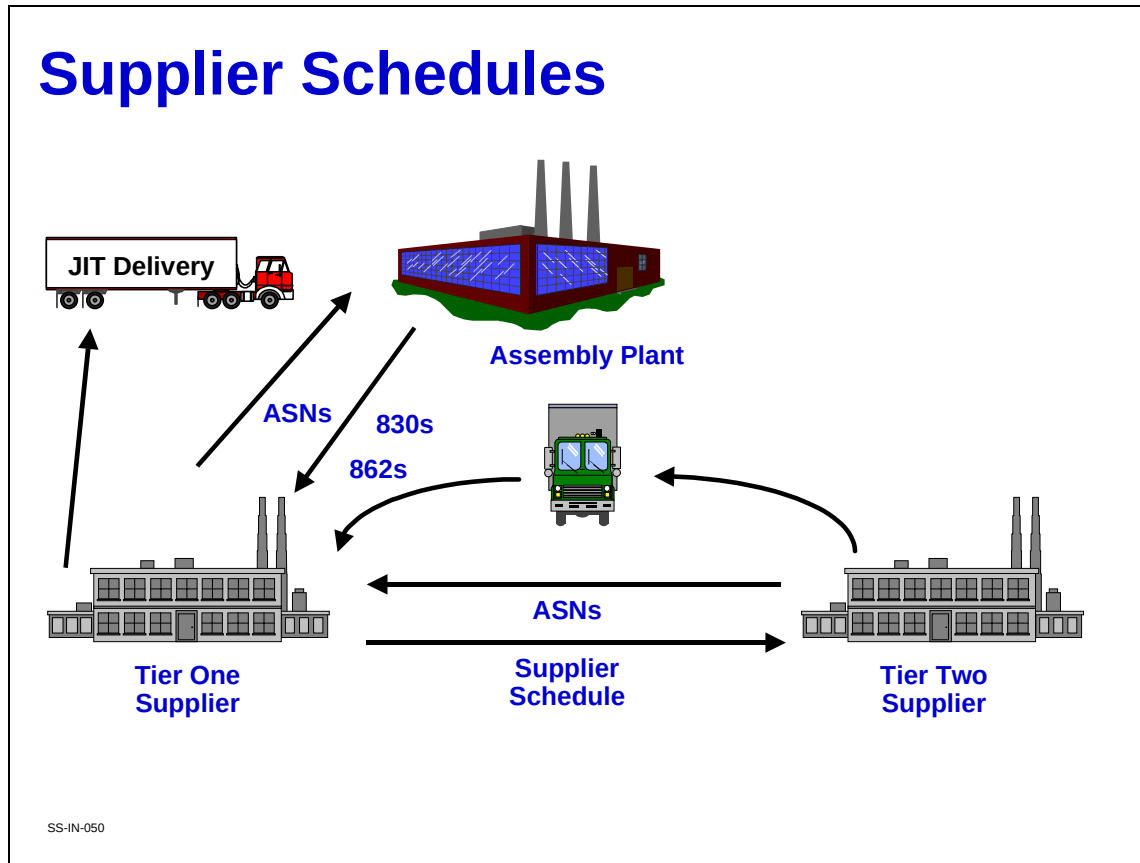


Course Overview

- ♦ Introduction to Supplier Schedules
- ♦ Business Considerations
- ♦ Set up Supplier Schedules
- ♦ Process Supplier Schedules
- ♦ Process Supplier Schedules Receipts

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Overview



Supplier Schedules

Supplier schedules are period-oriented schedules that are generated on a daily, weekly, or monthly basis. They have their roots in practices developed by the automotive industry.

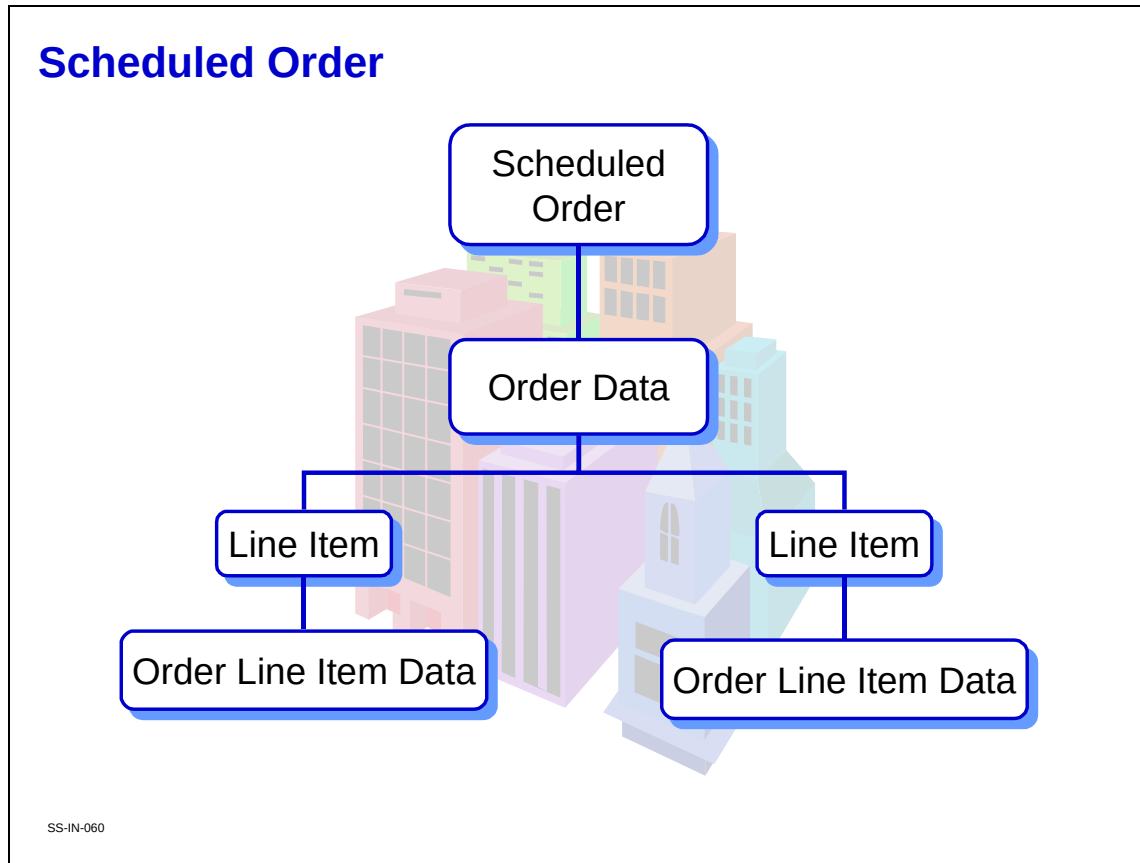
- The automotive industry requires the communication of releases and the sending of Advanced Ship Notices (ASNs)
 - Some companies only pay for the ASN
- Supplier schedules allow automotive companies to maintain an uninterrupted flow of work through manufacturing, while maintaining minimum levels of inventory

Companies using supplier scheduling share a common profile:

- High production volumes

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- Long term commitments with suppliers
- Frequent shipments from suppliers
- Normally use EDI (Electronic Data Interchange) or EDI/ECommerce



Scheduled Order

When you create a scheduled order, you define several parameters which the system uses to calculate receipt, planning, and shipping schedules for the individual items you are purchasing. These items are entered on the separate order lines. A scheduled order combines fields normally found on a purchase order header with order trailer fields and specific line item information. This information forms the structural base against which item quantities and dates are scheduled.

Order Data

The order data applies to the entire order. There are two sections. The first section identifies the purchase order and supplier.

- The purchase order number can be system or user assigned

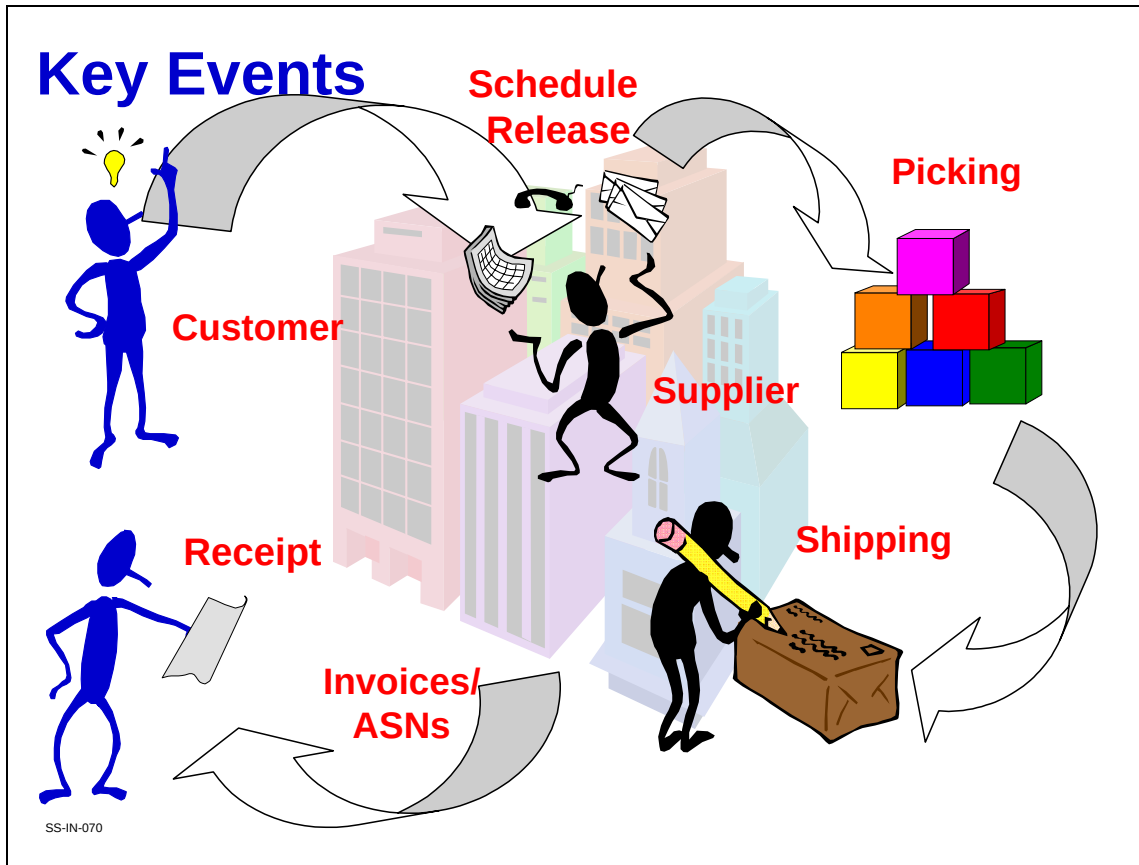
The second section is the Order Data frame. This frame contains the shipping, credit information, and how to transmit the order to the supplier (fax, EDI). You also have the option of entering comments for the entire order.

Order Line Item Data

After completing the order data, you enter specific order line item data. You do this using the Order Line Item data frames. For each line item you enter information such as:

- Item number for the item being purchased
- Site receiving the purchased item
- Line item details
- Schedule details

You also have the option of entering comments for each line item.

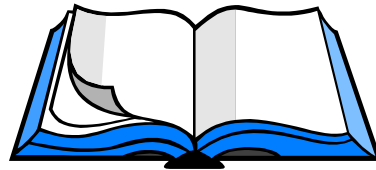


Key Events

- Customer determines what they need and when they need it
 - Runs Material Requirements Planning (MRP)
 - Creates a scheduled order
- Schedule release sent to supplier
- Order items are picked
- Order is shipped
- Customer receives order

Terminology

- ★ Advanced Ship Notice (ASN)
- ★ Electronic Data Interchange (EDI)
- ★ EDI ECommerce
- ★ Fabrication/Raw Material Authorization
- ★ Release
- ★ Scheduled Order



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Terminology

Advanced Ship Notice (ASN)

An electronic document derived from a shipper document and sent by a supplier to a customer when a shipment leaves the supplier site, informing the customer that the shipment is on the way. Also called an 856 Transaction Set per ANSI ASC X12. An ASN takes the place of an invoice in some supplier-customer arrangements.

Electronic Data Interchange (EDI)

An international protocol for electronically transmitting documents such as customer schedules, invoices, and ASNs between trading partners.

EDI ECommerce

The enhanced EDI component of MFG/PRO eB.

Fabrication/Raw Material Authorization

Customer communication authorizing supplier to fabricate items through a specified time period. Acts as the customer's agreement to pay for all items fabricated within the authorization horizon.

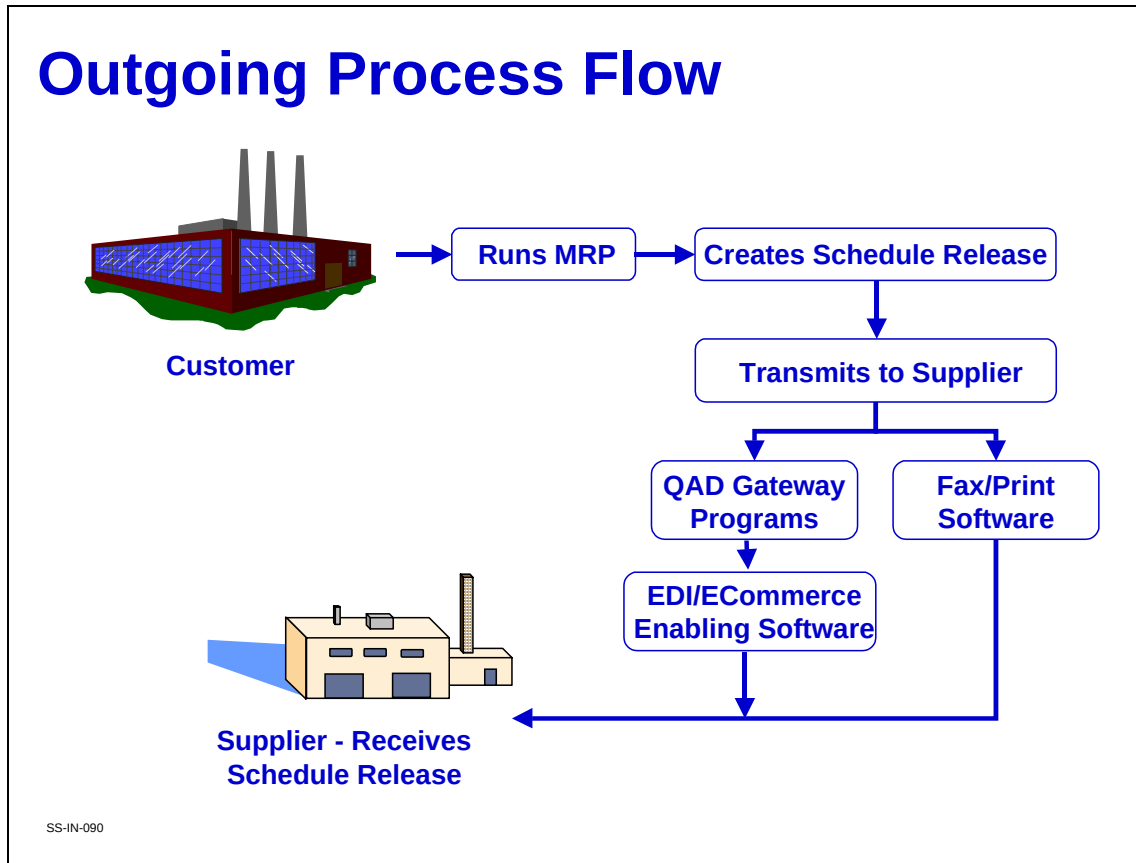
Customer's agreement to pay a supplier for materials the supplier purchases for a scheduled item within a specified time period.

Release

A schedule based on a scheduled order.

Scheduled Order

A specialized sales or purchase order with schedules attached to it and an indefinite life. Serves as the basis for customer and supplier schedules.



Outgoing Process Flow

Supplier schedules allow you to manage the relationships with suppliers to whom you transmit period-oriented demand with statements called releases.

- Releases are typically sent using EDI or ECommerce
- Releases can be sent by fax or a printed release

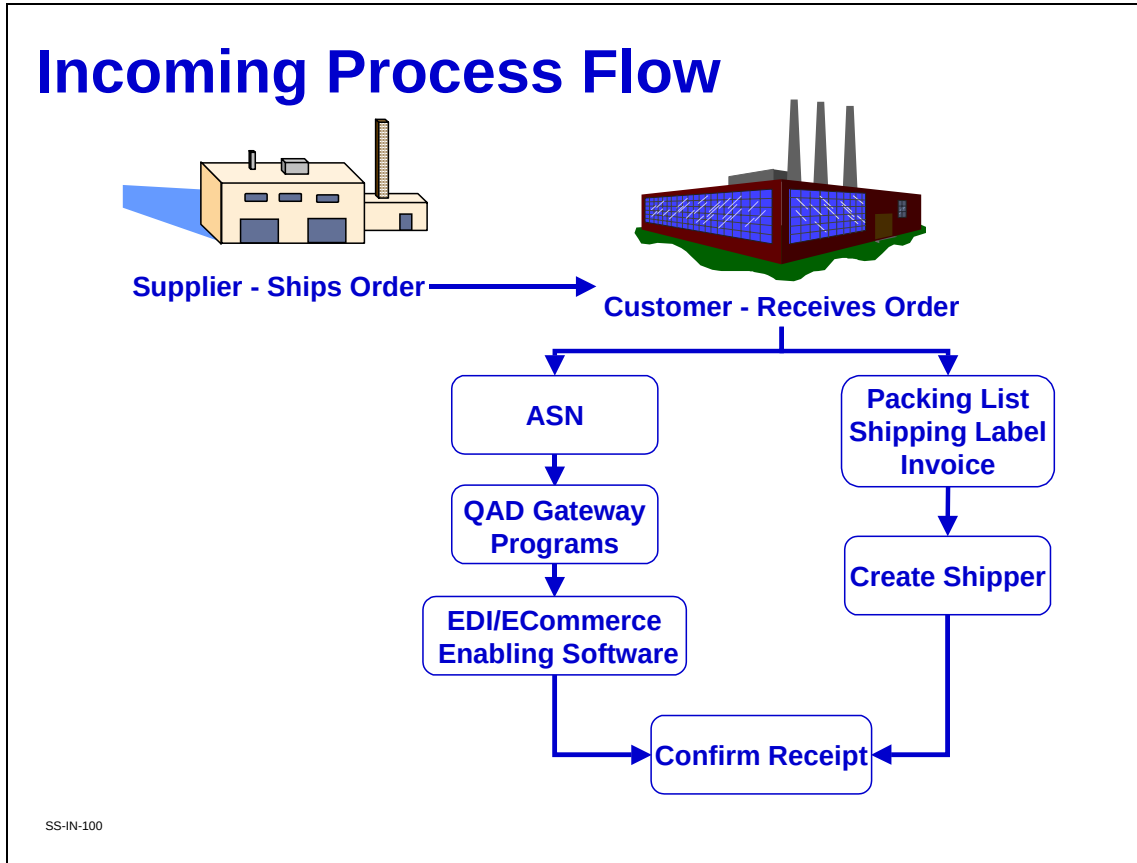
With EDI/ECommerce

- Release information is taken from MFG/PRO's supplier schedules
- Mapped through the MFG/PRO gateway programs into EDI/ECommerce readable messages

- EDI/ECommerce enabling software is used to export the releases to a supplier's computer or electronic mailbox
 - Each supplier may have their own EDI/ECommerce requirements and signal standards
 - Handled by the EDI/ECommerce enabling software after the information is passed from MFG/PRO

Without EDI/ECommerce

- Schedule releases can be printed and faxed, or a fax server used for transmission
- Can be printed and sent



Incoming Process Flow

With EDI/ECommerce

Many suppliers have the ability to send Advance Ship Notices (ASNs) by EDI/ECommerce when a shipment is made.

- Often occurs when there is a significant transportation lead time involved, or
- If the supply chain has recognized the advantage of single keying of dispatches/receipts

ASNs reduce the need for expediting at the customer end.

- Provides visibility while the goods are still in transit

Note If you are using EDI/ECommerce, an ASN merely needs to be received for items and quantities to make a receipt, rather than keying in all the details again.

Without EDI/ECommerce

- Create a shipper
- Receive the shipper



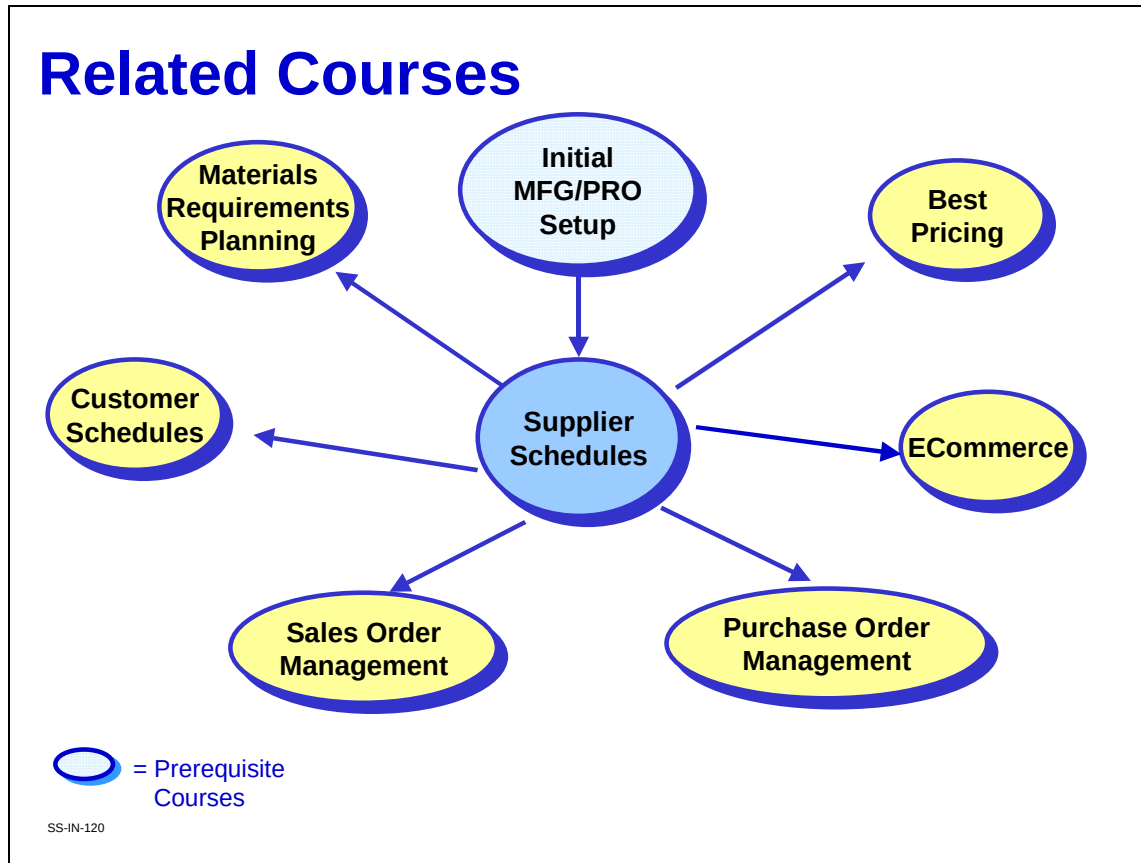
Course Objectives

In this class you learn how to:

- ◆ Identify some key business considerations before setting up Supplier Schedules in MFG/PRO
- ◆ Set up Supplier Schedules in MFG/PRO
- ◆ Process Supplier Schedules in MFG/PRO
- ◆ Process Supplier Schedules Receipts in MFG/PRO

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Course Objectives



Related Courses



Course Overview

- ✓ Introduction to Supplier Schedules
- ◆ Business Considerations
- ◆ Set up Supplier Schedules
- ◆ Process Supplier Schedules
- ◆ Process Supplier Schedules Receipts

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CHAPTER 2

Business Considerations





Business Considerations

In this section you learn how to:

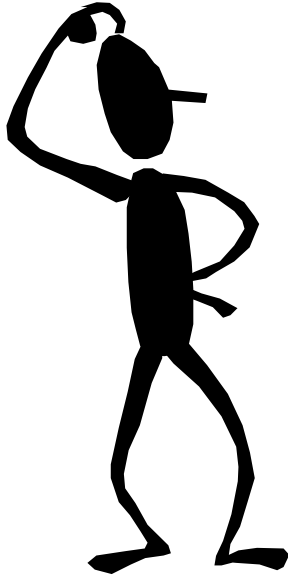
✓ **Identify some key business considerations before setting up Supplier Schedules**

- ♦ Set up Supplier Schedules in MFG/PRO
- ♦ Process Supplier Schedules in MFG/PRO
- ♦ Process Supplier Schedules Receipts in MFG/PRO

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Business Considerations

Business Considerations



- ▲ Tracking
- ▲ EDI/EDI ECommerce
- ▲ Price Lists
- ▲ Planning Horizon
- ▲ Evaluated Receipts Settlement (ERS)

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There are several business considerations to look at before setting up MFG/PRO. This section does not discuss all potential considerations, but presents several to generate thought and discussion.

Tracking – Cumulative

Period	1	2	3	4	5	6
Net Demand	1,000	1,000	1,000	1,000	1,000	1,000
Cumulative	1,000	2,000	3,000	4,000	5,000	6,000
	Cum Start					
Cum shipped = 2,500						
Net Required Qty.	0	0	500	1,000	1,000	1,000

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Tracking

Definition

Accounting method in which trading partners maintain totals of required and shipped/received quantities. There are two methods:

- Cumulative
- Non-Cumulative (i.e., based on net requirements)

Cumulative accounting maintains running totals for each shipped/received quantity. Non-cumulative accounting methods are calculated from discrete quantities and are adjusted using the cumulative quantity required less the cumulative quantity received or shipped.

Why Consider?

- Traditionally schedules in the automotive industry have been based on cumulative accounting:
 - Total schedule quantity determined for a period, often a year
 - Effect of each shipment to a customer was calculated based on a cumulative total
- Today many business environments use release management to ship against specific requirements:

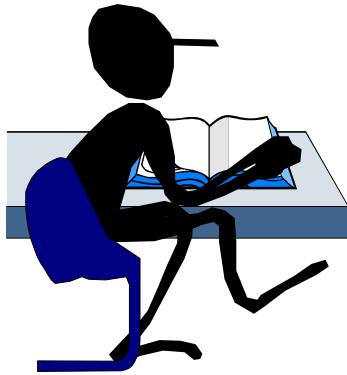
Functionality in MFG/PRO

- Monitor received/shipped quantities:
 - Quantities can be adjusted

Setup Implications

- Scheduled Order Maintenance 5.5.1.13 needs to be set up to reflect when quantities begin to accumulate:
 - Agreed upon between you and your supplier

Tracking Terminology



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- ↪ Cum Received
- ↪ Cum Required
- ↪ Cum Shipped
- ↪ Cum Start Date
- ↪ Cumulative Accounting
- ↪ Prior Cum Date
- ↪ Prior Cum Required

Tracking Terminology

Cum Received

The cumulative total received by the customer. Basically, the difference between Cum Shipped and Cum Received is the quantity of goods in transit at the time of schedule release creation. This can also cover goods which are the subject of a quality dispute or other disagreement.

Note MFG/PRO works from the viewpoint of Cum Shipped in demand calculations so that in-transit goods are not manufactured twice.

Cum Required

The gross cumulative quantity on order at any point in a customer schedule.

Cum Shipped

The cumulative total shipped by the supplier.

Cum Start Date

The date on which the scheduled order cumulative shipped and received was begun.

Cumulative Accounting

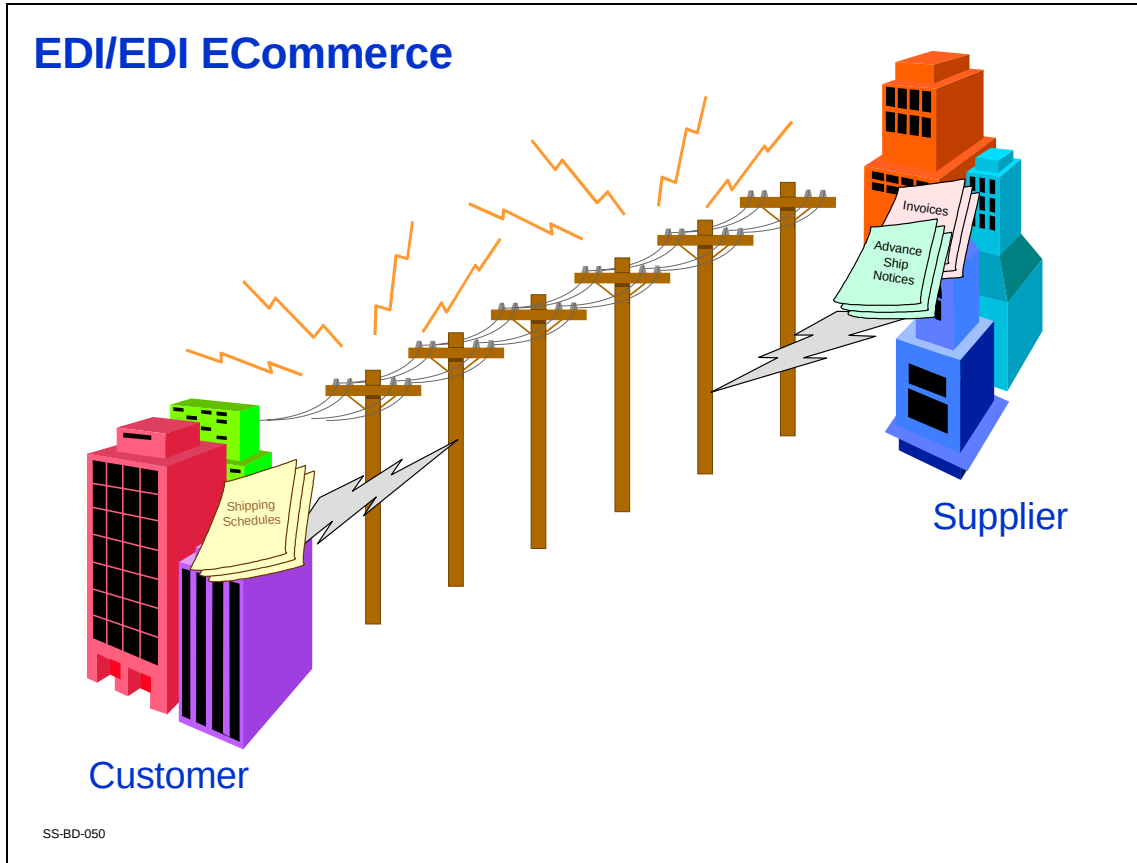
A generic term covering the calculations involved in arriving at running totals.

Prior Cum Date

Usually the day before creation of the schedule release. This date is the point of calculation of the current trading position, used to determine the Prior Cum Required quantity.

Prior Cum Required

The cumulative quantity on the whole order that was required by the customer by the Prior Cum Date. This, along with Cum Shipped, is used to calculate any back order which may exist.



EDI/EDI ECommerce

Definition of EDI

An international protocol defining the means and methods for electronic transmission of documents between trading partners. Documents are transmitted in a highly structured format that can be processed by computer software.

Definition of ECommerce

ECommerce is the interface between MFG/PRO and third-party EDI communications or translator products called EC subsystems. The ECommerce enhances the system's ability to manipulate, analyze, edit, and reprocess EDI data.

Why Consider?

- Time saving:
 - Information processed faster
 - Shortened response times
- Reduced data input:
 - Reduces errors
- Saves labor costs:
 - Reduces/eliminates paperwork, fewer people are needed
- Lower inventory levels

Functionality in MFG/PRO

- Support import of ASNs (856) and invoices (810)
- Support export of schedule releases (830)

Setup Implications

- EDI/ECommerce software, files, etc., need to be setup
- Modify user-edited programs to meet trading partner requirements
- Trading Partner Parameters Maintenance 35.1 needs to be set up
- Supplier Maintenance 2.3.1 needs to be set up with supplier information
- Supplier Item Maintenance 1.19 needs to be set up with supplier item cross-references:
 - Document Import 35.13 recognizes the supplier item number on the imported document and converts it to your internal item number



Discussed in the following Training Guide: ECommerce



See in this training guide: *EDI Overview* on page 181

Price Lists

Price List Maintenance

User Menu Edit Queue Options Help

Price List: 10 Currency: CAD

Product Line:

Item Number:

UM:

Start: 01/01/90

Expire: 12/31/99

Amount Type: D P-Price D-Disc M-Markup% L-List

Can only use Amount Type P

Item Master List Price:				Stock UM:	
Total This Level GL Cost:				Site:	
Total GL Cost:					
Min Qty	Disc Pct	Min Qty	Disc Pct	Min Qty	Disc Pct
0	7.0	0	0.0	0	0.0
0	0.0	0	0.0	0	0.0
0	0.0	0	0.0	0	0.0
0	0.0	0	0.0	0	0.0
0	0.0	0	0.0	0	0.0

F1=Help F2=Go ESC=End *Next/Prev Ctrl-X/C/V=Cut-Copy-Paste

SS-BD-060

Price Lists

Definition

A price structure defining specific prices, discounts, and markups at different quantity levels. Can be stated in terms of company base currency or any other currency.

Why Consider?

Provide a convenient tool for inputting item prices for suppliers, without having to perpetually maintain the scheduled order.

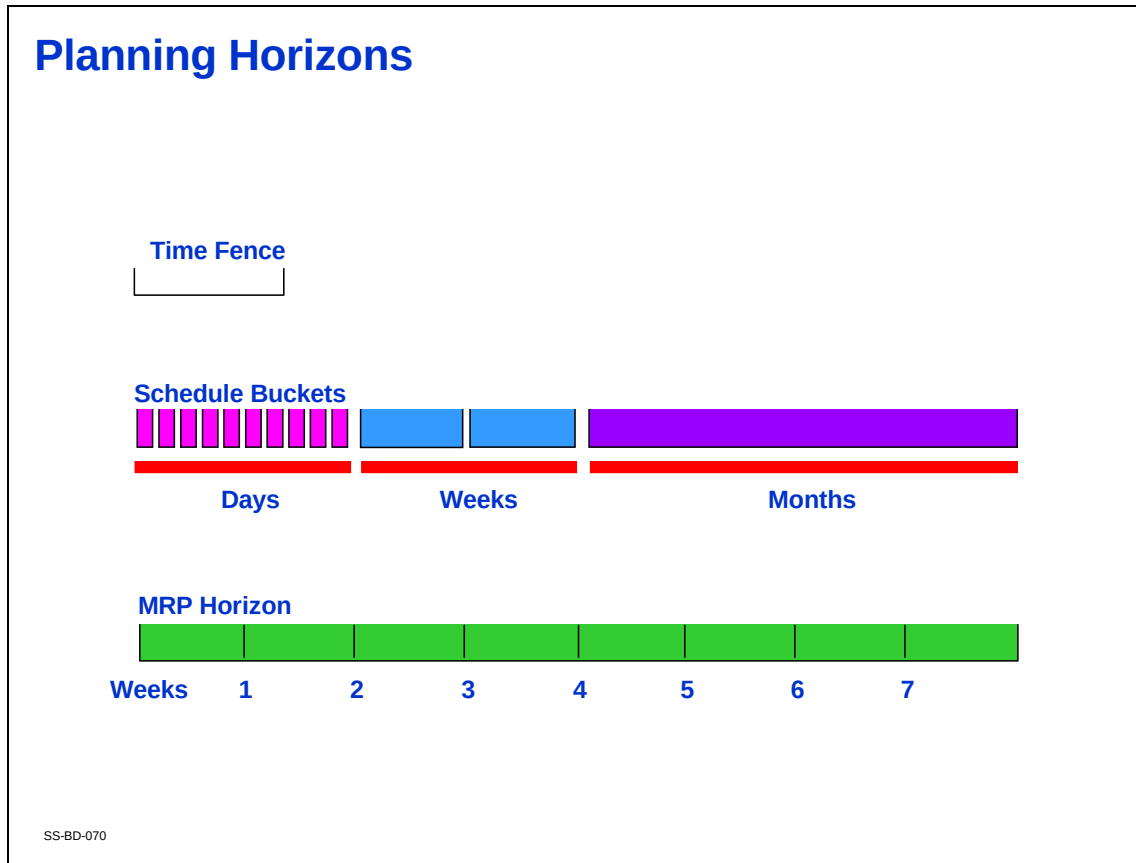
- Scheduled order references a price list

Functionality in MFG/PRO

- The price list is maintained separately:
 - Allows other departments to maintain prices, without having to access the scheduled order line
- Each item needs to be input on the price list with its relevant price

Setup Implications

- Price lists need to be set up in Price List Maintenance 1.10.2.1:
 - Amount type must be set to P (Price) to be used with supplier schedules
- Scheduled Order Maintenance 5.5.1.13 needs to be set up to reflect the price list
- Supplier Maintenance 2.3.1 can be set up to reflect a price list for a particular supplier



Planning Horizon

Definition

A period of time, in calendar days, over which MRP is to plan. MRP only processes material requirements within this horizon.

Why Consider?

Determines how MRP plans or replans orders which are to be included in the scheduled release.

- Only plans requirements within its planning horizon

Functionality in MFG/PRO

Planning horizon parameters are used by the system to generate the schedule.

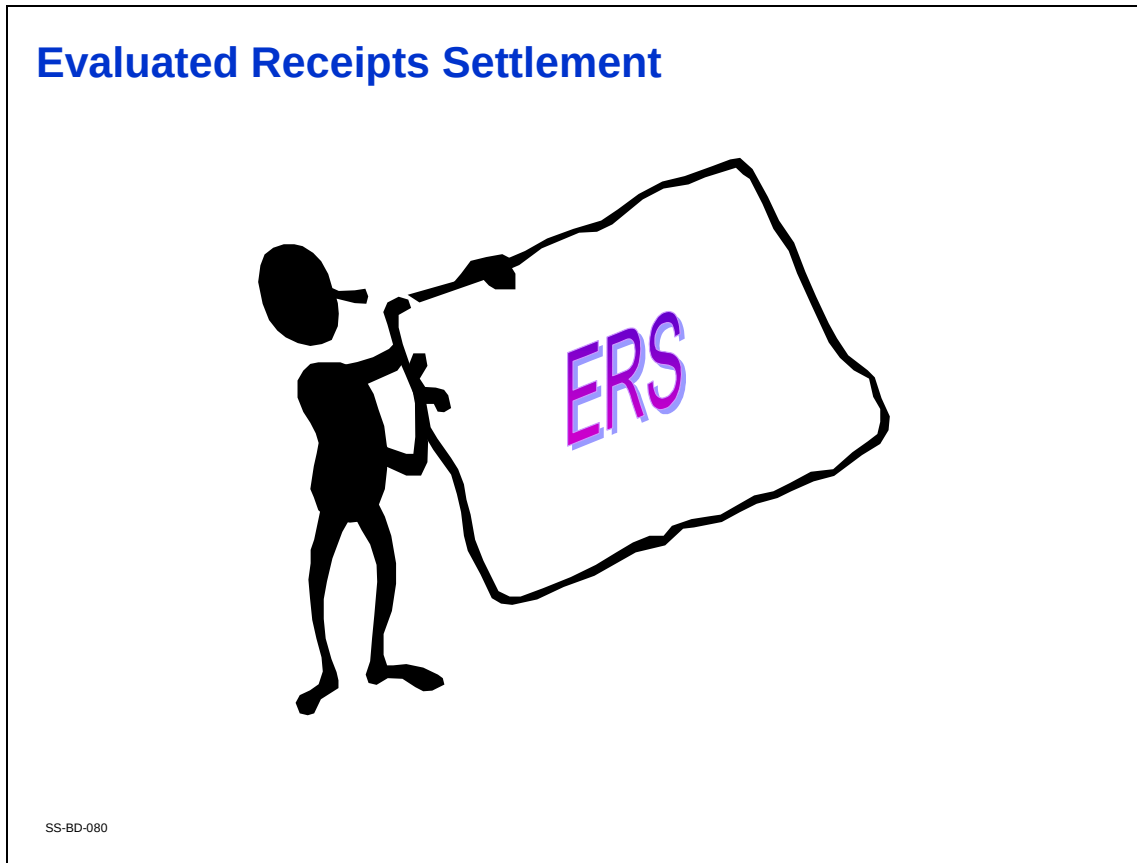
- The schedule is seen by your supplier

Setup Implications

- Scheduled Order Maintenance 5.5.1.13 needs to be set up to reflect the planning parameters for the scheduled order



See in this training guide: *Planning Horizons – Firm Days* on page 116



Evaluated Receipts Settlement (ERS)

Definition

ERS enables you to record a pending payment to a supplier without a supplier invoice. Liabilities to the supplier are recorded automatically, based on quantities received at the unit price established by you and the supplier in scheduled order agreements.

Why Consider?

ERS offers the following benefits:

- Reduced clerical workload and costs

- Fewer lost and duplicate invoices
- Fewer discrepancies between invoices and receiving data
- Earlier availability to customer of actual cost data
- Reduced need for customer to accrue unaudited liabilities
- Reduced forms, mailing, and data transmission cost to supplier

Functionality in MFG/PRO

ERS processing does not take place until the shipper is received.

Setup Implications

- Run ERS Conversion
 - Creates records for every site and supplier in the current database
- Set ERS fields in Accounts Payable Control File 28.24
 - ERS Packing Slip Error
 - Update GL Average Cost
 - ERS Voucher Date Option
- ERS Maintenance 28.10.1
 - Turns ERS processing on for supplier, site, and/or item
- Set ERS fields in Purchasing Control File 5.24
 - ERS Processing
 - ERS Options
- Scheduled Order Maintenance 5.5.1.13
 - Set ERS options at order level and at line item level



See in this training guide: *ERS Options in Order Header Frame* on page 82 and *ERS Options in Order Line Item Frame* on page 90

Review

- ♦ Processes and Procedures
- ♦ Reporting Requirements
- ♦ Customer Expectations
- ♦ Product Configuration

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Review



Course Overview

- ✓ Introduction to Supplier Schedules
- ✓ Business Considerations
 - ◆ Set up Supplier Schedules
 - ◆ Process Supplier Schedules
 - ◆ Process Supplier Schedules

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Course Overview

CHAPTER 3

Set Up Supplier Schedules





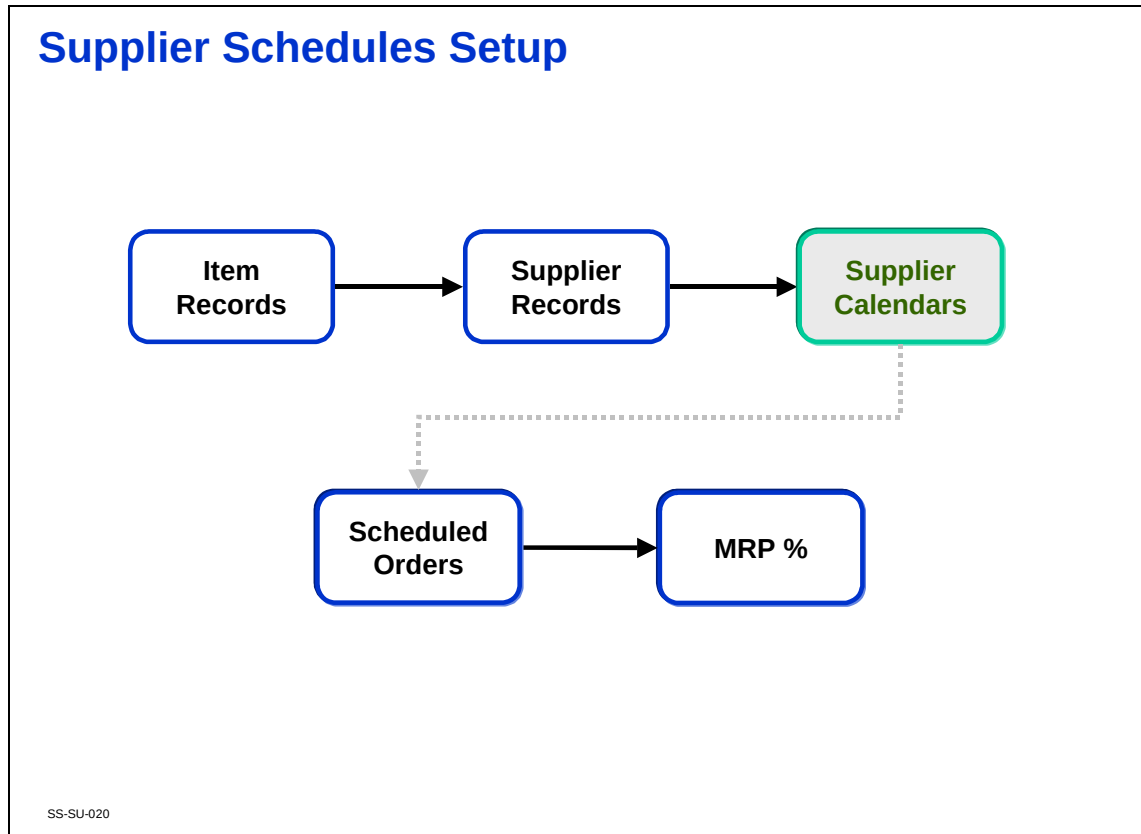
Set up Supplier Schedules

In this section you learn how to:

- ✓ Identify some key business considerations before setting up Supplier Schedules in MFG/PRO
- ✓ **Set Up Supplier Schedules in MFG/PRO**
 - ♦ Process Supplier Schedules in MFG/PRO
 - ♦ Process Supplier Schedules Receipts in MFG/PRO

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Set up Supplier Schedules



Supplier Schedules Setup

This illustration is a suggested setup sequence of master files for supplier schedules which is based on information that flows from one master file to another and prerequisites that need to be accomplished before setting up a file. Reading the illustration:



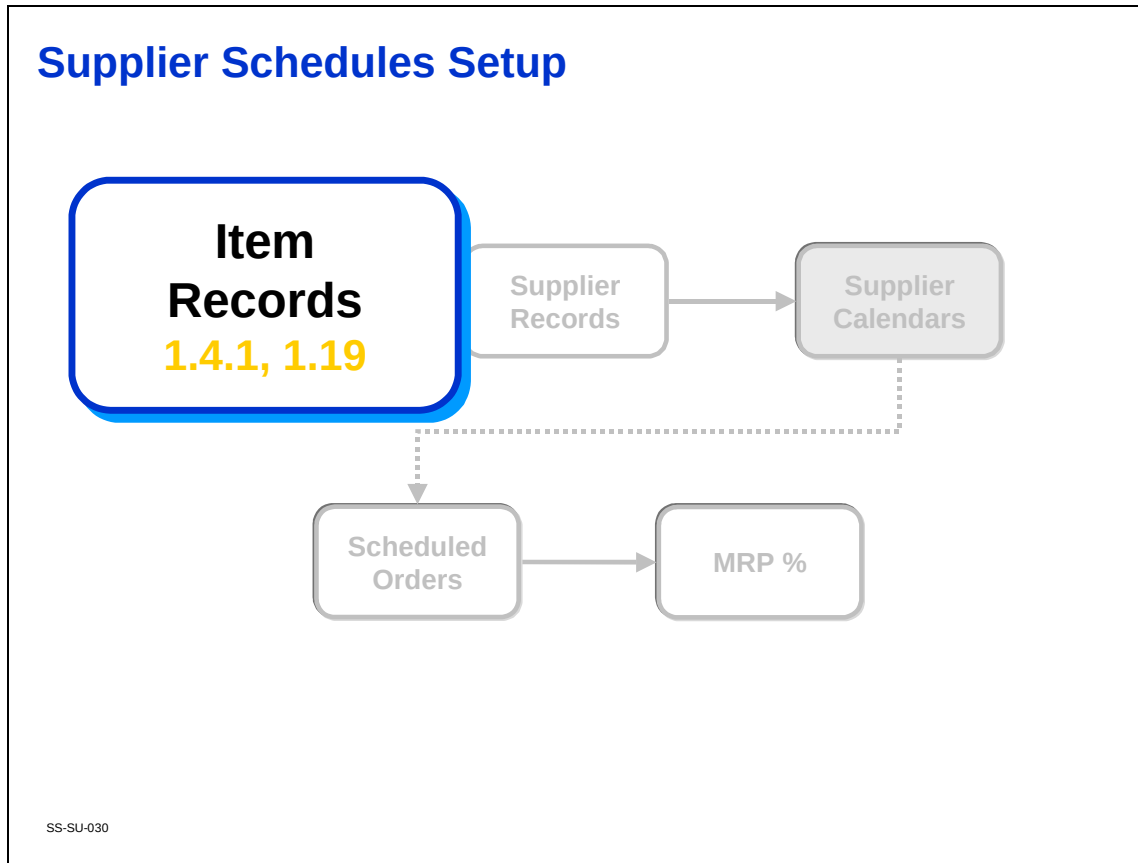
Boxes with solid lines are required for set up and are covered in this course.



Shaded boxes reflect optional steps, but are covered in this course.



Boxes with dotted lines are required, but are covered at length in another course.



Item Records

Before creating a scheduled order, item records must exist for all items and products you are purchasing. The Item Master file contains records for all items, regardless of site. Item records hold the default information about items.

- MRP uses the item information to create planned purchase orders for scheduled items

To add item records, use one of the following:

- Item Master Maintenance 1.4.1
- Item Data Maintenance 1.4.3



Discussed in the following Training Guide: Initial MFG/PRO Setup

Supplier Item Records

If your supplier uses an item number different from your internal item number, you can set up a cross-reference between the two item numbers. You can also reference the original manufacturer's number.

To add a cross-reference between a supplier item number and your internal item number, use:

- Supplier Item Maintenance 1.19

1.4.1 – Item Master Maintenance

Item Master Maintenance			
User Menu Edit Queue Options Help			
Item Number: 10-10000 UM: EA		Description: OASIS(TM) COOLING SY: HOME/INDUST MODEL	
Item Data			
Prod Line: 1000	Item Type: CONFIG	Drawing: 10-10000	
Added: 05/29/92	Status: AC	Rev: AB	
Design Group: DesGrp1	Group: DISCRETE	Drawing Loc:	Size:
Promo Group:	Price Break Cat:		
Item Inventory Data			
ABC Class:		Avg Int:	90
Lot/Serial Control:		Cyc Cnt Int:	120
Site:	10000	Shelf Life:	
Location:	200	Allocate Single Lot:	no
Location Type:		Key Item:	no
Auto Lot Numbers:	no	PO Rcpt Status:	
Lot Group:		WO Rcpt Status:	
Article Number:		Active:	no
		Active:	no
F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste			

SS-SU-040

Item Master Maintenance

Menu Number 1.4.1

Use Item Master Maintenance to add an item number. There are four categories of item information (data):

- General
- Inventory
- Planning
- Cost

Exercises



SS-SU-050

Important The data used in these exercises may not be the same as the data shown in the screen captures in this lesson. In an exercise, if a field is not listed, you can accept the default value or leave it blank.

Exercise: Item Record

Description: You are going to create a purchase part (item) number.

- 1 To create the purchased item, enter the following:

Field	Data
Item Number	bx-0001
Description	Carton, lg

Use Item Master Maintenance, 1.4.1

- 2 Press Go to advance to the Item Data frame. Enter the following:

Field	Data
Prod Line	1000
Promo Group	PG1
Item Type	COMP

- 3 Press Go to advance to the Item Inventory Data frame. Enter the following:

Field	Data
Location	100

Record the default site: _____

- 4 Advance to the Item Planning Data frame.

Field	Data
Pur/Mfg	P
Pur LT	1

Note Be sure the Plan Orders field is set to Yes.

- 5 Press Go to advance to the Item Price Data frame. Enter the following:

Field	Data
Price	.25

Next, you need to set up a price list for this item.

- 6 To make it easy to remember, make the price list code the same as the supplier code (5011000). Use today as the starting date and P for the Amount Type.

Use Price List Maintenance, 1.10.2.1

- 7 The price is .15.

1.19 – Supplier Item Maintenance

Supplier Item Maintenance (1-Supp Item)

User Menu Edit Navigate Config Options Window Help

Browse

Description Specification Freight User Fields

1-Supp Item

Item Number: 10-10000 OASIS(TM) COOLING SYSTEM
Supplier: 5001000 General Supply Corporation
Supplier Item: 88-888-B Reference only

Description

UM: EA
Supplier Lead Time: 0
☐ Use SO Reduction Price
Currency: USD
Quote Price: 0.00 Used if no price list entered on scheduled order
Quote Date: 10/13/98
Quote Qty: 0.0
Price List:

F1=Help F2=Go F9=Prev F10=Next F12=Save ESC=End.

SS-SU-060

Supplier Item Maintenance

Menu Number 1.19

Use Supplier Item Maintenance to set up cross-references between your internal item numbers and your supplier's item numbers. Also keeps track of the quoted price and lead times.

- Both item numbers print on all communications to the supplier
 - Be aware that on purchase orders the item number can only be 18 characters long
- When you set up a supplier item number, you can enter either item number (your internal item number or the supplier item number) on an order
 - If you enter the supplier item number, the system automatically substitutes your internal item number

1.19 – Supplier Item Maintenance: Specification Frame

Supplier Item Maintenance (1-Supp Item)

User Menu Edit Navigate Config Options Window Help

Browse Description **Specification** Freight User Fields 1-Supp Item

Item Number: 10-10000 OASIS(TM) COOLING SYSTEM
 Supplier: 5001000 General Supply Corporation
 Supplier Item: 88-888-B

Specification

Manufacturer: DOW
 Manufacturer Item: GE-90000-21
 Comment:

Used for reference only

F1=Help F2=Go F9=Prev F10=Next F12=Save ESC=End.

SS-SU-070

Specification Frame

Use this frame to reference the original manufacturer's item number. If you do this, then when the supplier's item number is entered on a purchase order, the original manufacturer and the manufacturer's item number are also listed.

- Ensures the supplier does not substitute an item produced by a different manufacturer

Exercises



Important The data used in these exercises may not be the same as the data shown in the screen captures in this lesson. In an exercise, if a field is not listed, you can accept the default value or leave it blank.

Exercise: Supplier Item

Description: Your supplier, Dixon Corporation, uses their own item number, so you need to set up a cross reference between your internal item number and your supplier's item number. You are also going to create a manufacturer's reference.

- 1 To create the cross-reference, enter the following:

Field	Data
Item Number	bx-0001
Supplier	5011000
Supplier Item	BOX100

Use Supplier Item Maintenance, 1.19

- 2 Advance to the Specification frame. You are now going to create a reference to the original manufacturer and their item number:

Field	Data
Manufacturer	Boxer
Manufacturer Item	W02-9867



Supplier Records

Before you can create a supplier schedule, you must have a supplier record for each of your suppliers. This record contains default information about the supplier used by the system.

This information is used in:

- Purchase Orders
- Accounts Payable

Supplier Schedules Setup

Supplier Records



SS-SU-100

Supplier Records

Supplier records contain static and control information.

- Static information is used for reporting purposes
 - Address
- Control information determines how supplier orders and accounts are processed:
 - Accounts payable
 - Currency

2.3.1 – Supplier Maintenance: Supplier Address Frame

Supplier Maintenance

User Menu Edit Queue Options Help

Supplier Address

Supplier: 5001000 Temporary: no
 Name: METAL SUPPLY COMPANY
 Address: 720 EAST COLLEGE AVENUE
 Address: BUILDING B-2
 Address:
 City: LOS ANGELES State: CA Post: 90293 Format: 0
 Country: United States of America USA County:
 Attention: MR. RICHARD AVERY [2]: MR. RALPH HUTTON
 Telephone: 213-923-0392 Ext: [2]: Ext:
 Fax/Telex: 213-923-0022 [2]: Added: 06/14/87

Supplier Data

Sort Name: METAL SUPPLY COMPANY
 Type:
 Pur Acct: 5100
 AP Account: 2100
 Ship Via: CONSOLIDATED
 Remarks: LIMITED SHIPPING HOURS (SEE COMM

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-SU-110

Supplier Maintenance

Menu Number 2.3.1

Use Supplier Maintenance to set up your supplier information.

Supplier Address Frame

The supplier address frame contains the supplier's address and contact information.

2.3.1 – Supplier Maintenance: Supplier Data Frames

Supplier Maintenance

User Menu Edit Queue Options Help

Supplier Address

Supplier: 5001000 Temporary: no
 Name: METAL SUPPLY COMPANY
 Address: 720 EAST COLLEGE AVENUE
 Address: BUILDING B-2
 Address:
 City: LOS ANGELES State: CA Post: 90293 Format: 0
 Country: United States of America USA County:
 Attention: MR. RICHARD AVERY [2]: MR. RALPH HUTTON
 Telephone: 213-923-0392 Ext: [2]: Ext:
 Fax/Telex: 213-923-0022 [2]: Added: 06/14/87

Supplier Data

Sort Name: METAL SUPPLY COMPANY
 Type:
 Pur Acct: 5100
 AP Account: 2100
 Ship Via: CONSOLIDATED
 Remarks: LIMITED SHIPPING HOURS (SEE COMM

Supplier Data

Bank: AA
 Currency: USD
 Purchase Contact: HOLLY JONES
 AP Contact: FRANK MITCHELL
 Promotion Group:
 Check Form: 1
 Language: US
 Misc Creditor: no

F1=Help F2=Go ESC=End Ctrl-X=

SS-SU-120

Supplier Data Frame

There are two supplier data frame. In the first frame you enter GL account and shipping data. In the second you enter banking, currency, language, and additional contact information.

2.3.1 – Supplier Maintenance: Supplier Pricing Data Frame

Supplier Maintenance

User Menu Edit Queue Options Help

Supplier Address

Supplier: 5001000 Temporary: no
 Name: General Supply Corporation
 Address: 720 East College Avenue
 Address: Building B-2
 Address:
 City: Los Angeles State: CA Post: 90293 Format: 0
 Country: United States USA County: 001
 Attention: Mr. Richard Avery [2]: Mr. Ralph Hutton
 Telephone: 213-923-0392 Ext: [2]: Ext:
 Fax/Telex: 213-923-0022 [2]: Added: 06/14/87

Supplier Pricing Data

Buyer: KWU
 Price Tbl:
 Disc Tbl:
 Fixed Price: yes

Create in
Price List Maintenance
1.10.2.1

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-SU-130

Supplier Pricing Data Frame

In this frame you enter the pricing information for this supplier.

- The discount table you enter here, becomes the default for the supplier on the scheduled order
 - Scheduled orders can only use discount tables set up as a type P (Price) price list

2.3.1 – Supplier Maintenance: Supplier Terms Data Frame

Supplier Maintenance

User Menu Edit Queue Options Help

Supplier Address

Supplier: 5001000 Temporary: no
 Name: General Supply Corporation
 Address: 720 East College Avenue
 Address: Building B-2
 Address:
 City: Los Angeles State: CA Post: 90293 Format: 0
 Country: United States USA County: 001
 Attention: Mr. Richard Avery [2]: Mr. Ralph Hutton
 Telephone: 213-923-0392 Ext: [2]: Ext:
 Fax/Telex: 213-923-0022 [2]: Added: 06/14/87

Supplier Terms Data

Cr Terms: 2/10-30 Taxable: no Tax ID: TID Notice: ☐
 Disc %: 0.00% Prepayment Balance: 1,500.00
 CoC Number: Debtor Number:
 Partial OK: yes Tax Report: yes
 Payment Hold: no Pay Specification: no
 DB Number:

Create in Credit
Terms Maintenance
2.19.1

F1=Help F2=Go ESC=End Ctrl-X=

SS-SU-140

Supplier Terms Data Frame

Use the Supplier Terms Data frame to enter information defining the type of credit this supplier has with your company.

Note The credit terms code entered here becomes the default for this supplier on all scheduled orders.



Discussed in the following Training Guide: Accounts Payable

2.3.1 – Supplier Maintenance: Bank Accounts Frame

The screenshot shows the 'Supplier Maintenance' window. The 'Bank Accounts' frame is highlighted with a pink box. It contains a table with columns: Bank, Acct Type, EDI, Branch, Bank Account, Begin Date, and End Date. The first row shows 'BOA' for Bank, 'All' for Acct Type, and empty fields for EDI, Branch, Bank Account, Begin Date, and End Date.

Bank	Acct Type	EDI	Branch	Bank Account	Begin Date	End Date
BOA	All				/ /	/ /

Adding new record.

F1=Help F2=Go ESC=End F5=Delete Ctrl-X/C/V=Cut-Copy-Paste

SS-SU-150

Bank Accounts Frame

You use this frame to set up the banks used by your supplier to receive payments from your company.

- Used with EFT (electronic funds transfer) and EDI

Field Definitions

Bank

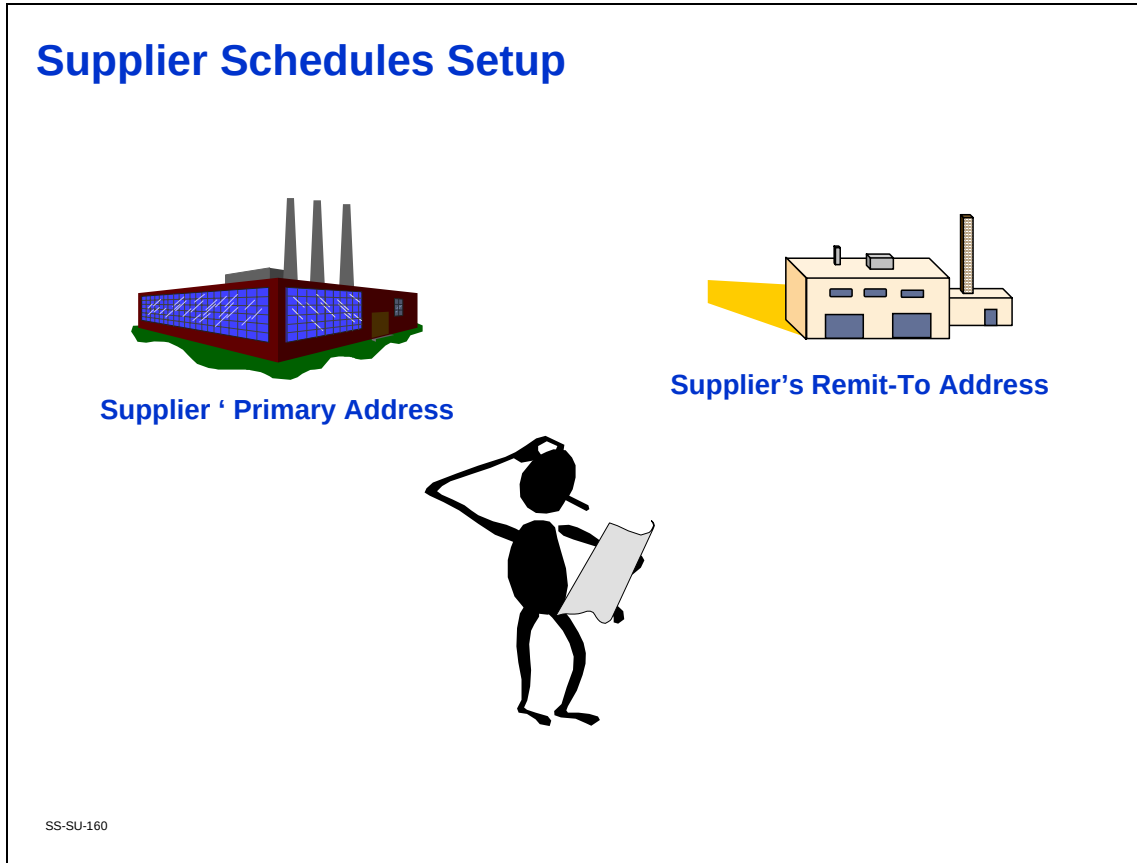
Each supplier can have an unlimited number of banks:

- Each bank can have multiple accounts
- The first bank (alphanumeric sequence) acts as the default supplier bank for each new voucher

Acct Type

Identifies the type of bank account for processing payments for this supplier.

- It is recommended you set up at least one bank as a type 1 (All)



Supplier's Remit-to Address

You would create a supplier remit-to address if the supplier wants to receive payments at an address different from the primary supplier address (created in Supplier Maintenance 2.3.1).

- There can be only one remit-to address for a supplier

2.3.13 –Remit-To Supplier Maintenance

Supplier Address

Supplier: 002
 Name: Toronto Computer Services
 Address: 75 Queens Road
 Address:
 City: Toronto State: ONT Post: Format: 0
 Country: Canada CAN County:
 Attention: Telephone: Ext:

Supplier Remit-To

Code: 002A
 Name: Toronto Computer Services
 Address: 101 Simms Road
 Address:
 Address:
 City: Toronto State: ONT Post: Format: 0
 Country: CAN County:
 Attention: K.C. Pamaty
 Telephone: Ext:

F1=Help F2=Go ESC=End F5=Delete Ctrl-X/C/V=Cut-Copy-Paste

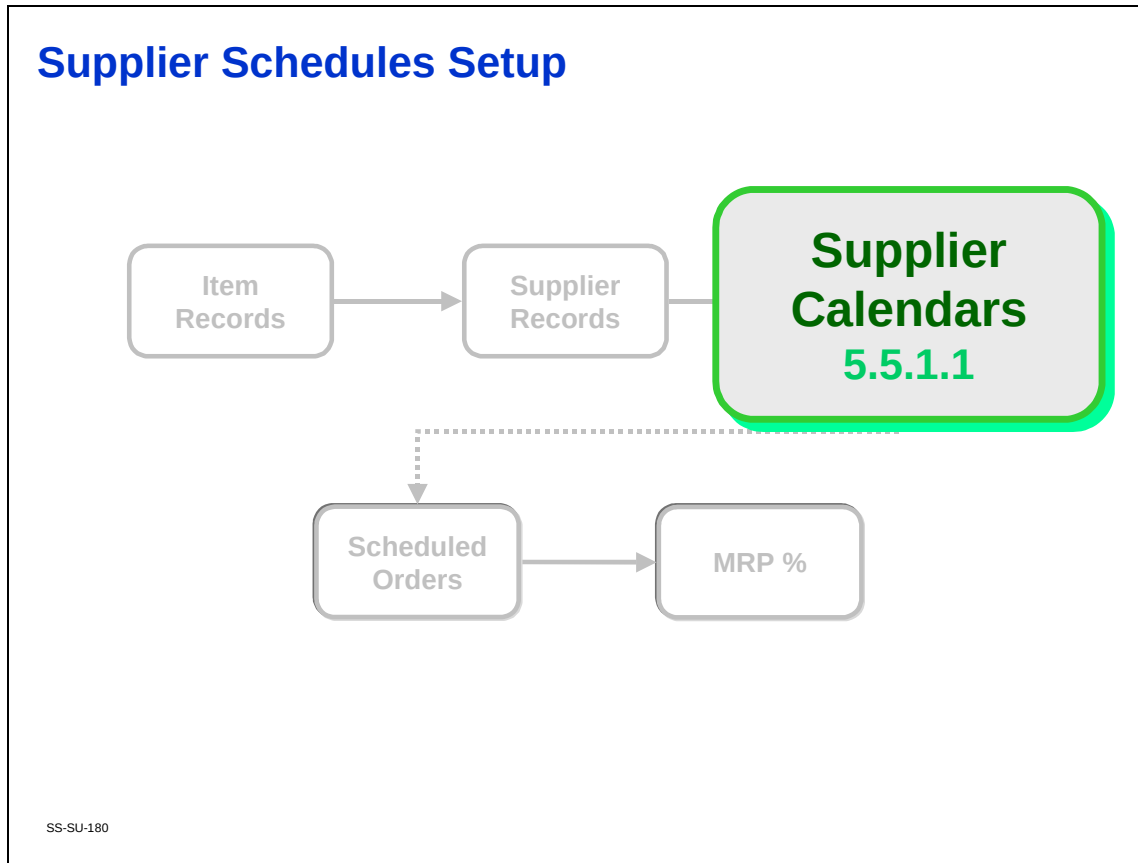
SS-SU-170

Remit-To Supplier Maintenance

Menu Number 2.3.13

Use Remit-To Supplier Address to set up a remit-to address for a supplier.

- If a remit-to address exists for a supplier, then all payments go to this address
- The remit-to address cannot be overridden manually



Supplier Calendars

MFG/PRO allows you to set up calendars matching your supplier's work schedule.

- Need to set up a supplier calendar if your supplier works different days from you
- You maintain a supplier calendar for those suppliers from whom you pick up shipments
 - Schedule Update from MRP 5.5.3.1 uses the supplier calendar to calculate shipment dates, back-scheduling requirements if the initial due date is not a work day for the supplier
- If there is no supplier calendar, the system uses your calendar

5.5.1.1 – Supplier Calendar Maintenance

The screenshot shows the 'Supplier Calendar Maintenance' window. The title bar reads 'Supplier Calendar Maintenance'. The menu bar includes 'User Menu', 'Edit', 'Queue', 'Options', and 'Help'. The main area is titled 'Supplier Calendar' and displays the following information:

Supplier: 5003000 West Coast Electronics

Work Day	Hours
Sunday: no	0.00
Monday: yes	8.00
Tuesday: yes	8.00
Wednesday: yes	8.00
Thursday: yes	8.00
Friday: yes	8.00
Saturday: no	0.00

Below the table, there is a section for 'Operating Day Hour Exceptions' with the following details:

Reference: OT
Start: 02/03/96
End: 02/28/96 Daily Hours: 16.00

At the bottom left, there is a status bar with the text 'Adding new record.' and a keyboard shortcut 'F1=Help F2=Go ESC=End F9'.

Overlaid on the bottom right is a 'Non-Operating Days' dialog box. It has a 'Date' field with a calendar icon and a 'Description' field.

SS-SU-190

Supplier Calendar Maintenance

Menu Number 5.5.1.1

Use Supplier Calendar Maintenance to set up a supplier calendar.

- Useful when a supplier has a work schedule different from your company's work schedule
- Specify your supplier's work days and their hours of operation

Note MRP calculations are not affected by the supplier hours. They are for your information.

Operating Day Hour Exceptions Frame

- Can specify exceptions to the supplier's calendar
- Reference only

Non-Operating Days Frame

- Use to define exceptions to the normal calendar:
 - Holidays
 - Shutdowns

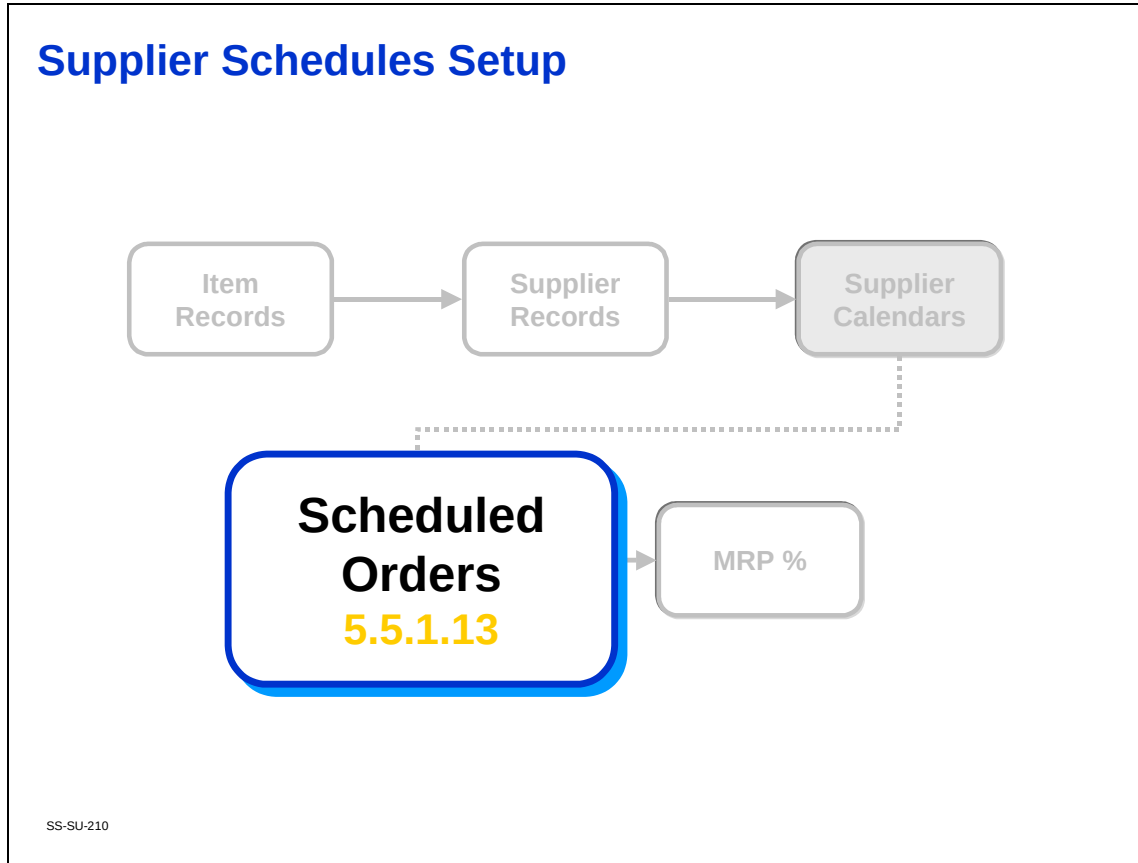


Important The data used in these exercises may not be the same as the data shown in the screen captures in this lesson. In an exercise, if a field is not listed, you can accept the default value or leave it blank.

Exercise: Supplier Calendar

Description: The Dixon Corporation has a work schedule different from your work location. Therefore, you need to set up a supplier calendar.

- 1 Supplier 5011000 operates two shifts Monday through Friday for a total of 16 hours per day. They also operate on Saturday for 4 hours.
Use Supplier Calendar, 5.5.1.1
- 2 They have a shutdown from July 1 through July 14.



Scheduled Orders

A scheduled order is like a purchase order in that it communicates demand to a supplier and receipts are processed against it. The difference is each line item has multiple due dates and order quantities.

- A scheduled order does not have delivery dates or times



Discussed in the following Training Guide: Purchase Order Management

5.5.1.13 – Scheduled Order Maintenance: Order Data Frame

Scheduled Order Maintenance

User Menu Edit Queue Options Help

Purchase Order: P0010000 Supplier: 5011000 DIXON CORPORATION

Order Data

AP Acct: 2100

Taxable: no

Credit Terms: 30/60/90

Bill-To Address: 10000000

Ship-To Address: 10000000

Print Schedules: yes

EDI Schedules: no

Fax Schedules: no

A/P Site:

Ship Via: RODEWAY

FOB:

Buyer: JJ

Contact: WESLEY THOMAS

Contract:

Currency: USD

Comments: no

Imp/Exp: no

Defaults from Trading Partner Parameters Maintenance 35.1

Adding new record

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-SU-220

Scheduled Order Maintenance

Menu Number 5.5.1.13

Use Scheduled Order Maintenance to set up the parameters of the scheduled order.

Header Frame

You begin by assigning an order number and identifying the supplier.

Field Definitions

Purchase Order

Each scheduled order number must be unique. When assigning a new scheduled order number, you can:

- Leave the field blank and have the system assign an order number
- Enter an order number of your own choosing

Supplier

The supplier providing the items being ordered.

Order Data Frame

Use the Order Data frame to enter shipping and credit information. This information applies to the entire order. Much of this information defaults from Supplier Maintenance 2.3.1 and Trading Partner Parameters Maintenance 35.1.

Field Definitions

AP Acct

Specifies the GL accounts (GL account, sub-account, cost center) used to track accounts payable amounts for this scheduled order.

- This account is used when processing vouchers using ERS
- Defaults from the System/Account Control File 36.1

Taxable

Determines the tax status of the items on this scheduled order.

- If Yes, the items are subject to tax
 - Under Global Tax Management, taxes are based on on the transaction tax environment, tax usage, and tax class
- If No, the items are not subject to tax

Credit Terms

Specifies the credit terms that apply to this order.

Bill-To Address

The address code where the supplier is to send the bill for the items.

Ship-To Address

The address code where the supplier is to deliver the items.

Print Schedules

- If Yes, you can use Schedule Print 5.5.3.8 to print schedules for this order
 - Schedule Print only prints schedules if this is set to Yes

EDI Schedules

- If Yes, indicates the Supplier Schedule Export 35.18 is to export the schedules for this order

Fax Schedules

- Set to Yes, if you wish to fax schedules using Schedule Print in Fax Format 5.5.3.9
- Set to No, if you are not sending the schedules for this order via fax

A/P Site

The site issuing the scheduled order.

- This site has its account balances updated upon receipt of the goods
 - Might not be the site the items are being shipped to

Ship Via

Indicates the carrier normally used between the supplier and you.

- Can validate using generalized codes set up in Generalized Codes Maintenance 36.2.13

FOB

The point at which the ownership of the goods transfers from the supplier to you.

- For example, FOB Destination means that ownership transfers at the point of delivery

- Can validate using generalized codes set up in Generalized Codes Maintenance 36.2.13

Buyer

Identifies the buyer responsible for this scheduled order.

- Schedule updates and some reports can be specified by buyer

Contact

Two fields. The first is the primary contact at the supplier. The second is an alternate contact.

Currency

The currency used on this scheduled order.

Comments

Set to Yes if you wish to add order comments for the entire order.

- Order comments print at the top of the order, before order line items
- If Yes, the Transaction Comments frame displays for you to enter comments specific to this order

Imp/Exp

Determines if import/export data is maintained for the order.

- If Yes, you are able to enter or maintain import/export data for this order
- If No, you are not able to enter or maintain import/export data for this order

Note If European Intrastat statistics are required for this order, denoting the movement of goods within the EU, this field must be set to Yes. The Intrastat Control File 2.22.24 and valid inputs for Despatch, Country of origin on the bill-to/sold-to and ship-to etc., must also be set up.

5.5.1.13 – Scheduled Order Maintenance: Tax Data Frame

Scheduled Order Maintenance

User Menu Edit Queue Options Help

Purchase Order: P0010000 Supplier: 5011000 DIXON CORPORATION

Order Data

AP Acct: 2100
 Taxable: no
 Credit Terms: 30/60/90
 Ship Via: RODEWAY
 Bill-To Address: 11
 Ship-To Address: 11
 Print Schedules: yes
 EDI Schedules: no
 Fax Schedules: no
 A/P Site:
 Tax Usage:
 Tax Environment: USA/USA
 FOB: THOMAS
 Contract:
 Currency: USD
 Comments: no
 Imp/Exp: no

WARNING: No tax environment found. Using default.

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-SU-230

Tax Data Frame

Use this frame to enter the tax information for the order.

Tax Usage

The tax usage code that applies to this order.

Tax Environment

The tax environment applying to the order.

5.5.1.13 – Scheduled Order Maintenance: ERS Options in Order Header

The screenshot shows the 'Scheduled Order Maintenance' window. At the top, the title bar reads 'Scheduled Order Maintenance'. Below it is a menu bar with 'User Menu', 'Edit', 'Queue', 'Options', and 'Help'. A toolbar contains several icons. The main header area displays 'Purchase Order: bp1001', 'Supplier: 5001000', and 'METAL SUPPLY COMPANY'. Below this is the 'Order Data' section, which contains the following fields:

AP Acct: 2100	Ship Via: CONSOLIDATED
Taxable: no	FOB:
Credit Terms: 2/10-30	Buyer: JJ
Bill-To Address: 10000000	ERS Option: 1 POLLY JONES
Ship-To Address: 10000000	ERS Price List Option: 0
Print Schedules: yes	Currency: USD
EDI Schedules: no	Comments: no
Fax Schedules: no	Imp/Exp: no
A/P Site:	

At the bottom of the window, a status bar displays the keyboard shortcuts: 'F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste'.

SS-SU-240

ERS Options in Order Header Frame

If you have ERS processing turned on (ERS Processing set to Yes in Purchase Control File 5.24), the ERS options in the order header frame displays after the tax data frame.

- ERS processing does not take place until the shipper is received

Note If ERS Maintenance 28.10.1 settings affecting an existing scheduled order are changed, you must manually update the scheduled order based on the new settings.

Field Definitions**ERS Option**

Tells the system when to determine the ERS option.

- <blank>
 - Determine the ERS option (specified in ERS Maintenance 28.10.1) at the time the scheduled order line is created
 - Default
- 0
 - Determine the ERS option at ERS processing time
- 1
 - Disallow ERS processing

ERS Price List Option

Determines which date the ERS processor should use to determine effective price lists for the lines on this scheduled order.

- 0
 - Determine the ERS price list option at ERS processing time
- 1
 - Use the receipt date as the effective date when accessing a price list
- 2
 - Use the ship date as the effective date when accessing a price list
- 3
 - Use the order date as the effective date when accessing a price list

5.5.1.13 – Scheduled Order Maintenance: Line Item Frame

Scheduled Order Maintenance

User Menu Edit Queue Options Help

Purchase Order: P0010000 Supplier: 5011000 DIXON CORPORATION

Item:  BOX100

Ship-To Site: Line:

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-SU-250

The next series of frames deal with the scheduled order's line items.

Line Item Frame

The first frame is the Line Item frame. This is where you identify the what is being purchased (ordered) from the supplier and the site where it is to be delivered.

Field Definitions

Item

The item number of the item being ordered.

Ship-To Site

The site receiving the purchased item.

Line

- Sequential number
- Can be system assigned or user assigned
- You can enter more than one scheduled line for the same item
 - Each line must have a unique line number

After completing the Line Item Frame, the system prompts you to copy order details from another purchase order for the same item.

- System prompts you through the copy
- You need the ship-to site and the line number you are copying from

5.5.1.13 – Scheduled Order Maintenance: First Order Line Item Data Frame

Purchase Order: P0010000 Supplier:

Item: bx-0001 Ship-To Site: train Line: 1

Order Line Item Data

Disc Table: (Previously set up in Price List Maintenance 1.10.2.1)

Unit Cost: 0.00

Pur Acct: 5100 0100

Taxable: no

Type:

Update Current Cost: no

Location: 100

UM: EA

UM Conversion: 1.0000

Work Order ID:

Operation: 0

Subcontract Type: (Only accessed if Type set to S)

Adding new record

F1=Help F2=Go ESC=End F5=Delete Ctrl-X/C/V=Cut-Copy-Paste

SS-SU-260

Order Line Item Data Frames

There are two Order Line Item Data frames.

- Make up the detail record for the line item
- You enter order line item data for each line number

Order Line Item Data Frame – First Frame

This frame contains the line item's pricing and inventory information.

Field Definitions

Disc Table

- The price list to use in pricing this item
 - System phases in prices as they become effective
 - If a price list not provided, system checks to see if there is a quote price (from the supplier record), if not uses purchase order cost.

Note Only type P (Price) price list can be used with scheduled orders.

Unit Cost

Displays the price you have agreed to pay the supplier for this item.

- Updated during receipt to reflect the last receipt unit cost

Note Price displays after goods have been received. Can manually input the price.

Pur Acct

The GL accounts (GL account, sub-account, cost center) used to track non-inventory purchases.

- Non-inventory purchases are Type M (Memo)

Taxable

Indicates if this item is taxable.

- If Yes, then the system calculates tax
- If No, then the system considers the line item to be tax-exempt
 - Regardless of taxable status of the order

Note An item can have a different taxable status from other items on the order.

Type

Determines if the items is to be received into inventory and considered by planning. Two options:

- Blank – item is to be received into inventory:
 - Upon receipt, inventory increases, and a GL transaction debits the inventory account
- S – item is for a subcontract operation:
 - The work order number and operation are specified on the scheduled order

- Upon receipt, system updates the work order operation status and a GL transaction debits the WIP (work-in-process) account from the work order
- Does not update inventory

Note Before creating a release of a supplier schedule for subcontract operations you also need to enter the schedule order number and line number into a subcontract routing operation using Routing Maintenance 14.13.1.

Update Current Cost

Indicates if the purchase order is reflected in the current and average costs for the item.

- If Yes, the item current material cost is updated when the purchased item is received
- If No, the item current material cost is not updated when the purchased item is received:
 - For example, there may be times where you have to arrange an emergency supply of an item, even on a schedule, where the price negotiations are not yet finalized, or you are paying a premium at the time of crisis. You may not want the costs updated, since this would give a distorted figure.

Location

The location receiving the item.

UM

The unit of measure (UM) of the line item.

UM Conversion

The alternate UM to the item's UM.

- Can only modify on a new line
- If the line item UM is the same as the Item Master UM, 1.0000 displays
- If the line item UM is not the same as the Item Master UM, the system looks for a UM conversion factor in Unit of Measure Maintenance 1.13 and displays it

Work Order ID

Number of the work order the item is being purchased for.

- Must be completed if the item is for a subcontract operation (Type set to S)

Operation

The operation number associated with the subcontract operation.

Subcontract Type

Identifies the type of operation performed by the subcontractor.

5.5.1.13 – Scheduled Order Maintenance: ERS Options in Order Line Item

The screenshot shows the 'Scheduled Order Maintenance' window. At the top, it displays 'Purchase Order: bp1001', 'Supplier: 5001000', and 'METAL SUPPLY COMPANY'. Below this, it shows 'Item: 02-0005', 'Ship-To Site: train', and 'Line: 1'. The main section is titled 'Order Line Item Data' and contains the following fields:

Disc Table:	Update Current Cost: no
Unit Cost: 0.00	Location: 200
Pur Acct: 5100	UM: EA
Taxable: no	ERS Option: 1
Type:	ERS Price List Option: 0
	Version: 1.0000
	Work Order ID:
	Operation: 0
	Subcontract Type:

At the bottom of the window, a status bar displays the following keyboard shortcuts: F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste.

SS-SU-270

ERS Options in Order Line Item Frame

If you have ERS processing turned on (ERS Processing set to Yes in Purchase Control File 5.24), the ERS options at the order line frame displays after the first Order Line Item Data frame.

- ERS processing does not take place until the shipper is received

Note If ERS Maintenance 28.10.1 settings affecting an existing scheduled order are changed, you must manually update the scheduled order based on the new settings.

Field Definitions

ERS Option

At the line item level, this value is determined by the value in the ERS Option field of the order header. You can change this value to a value less than or equal to the ERS Option value specified in ERS Maintenance 28.10.1.

- If the ERS Option field in the order header is <blank>, the line level field takes its value from the ERS Option field in ERS Maintenance as follows:
 - 1 – no ERS
 - 2 – unconfirmed voucher
 - 3 – confirmed voucher
- If the ERS Option field in the order header is 0, the line level field is also 0, indicating that the ERS option is to be determined at ERS processing time
- If the ERS Option field in the order header is 1, the line level field is also 1, indicating that ERS processing is not allowed

Note The ERS Option value you set for a line will be the ERS Option value that appears for that line the next time you access the scheduled order.

ERS Price List Option

- If the ERS Price List Option field in the order header is 1, 2, or 3, the same value appears in this ERS Price List Option line level field
- If the ERS Price List Option field in the order header is 0, the system looks at the ERS Option field of the order header to determine the value of the ERS Price List Option line level field
 - If the ERS Option field in the order header is <blank>, the line level field takes its value from the ERS Price List Option field in ERS Maintenance
 - If the ERS Option field in the order header is 0, the value in the line level field will also be 0 (ERS Price List Option to be determined at ERS processing time)
 - If the ERS Option field in the order header is 1, the value in the line level field will be 0 (ERS Price List Option to be determined at ERS processing time)

Note The ERS Price List Option value you set for a line will be the ERS Price List Option value that appears for that line the next time you access the scheduled order.

5.5.1.13 – Second Order Line Item Data Frame

Scheduled Order Maintenance

User Menu Edit Queue Options Help

1000 Supplier: 5001000 METAL SUPPLY COMPANY

Item: 44-100

Ship To Site: 10000

Order Line Item Data

Firm Days: 20

Schedule Days: 0

Schedule Weeks: 2

Schedule Months: 0

Fab Auth Days: 10

Raw Auth Days: 20

Transport Days: 0.00

Safety Days: 0.00

Supplier Item: AT-2999

Ship/Dlv Pattern: 01

Max Order Qty: 0.0

Std Pack Qty: 1

Cum Start: 07/09/98

Comments: no

Start Effective: / /

End Effective: / /

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-SU-280

Order Line Item Data – Second Frame

This frame contains information used to record data that impacts the requirements and schedules generated for the line items.

Field Definitions

Firm Days

The number of days inside the firm schedule period.

- Should not exceed the number of specified in the Schedule Days field
- This period starts with the day of a schedule release, normally the day after the Prior Cum Date

- Schedule update firms planned schedule order quantities within the Firm Days horizon and does not attempt to overwrite them with subsequent releases
- Can be a positive value or zero (0)

If a positive value, then that value is used by Schedule Update from MRP 5.5.3.1 to determine the firm days time fence.

- Use a positive value to track cumulative received quantities, or
- If you have an agreement with your supplier that requirements will not change within the firm days time fence

If zero (0), eliminates the schedule update time fence.

- Use when all requirements are released as planned, so that the schedule update replans all dates and quantities
- Schedule Update from MRP will not generate firm requirement data for new supplier schedule releases and does not carry forward any data from previous schedule releases
- Avoids rescheduling problems due to fluctuations in short-term MRP data
- Each schedule release is created straight from MRP data

Although you would normally wish to pass on any demand changes generated from MRP as soon as possible, in practice even the best suppliers find it difficult to respond immediately to dramatic changes. By setting a number of firm days, warning messages will be generated indicating that the schedule should be altered manually. This can be used as a trigger for the expeditor to not only manually update the schedule, but also to contact the supplier to make them aware of the situation.

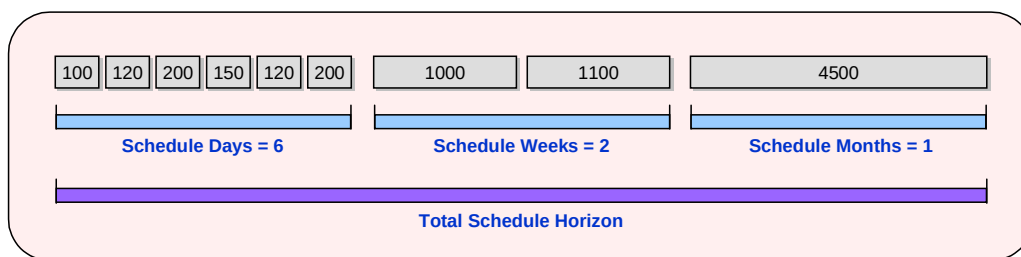
This value does not affect MRP's use of the Time Fence in the item master. Firm Days controls order releases by date and quantity. The item master Time Fence field controls planned orders by date and quantity.

Note You can run Schedule Update from MRP 5.5.3.1 with Update set to No to determine the best value for the Firm Days field.



See in this training guide: *Planning Horizons – Firm Days* on page 116

Schedule Bucketing



SS-SU-290

Schedule Days, Schedule Weeks, Schedule Months

Determines the format used to bucket scheduled requirements. If zero (0), schedule requirements are output as is.

- Requirements are bucketed at the time the schedule release is transmitted
 - Up until then, schedule requirements are maintained in the database as discrete dates and quantities
- When a schedule release is transmitted:
 - Daily requirements appear as discrete quantities on discrete dates, including any intraday requirements and times
 - Weekly requirements are bucketed into weekly quantities with a delivery date of Monday

- Monthly requirements are bucketed into monthly quantities with a delivery date of the first Monday of the month

Fab Auth Days

The number of days you commit to covering the supplier's manufacturing (fabricating) costs.

Raw Auth Days

The number of days you commit to covering the supplier's component (raw material) costs.

Note When you first set up the scheduled order, the authorization fields are usually left at zero (0) until a steady rate of supply and demand exists.

Transport Days

Number of days needed for transport from the supplier's site to your site.

- Used only when the supplier does not ship the materials, but rather, makes them available for you to pick-up
- Schedule Update from MRP 5.5.3.1 uses this value to set shipment dates based on delivery dates (i.e., delivery date – transport days)
 - Checks supplier's calendar, if one exists, to verify that the shipment date is a workday for the supplier
 - If shipment date is not a supplier workday, back-schedules to the next supplier workday
- Reports and inquiries check this field to see if they are to print/display delivery dates to shipment dates
- If value is positive, the system uses shipment dates

Safety Days

Specifies a number of days to add to the lead time.

- Used by schedule update to offset ship dates
- Adds a comfort period to the shipment process

Supplier Item

Supplier's internal item number.

- Appears on the ASNs and invoices

- Must be set up using Supplier Item Maintenance 1.19

Ship/Dlvy Pattern

Defines the routine ship/delivery pattern (e.g., days of week or month when deliveries are required).

- Used by schedule update to determine how to spread out the scheduled order quantities
- MFG/PRO supports all the Odette and AIAG ship delivery patterns standards, recognized by EDI for conversion and transmission

Max Order Qty

Determines the maximum quantity of the item to be shipped.

- Use if a schedule covers a fixed quantity of goods
 - Warnings appear if the quantity is exceeded by cumulative receipts
- Some companies may want to renew a scheduled order after a certain limit has been reached

Std Pack Qty

Multiple in which orders for this item are shipped (e.g., 5, 10, 12).

- Schedule update rounds daily requirements up to this number
- Quantity may be different for different suppliers and schedules
- Often related to the container being used to ship the item

Note If you have an order multiple set up in Item Planning Maintenance 1.4.7, there can be undesirable results in the schedule, usually involving front-end loading. In that case, you should reduce the order multiple to 1.

Cum Start

Date on which cumulative shipment quantities begin to accumulate for this scheduled order line item.

- Defaults to the current date
- Date you and your supplier have agreed upon

Comments

Set to Yes if you wish to make comments or notes about this line item.

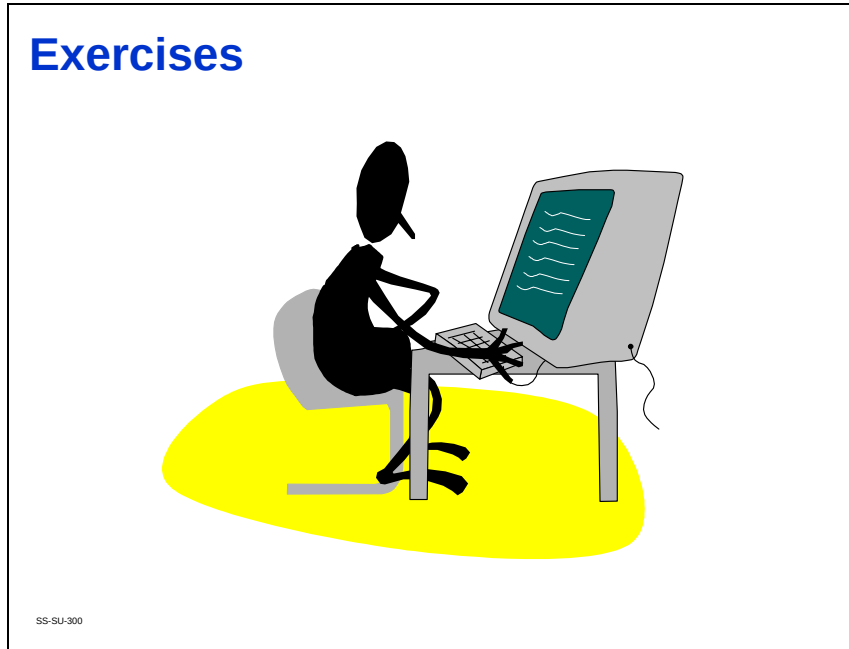
- Comments made here print out immediately after the line item they relate to, before the scheduled lines

Start Effective

The starting effective date of the this order line item.

End Effective

The ending effective date of this order line item.



Important The data used in these exercises may not be the same as the data shown in the screen captures in this lesson. In an exercise, if a field is not listed, you can accept the default value or leave it blank.

Exercise: Creating Demand

Description: You are going to create a forecast for item number bx-0001. Then you are going to run MRP to create the demand (i.e., create the work orders).

- 1 Starting with next week, enter a 12-week forecast, using 100 of item bx-0001 per week.
Use Forecast Maintenance, 22.1
- 2 Run selective MRP for your item number and site, accepting the defaults.
Send the output to your terminal.
Use Selective Materials Plan, 23.3
- 3 Review the MRP results. You should have some planned work orders (designated WO) on the supply side.
Use MRP Summary Inquiry 23.13 or MRP Detail Inquiry 23.16

Exercise: Creating Scheduled Order

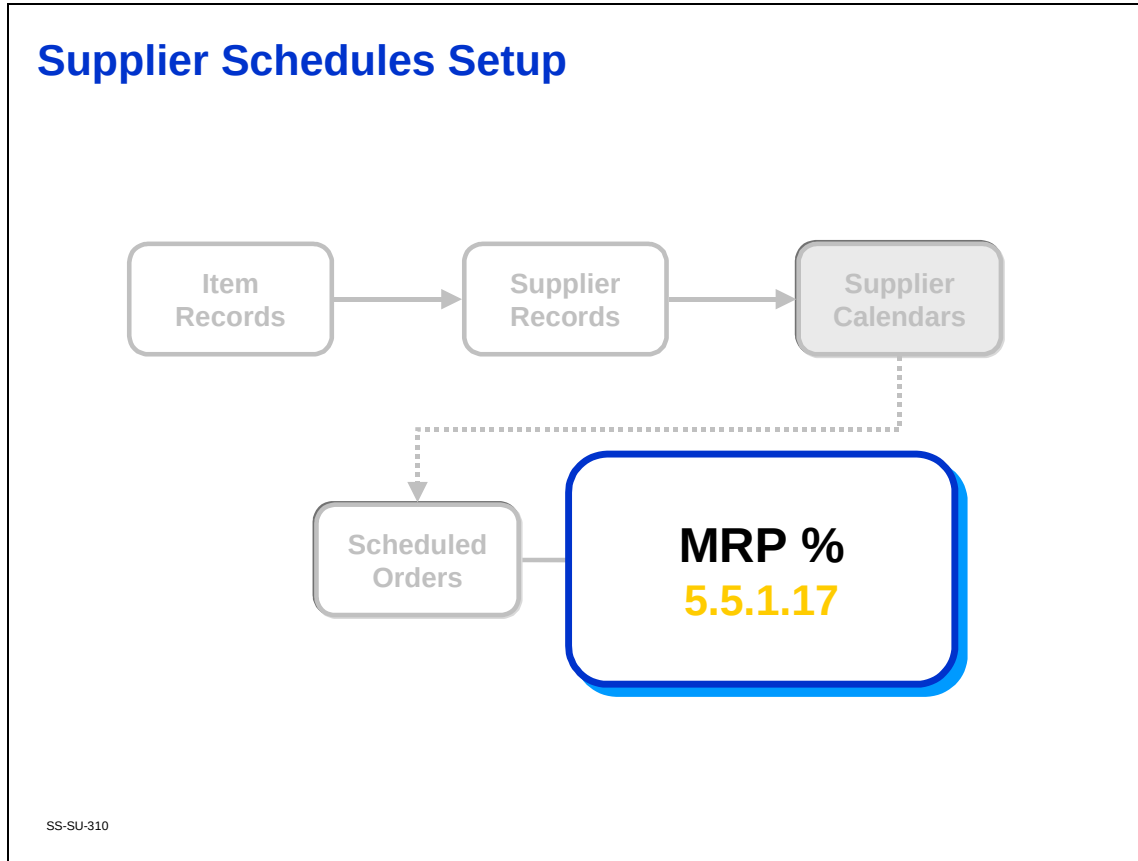
Description: You are now ready to create the scheduled order for supplier 5011000.

- 1 You are going to set up the order data for this supplier schedule. Let the system assign the purchase order number.
Record the purchase order number: _____
Use Scheduled Order Maintenance, 5.5.1.13
- 2 Advance to the Order Data frame. Accept all the default information in the Order Data frame. Next you are going to set up the order detail.
- 3 In the Item/Site frame, enter your item number and receiving site. Let the system assign the line number.
When the system prompts you to copy data from another order line for this item, choose No.
- 4 In the first Order Line Item Data frame enter in the Disc Table field the price list code for your supplier. Accept the remaining default information.
- 5 In the second Order Line Item data frame, enter the following:

Field	Data
Schedule Days	14
Schedule Weeks	6
Schedule Months	6
Fab Auth Days	30
Raw Auth Days	60
Transport Days	2
Ship/Dlvy Pattern	10 (any day Monday through Friday)

Note the defaults of the Supplier Item and Cum Start fields.

- 6 Print the scheduled order details.
Use Scheduled Order Report 5.5.1.15
- 7 Print the scheduled order. Set the Include Scheduled Orders flag to Yes.
Use Purchase Order Print 5.10



MRP Percentage

You need to determine how you want your scheduled requirements to be allocated across suppliers in a multi-sourcing environment.

- Even if you single source, you still need to determine the allocation
 - You would allocate 100% to the supplier
- Schedule Update from MRP 5.5.3.1 uses these percentages to allocate MRP planned orders for the item among suppliers

5.5.1.17 – Scheduled Order MRP % Maintenance

Scheduled Order MRP % Maint

User Menu Edit Queue Options Help

Ship-To Site: 10000 Item Number: 22-110 Effective: 01/01/94

Purchase Order	Percent
po1016	79

To phase in new percentages, enter same Ship-To Site and Item Number with a different Effective date

F1=Help F2=Go ESC=End F5=Delete Ctrl-X/C/V=Cut-Copy-Paste

SS-SU-320

Scheduled Order MRP % Maintenance

Menu Number 5.5.1.17

Use Scheduled Order MRP % Maintenance to distribute supply percentages between suppliers.

Note You can use this function when you are phasing out one supplier and replacing them with a new one. You can control the percentages using the start from dates (Effective) while the new supplier takes on more load or finds the required quality levels.

There are two frames.

Header Frame

In the header frame you enter the ship-to site, item number, and effective start from date.

Purchase Order Percents Frame

In this frame you specify the scheduled orders involved and the percentage of requirement to be satisfied by that order.

Field Definitions

Purchase Order

The purchase order number to which this scheduled order percentage applies.

- Linking to a purchase order also establishes a link to a supplier

Percent

The percentage that the purchase order is to supply for the item to the site on and after the effective date.

- For example, 60% of an item from supplier A and 40% of the item from supplier B
- Percentages must equal 100% for each item

Exercises



SS-SU-330

Important The data used in these exercises may not be the same as the data shown in the screen captures in this lesson. In an exercise, if a field is not listed, you can accept the default value or leave it blank.



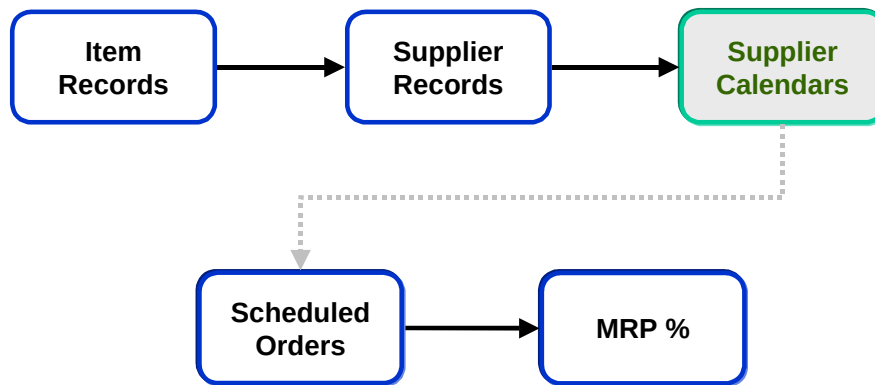
See in this training guide: *Workshops and Study Questions* on page 211 for more practice

Exercise: Calculating Percentage

Description: You are now ready to calculate the percentage of MRP-planned orders to be scheduled using this supplier schedule.

- 1 Using today's date as your Effective date, enter 100% for your purchase order.
Use Scheduled Order MRP % Maintenance, 5.5.1.17

Supplier Schedules Setup Summary



SS-SU-340



Course Overview

- ✓ Introduction to Supplier Schedules
- ✓ Business Considerations
- ✓ Set up Supplier Schedules
- ◆ Process Supplier Schedules
- ◆ Process Supplier Schedules Receipts

SS-SU-350

CHAPTER 4

Process Supplier Schedules





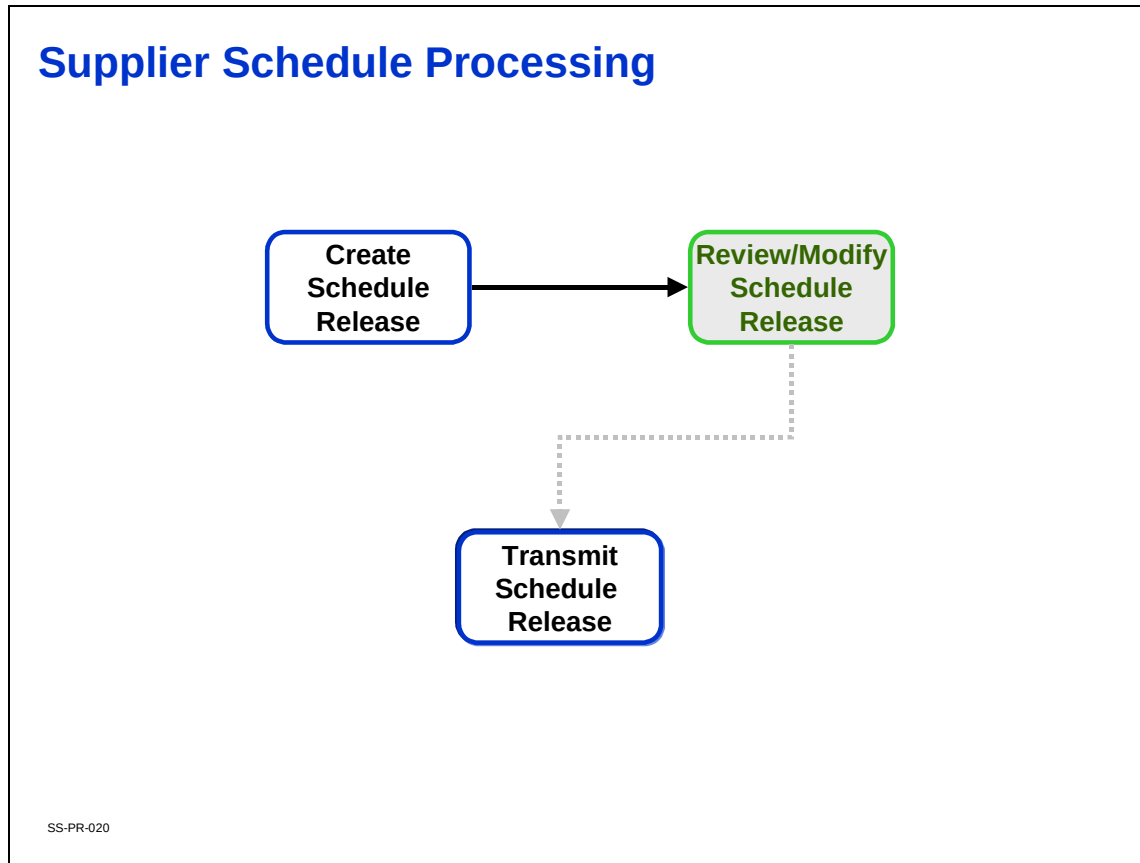
Process Supplier Schedules

In this section you learn how to:

- ✓ Identify some key business considerations before setting up Supplier Schedules in MFG/PRO
- ✓ Set up Supplier Schedules in MFG/PRO
- ✓ **Process Supplier Schedules in MFG/PRO**
- ♦ Process Supplier Schedules Receipts in MFG/PRO

SS-PR-010

Process Supplier Schedules



Supplier Schedule Processing

This illustration is a suggested processing sequence of supplier schedules which is based on information that flows from one master file to another and prerequisites that need to be accomplished before setting up a file. Reading the illustration:



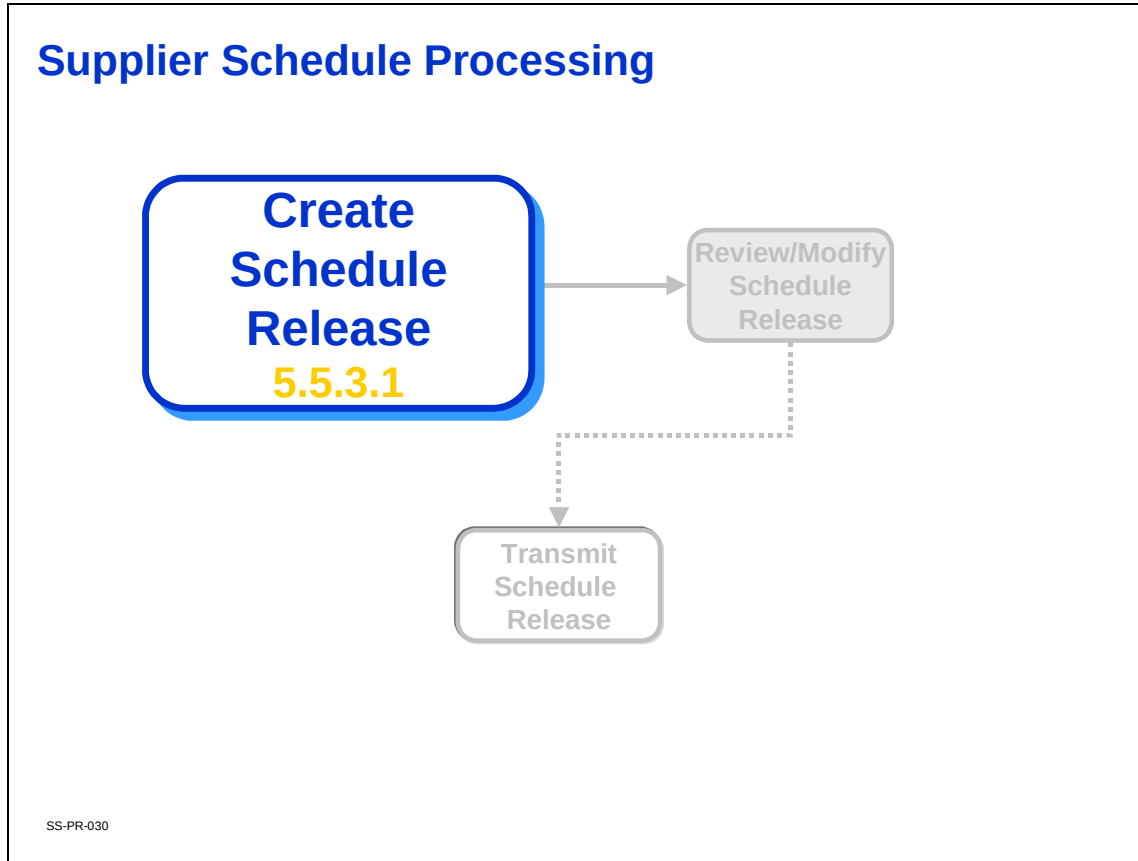
Boxes with solid lines are required to process supplier schedules and are covered in this course.



Shaded boxes reflect optional steps, but are covered in this course.



Boxes with dotted lines are required, but are covered at length in another course.



Create Schedule Release

Once you have the MRP demand, you can take the MRP requirements and determine the due dates and quantities for each scheduled order item by supplier. With this information, you are ready to produce a new active schedule release.

- A release is a set of item quantities and requirement dates identified by a release ID number
- The release is what you send to your supplier

5.5.3.1 – Schedule Update from MRP

Schedule Update from MRP

User Menu Edit Queue Options Help

Purchase Order: To:

Item Number: To:

Ship-To: To:

Supplier: To:

Buyer: To:

Generate Planning Schedule: no

Generate Shipping Schedule: no

As-of Date: 02/14/00 Monday

Calendar/Working Firm Days: Calendar

Report Detail/Summary: Summary

Update: yes

Output:

Batch ID:

F1=Help F2=Go ESC=End Ctrl+X=Cut Ctrl+C=Copy Ctrl+V=Paste

SS-PR-040

Schedule Update from MRP

Menu Number 5.5.3.1

Use Schedule Update from MRP to automatically create a new release of a supplier schedule.

You select the scheduled order(s) using one or more of the following:

- Purchase Order (scheduled order)
- Item Number
- Ship-To (receiving site)
- Supplier
- Buyer

To select all, leave the field blank.

Field Definition

As of Date

The beginning date for all supplier schedule releases generated by this run.

- Defaults to the system date
- The date prior to this date is stored in the Prior Cum Date field of each new schedule release generated:
 - The Prior Cum Date is used for calculating back orders on the schedule lines
- Schedule detail requirements for this release start on or after this date

Calendar/Working Firm Days

Determines how system interprets the Firm Days field value (set in Scheduled Order Maintenance 5.5.1.13).

- If set to Calendar, system refers to the supplier calendar
- Defaults to Calendar

Note This field is only relevant if you set Firm Days to a value greater than zero (0).

Report Detail/Summary

Indicates the type of report to be printed for each order detail record.

- If Detail, a complete audit report prints
- If Summary (default value), only the following print:
 - Ship-from (supplier)
 - Ship-to (site)
 - Item number
 - Unit of measure
 - Purchase order number

Update

Determines if planned orders are approved and a release created.

- If Yes, new schedule releases are calculated and created
- If No, schedule releases are calculated, but no updates are made
 - Default

Note By setting Update to No, you can run the process and view the report. This allows you to review the new schedule releases prior to actually creating them.

Calculating the Schedule Release



SS-PR-050

Calculating the Schedule Release

Using the selection criteria you enter, Schedule Update from MRP:

- Locates all planned orders from MRP for the selected items
- Looks at the scheduled order for the supplier and adjusts the quantities and due dates using the scheduled order's parameters
 - These parameters are set in the Order Line Item Data frame of Scheduled Order Maintenance

In calculating the schedule release, Schedule Update from MRP performs the following calculations.

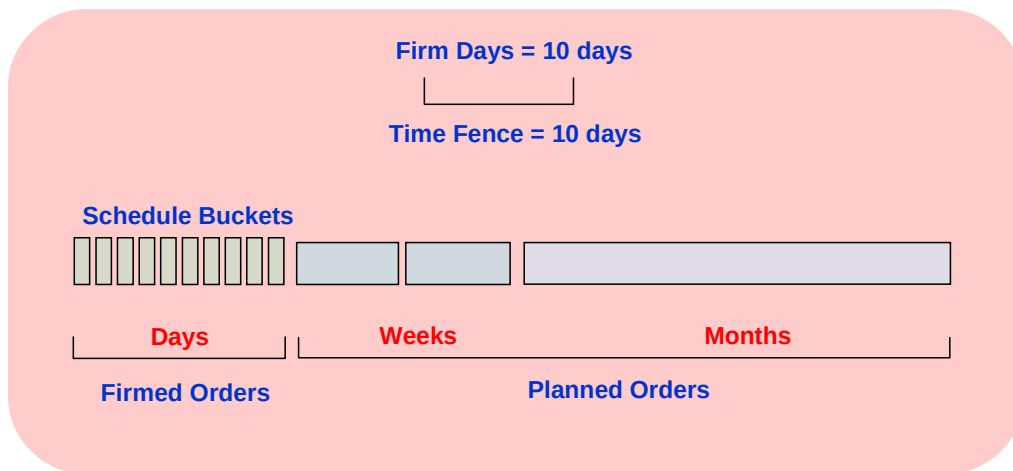
- 1 Back-schedules for safety days from planned order due dates.
- 2 Back-schedules for ship/delivery pattern from safety day schedule.
- 3 Back-schedules for supplier calendar from ship/delivery date.
- 4 Distributes the requirements among the suppliers using the percentages specified in Schedule Order MRP % Maintenance 5.5.1.17.
- 5 Revises net required (i.e., open, not scheduled) quantities to standard pack quantity multiple.
- 6 Displays any unfulfilled prior cumulative requirements.
- 7 Creates the release.
 - a Assigns a Release ID.

Note In Purchasing Control File 5.24, if Generate Date Based Release ID is set to Yes, a newly-created release gets a release number with a format of YYYYMMDD-nnn, otherwise it gets the usual 6-digit serial number. If it runs on July 16, 2001, for the first time, the release number is: 20010716-001. If it runs again on July 16, 2001, it sees that 20010716-001 already exists, and it increments the last 3 digits, e.g.: 20010716-002.

- b Determines whether quantities are firm (i.e., within the Firm Days time fence) or planned.
- 8 Displays fabrication and raw authorization quantities and the start and end dates.

Each time you run Schedule Update from MRP, all or part of the schedule is replaced depending on the Firm Days field value.

Planning Horizons – Firm Days



SS-PR-060

Planning Horizons – Firm Days

The setting of the Firm Days field in Scheduled Order Maintenance 5.5.1.13 greatly affects the calculation of the schedule release. Because you are sending order quantities and planning data to your supplier, you define requirements as either firmed or planned quantities. You can send all firm, all planned, or some of both types of requirements. The value of the Firm Days field for the scheduled order line item defines the time fence and consequently determines the order status.

Schedule Update from MRP automatically applies firm status to any requirements falling within the time fence set by the Firm Days field. All planned orders outside this time fence are approved, but maintained as planned requirements. In other words, they are not seen by MRP as sources of supply and can be replanned.

When creating a new schedule release, Schedule Update from MRP does the following:

- Checks for an active schedule release with unreceived firm requirements. If one exists:
 - The firm requirements are carried forward to the new release
 - Firm requirements prior to the beginning date of the new schedule release (as of date) are maintained as prior cumulative requirements (Prior Cum Req)
- Accesses MRP planned order information and adds it to the new schedule release, starting one day after the end of the firm time period of the old schedule release:
 - Firms any planned orders falling within the Firm Days time fence

When you run MRP again, it plans or replans orders for scheduled requirements that are now within its planning horizon. Once a schedule is created with firm data in it, MRP does not generate planned requirements with dates falling within the Firm Days time fence of the schedule release. However, if there is an increase or decrease in demand, the following occur:

- If increased demands create additional requirements within the Firm Days time fence, MRP creates planned orders in that time period
- When you regenerate the schedule release, the system does not select any planned orders falling within the Firm Days time fence covered by a schedule:
 - The warning message `Order not selected` displays
- If decreased demand decreases requirements, MRP sees the supply as excessive and produces action messages:
 - Action messages recommend what action a master scheduler should take to balance supply and demand

You can set the Firm Days field to a positive value or zero (0).

Positive Value

Schedule Update from MRP:

- Generates firm requirements for a new schedule release
- Carries forward outstanding firm requirements to new schedule releases:
 - Firm requirements are visible to MRP as scheduled supply

Zero (0) Value

Schedule Update from MRP does not:

- Generate firm requirements for a new schedule release

- Carry forward any requirements from previous schedule releases

If 0, the update process generates each new schedule release from MRP planned data.

- All data is designated as planned
- Data designated as planned is not visible to MRP

The update process sets the prior cumulative requirements (Prior Cum Req) to the current value of the cumulative received (Cum Received). If any planned order has a requirement date falling before the beginning date of the schedule release, it is added to the prior cumulative requirements.

Note To avoid schedule discrepancies between printed bucketed schedules and the actual required schedule, firm days should never exceed the number of days specified in the Schedule Days field (set in Scheduled Order Maintenance 5.5.1.13).



Important The data used in these exercises may not be the same as the data shown in the screen captures in this lesson. In an exercise, if a field is not listed, you can accept the default value or leave it blank.

Exercise: Create Schedule Release

Description: You are going to create a schedule release for your scheduled order.

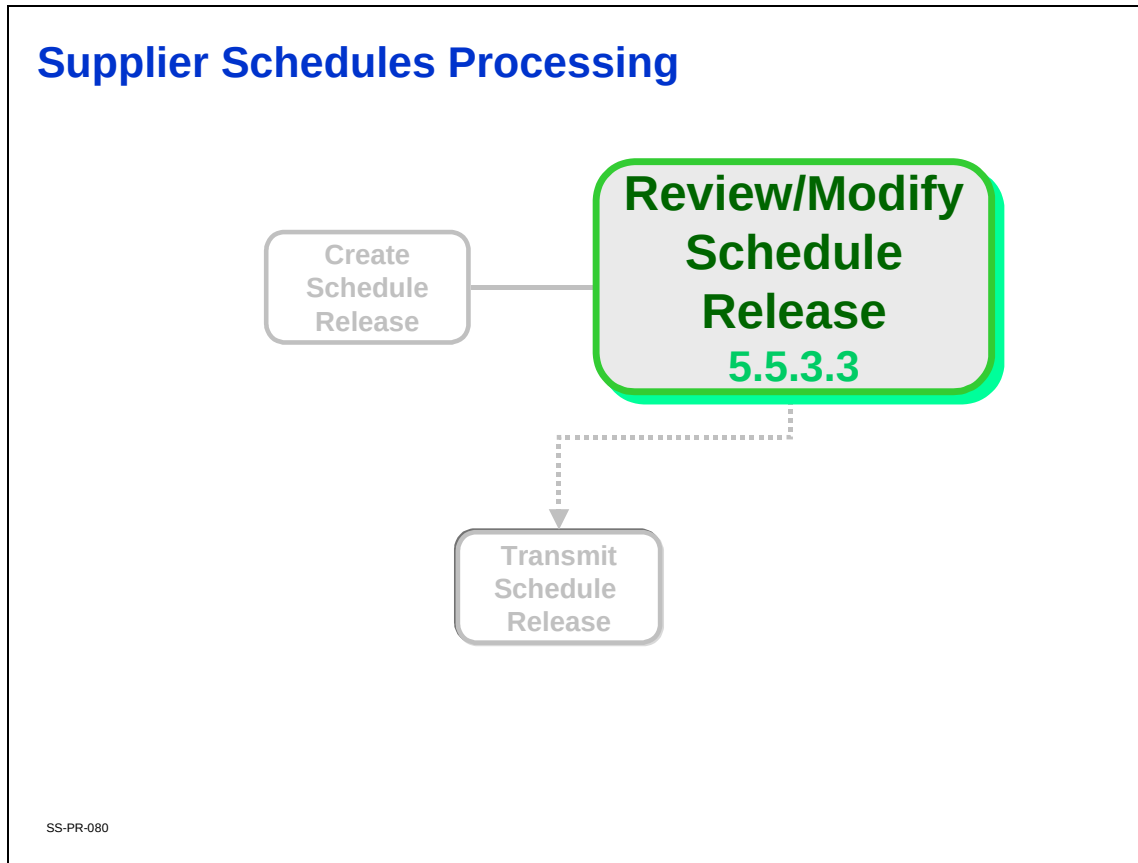
- 1 Using your scheduled order number, run the update. Let the As of Date default to the system date.

Field	Data
Report Detail/Summary	Detail
Update	Yes

Send the output to either your local printer (if available) or to your terminal.

Use Schedule Update from MRP, 5.5.3.1

- 2 Review the output taking note of the calculation steps.



Review/Modify Schedule Release

There may be times when you need to modify a scheduled order release or simply wish to review the release data. For example, if the requirements change in a release, you will need to manually adjust the firm quantities. You can change release data such as:

- Requirement dates
- Quantities
- Firmed or planned status
- Fab and raw authorization quantities and dates

5.5.3.3 – Schedule Maintenance

The screenshot shows the 'Schedule Maintenance' window. A red box highlights the 'Purchase Order: P01016' field, with an arrow pointing to it from a text box that says 'Identifies the scheduled order'. A blue box highlights the 'Release ID: 000001' field, with an arrow pointing to it from a text box that says 'Identifies the schedule release'. The window also displays fields for 'Item: 22-110', 'Supplier: 5001000 General Supply Corporation', 'Ship-To: 10000', 'Line: 1', 'UM: EA', 'Comments: no', 'Prior Cum Req: 10,000.0', 'Prior Cum Date: 08/31/95', 'Create Date: 09/01/95 12:03:37', 'Active Start: 09/01/95', and 'Active End: / /'. At the bottom, it says 'Modifying the active schedule release.' and 'F1=Help F2=Go ESC=End F5=Delete Ctrl-X/C/V=Cut-Copy-Paste'.

SS-PR-090

Schedule Maintenance

Menu Number 5.5.3.3

Use Schedule Maintenance to modify or review a scheduled order release. You can also use Schedule Maintenance to reactivate a schedule release or to create schedule releases manually.

There are four frames of data.

Header Frames

There are two header frames. The first header frame identifies the scheduled order release you wish to see. To select the most current release, press Enter on the Release ID field.

In the second header frame you specify the prior cumulative date and the active start date.

Field Definitions

Comments

You have the option to enter comments for this schedule release.

- If Yes, the Transaction Comments screen appears for you to enter comments
- If No, you are not given the opportunity to enter comments
 - Default

Prior Cum Req

The total quantity on back order as of the date of this release.

- When you create a new release, any outstanding quantities are taken off the old release and added to this total
- You can view this as a measure of how far behind you believe the supplier may be against the schedule
- MRP views the amount by which the prior cumulative required exceeds the cumulative received as scheduled supply

Prior Cum Date

The date through which the prior cumulative amount includes.

Active Start

The date this release starts.

- Normally the day after the Prior Cum Date

Active End

The date representing the end of this release.

- This field is usually blank for the current active release:
 - If you want the release to have a finite life, you can enter an end date
- When a new release takes effect, this date is set to the system date in the existing release (if it hasn't already been set)

5.5.3.3 – Schedule Maintenance: Schedule Detail Data

Schedule Maintenance

User Menu Edit Queue Options Help

Purchase Order: P0010000 Line: 1
 Item: bx-0001 BOX100 UM: EA
 Supplier: 5011000 DIXON CORPORATION
 Ship-To: train
 Release ID: 20010123-001

Date	Time	Reference	Quantity	Q
01/29/01			100.0	P
02/05/01			100.0	P
02/12/01			100.0	P
02/19/01			100.0	P
02/26/01			100.0	P
03/05/01			100.0	P
03/12/01			100.0	P
03/19/01			100.0	P
03/26/01			100.0	P
04/02/01			100.0	P
04/09/01			100.0	P

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-PR-100

Schedule Detail Data Frame

The third frame displays the dates, quantities, and status of individual lines in the release. If you need to alter this information, you do so in this frame.

- If you needed to create a manual schedule release, you would enter the information here:
 - For example, if you are just starting a product up and the planning parameters are not yet set, but the item has a significant lead time

Field Definitions

Date

The date of the schedule release.

Time

The time of the schedule receipt.

- Default is blank

Note MRP does not schedule by time. However, you can enter a time in the Time field to use as a reference for when the shipment should arrive.

Reference

The reference number of the schedule release.

- Default is blank
- Can use as a identifier

Quantity

The quantity of the item required at the specified date and time.

Q

Indicates whether the net required quantity for this schedule line is a firm (F) or planned (P) requirement.

- The net required quantity is the amount by which the cumulative required quantity exceeds the cumulative quantity received against the schedule line

5.5.3.3 – Schedule Maintenance: Resource Authorization Data

The screenshot shows a software window titled "Schedule Maintenance". It has a menu bar with "User Menu", "Edit", "Queue", "Options", and "Help". Below the menu bar is a toolbar with several icons. The main area of the window displays the following information:

Purchase Order: P01016
 Item: 22-110
 Supplier: 5001000 General Supply Corporation
 Ship-To: 10000
 Release ID: 000001

Line: 1
 UM: EA

Below this information is a section titled "Resource Authorization Data" which is highlighted with a yellow border. It contains the following fields:

Fab Qty:	10,000.0	Fab Start:	05/05/93	Fab End:	09/30/95
Raw Qty:	10,000.0	Raw Start:	05/05/93	Raw End:	10/30/95

At the bottom of the window, there is a status bar with the text: F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-PR-110

Resource Authorization Data Frame

This frame shows the fabrication and raw materials amounts and dates.

- Defaults from the scheduled order created in Scheduled Order Maintenance 5.5.1.13
- Changes made to this information affect this release only

If you are manually creating a release, after this frame you are prompted to make this release active.

Exercises



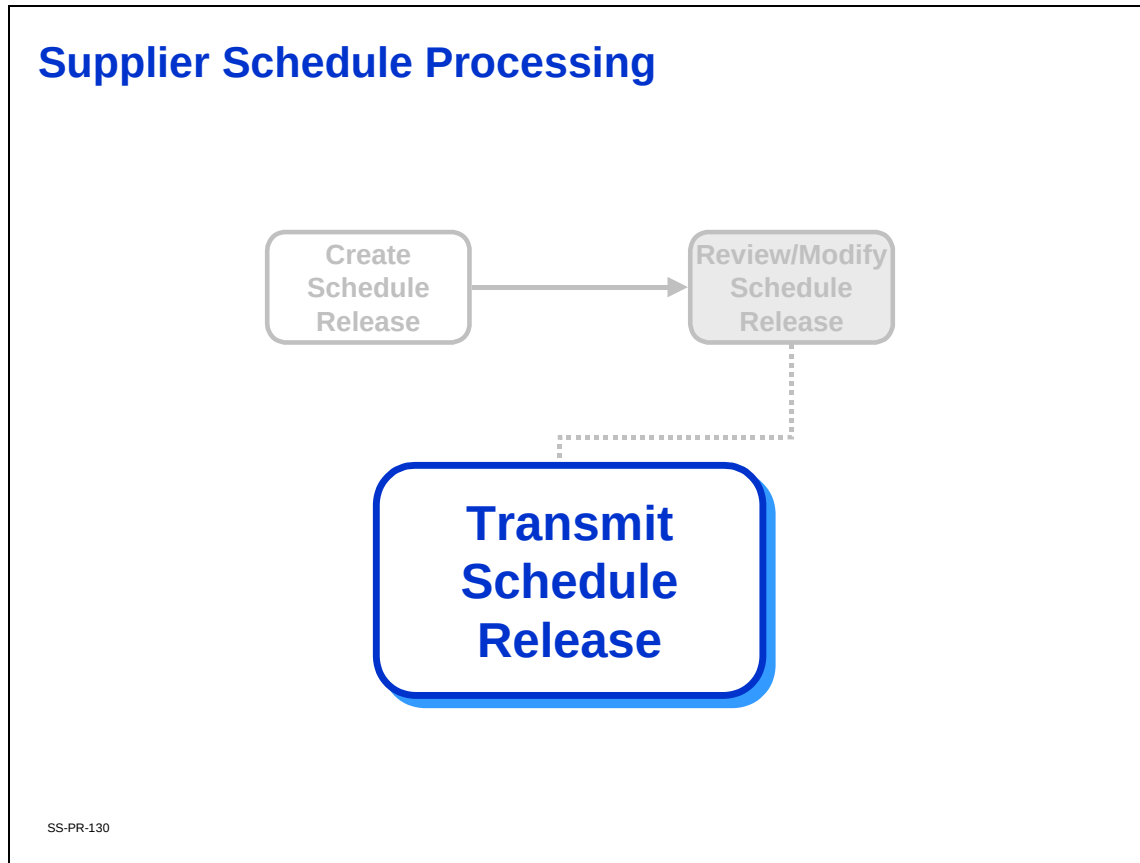
SS-PR-120

Important The data used in these exercises may not be the same as the data shown in the screen captures in this lesson. In an exercise, if a field is not listed, you can accept the default value or leave it blank.

Exercise: Review Schedule Release

Description: You are going to review the schedule release you just created.

- 1 Bring up your schedule release. Press Enter to access the current Release ID.
Use Schedule Maintenance, 5.5.3.3
- 2 Go through each frame, reviewing your schedule order details. Make sure that what you see is what you expected.



Transmit Schedule Release

You can transmit the schedule release by:

- Sending a hard copy
- Faxing
- Exporting

Before you can transmit the schedule release using one or more of the above methods, you need to set up the appropriate defaults. You do this in Trading Partner Parameters Maintenance 35.1. The value you set up there defaults to the scheduled order (Scheduled Order Maintenance 5.5.1.13) where you can accept the default or override it.

The fields you need to set up are:

To	Set to Yes
Send a hard copy	Print Schedules
Fax	Fax Schedules
Export	EDI Schedules

5.5.3.8 – Schedule Print

Schedule Print

User Menu Edit Queue Options Help

Purchase Order: To:

Item Number: To:

Supplier: To:

Ship-To: To:

Buyer: To:

Schedule Type: 4 Supplier Schedule

Print Zero Schedules:

Sort Option:

1 - By Ship-to, Supplier, Item, PO

2 - By Item, Ship-to, Supplier, PO

3 - By PO, Item

Output:

Batch ID:

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-PR-140

Schedule Print

Menu Number 5.5.3.8

Use Schedule Print to print the schedule release. Schedule releases can be printed individually or in batch mode. You have the option of printing schedule releases having zero (i.e., no) requirements.

The printed schedule release shows the order's long-range requirements, detailed by dates and quantities. It has two sections:

- Header section
- Line item section

The header section identifies the release ID, contains supplier and ship-to information, and general information about the release. It also shows:

- Release date
- In transit quantity
- Receipt date and receipt quantity
- Cumulative received quantity
- Shipper ID
- Ship/delivery pattern

The line item section shows the order detail information for each scheduled requirement. Information such as:

- Ship or delivery interval
- Ship or delivery date
- Ship or delivery time
- Required quantity:
 - The discrete or bucketed quantity for the scheduled line
- Cumulative required quantity:
 - Total cumulative requirement including the line quantity, for the entire life of the order
- Net required quantity:
 - Total open quantity including the line quantity

Exercises



SS-PR-150

Important The data used in these exercises may not be the same as the data shown in the screen captures in this lesson. In an exercise, if a field is not listed, you can accept the default value or leave it blank.

Exercise: Print Schedule Release

Description: You are going to print your schedule release.

- 1 Print your schedule release. Review the information.

Use Schedule Print, 5.5.3.8

5.5.3.9 – Schedule Print in Fax Format

SS-PR-160

Schedule Print in Fax Format

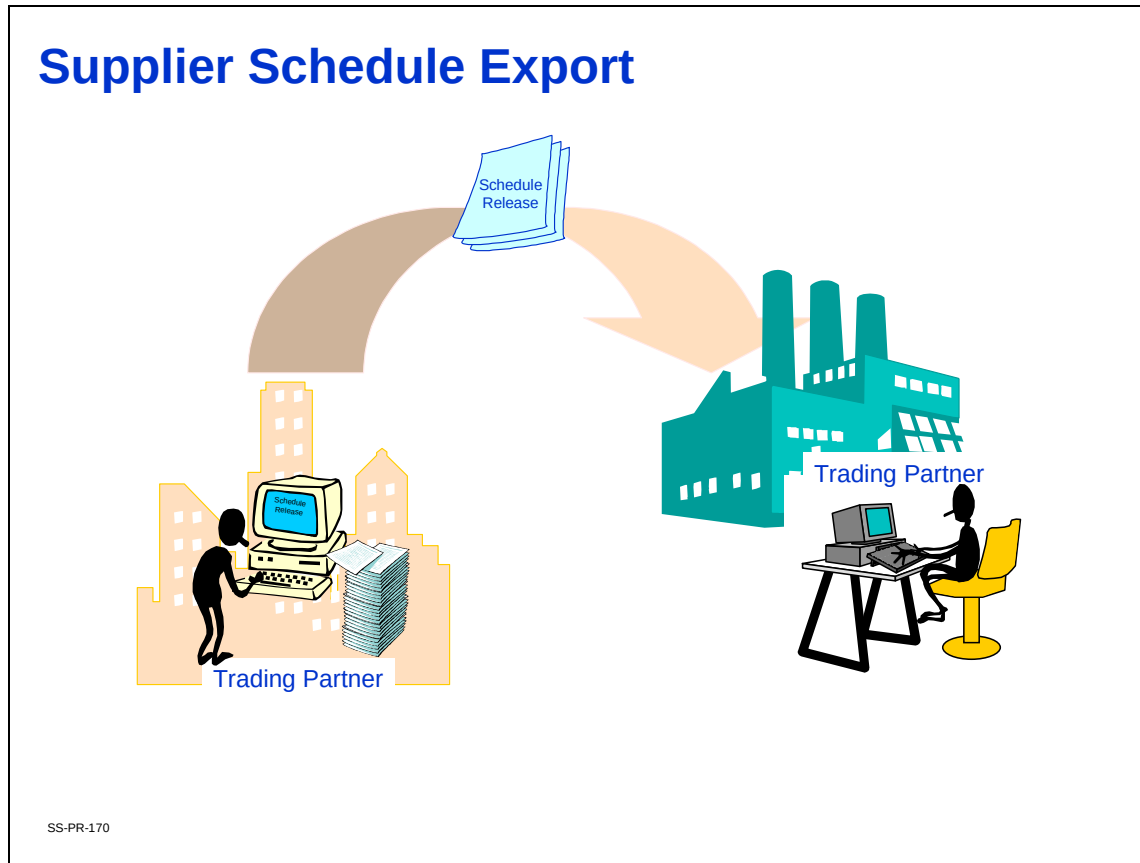
Menu Number 5.5.3.9

Use Schedule Print in Fax Format to select orders you are faxing to your supplier. Schedule releases can be faxed individually or in batch mode. You have the option of including schedule releases having zero requirements.

Note The actual faxing is done by an external fax transmitting system.

The system sorts the orders by supplier. At the top of the first schedule for each supplier, a pound sign (#) prints, followed by the supplier's fax number.

The scheduled order release being faxed shows the long-range requirements, detailed by dates times, and quantities.



Supplier Schedule Export

You can export supplier schedules using EDI or ECommerce.

Note Before you can export the release to a supplier, you need to set up the supplier in Trading Partner Parameters Maintenance 35.1.

After exporting the supplier schedule, you can run Supplier Schedule Export Audit Report 35.19 to check for error messages and verify if the export process was successful.



See in this training guide: *EDI Overview* on page 181



Discussed in the following Training Guide: ECommerce

35.18 – Supplier Schedule Export

Supplier Schedule Export

User Menu Edit Queue Options Help

Purchase Order: To:

Item Number: To:

Supplier: To:

Ship-To: To:

Buyer: To:

Export Supplier Schedule:

Export Planning Schedule:

Export Shipping Schedule:

Print Zero Schedules:

EDI Batch No.:

Export to File or Process:

Export Directory/Process Name:

Export File Name:

Output:

Batch ID:

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-PR-180

Supplier Schedule Export

Menu Number 35.18

Use Supplier Schedule Export to export scheduled order releases to your supplier.

- Schedule releases can be exported individually or in batch mode
- You have the option of including schedule releases having zero requirements

35.21.4.8 – Supplier Shipping Schedule

Supplier Shipping Schedule

User Menu Edit Queue Options Help

Purchase Order: To:

Item Number: To:

Supplier: To:

Ship-To: To:

Buyer: To:

Export Supplier Schedule:

Export Planning Schedule:

Export Shipping Schedule:

Print Zero Schedules:

Print Details:

EDI Batch No.:

Output:
Batch ID:

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-PR-190

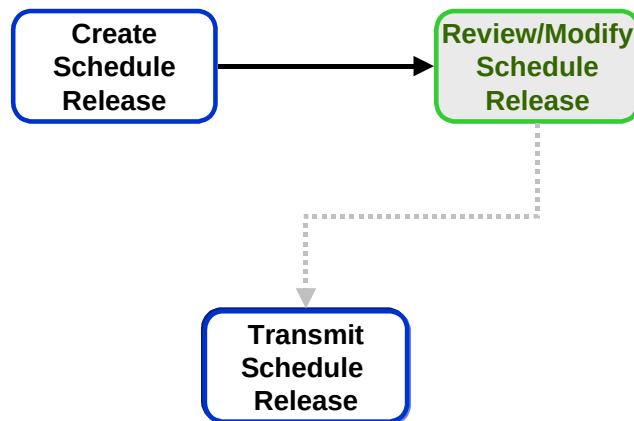
Supplier Shipping Schedule

Menu Number 35.21.4.8

Use Supplier Shipping Schedule to export schedule releases to your supplier.

- Schedule releases can be exported individually or in batch mode
- You have the option of including schedule releases having zero requirements

Supplier Schedules Processing Summary



SS-PR-200



Course Overview

- ✓ Introduction to Supplier Schedules
- ✓ Business Considerations
- ✓ Set up Supplier Schedules
- ✓ Process Supplier Schedules
- ◆ Process Supplier Schedules Receipts

SS-PR-210

CHAPTER 5

Supplier Schedules Receipt Processing





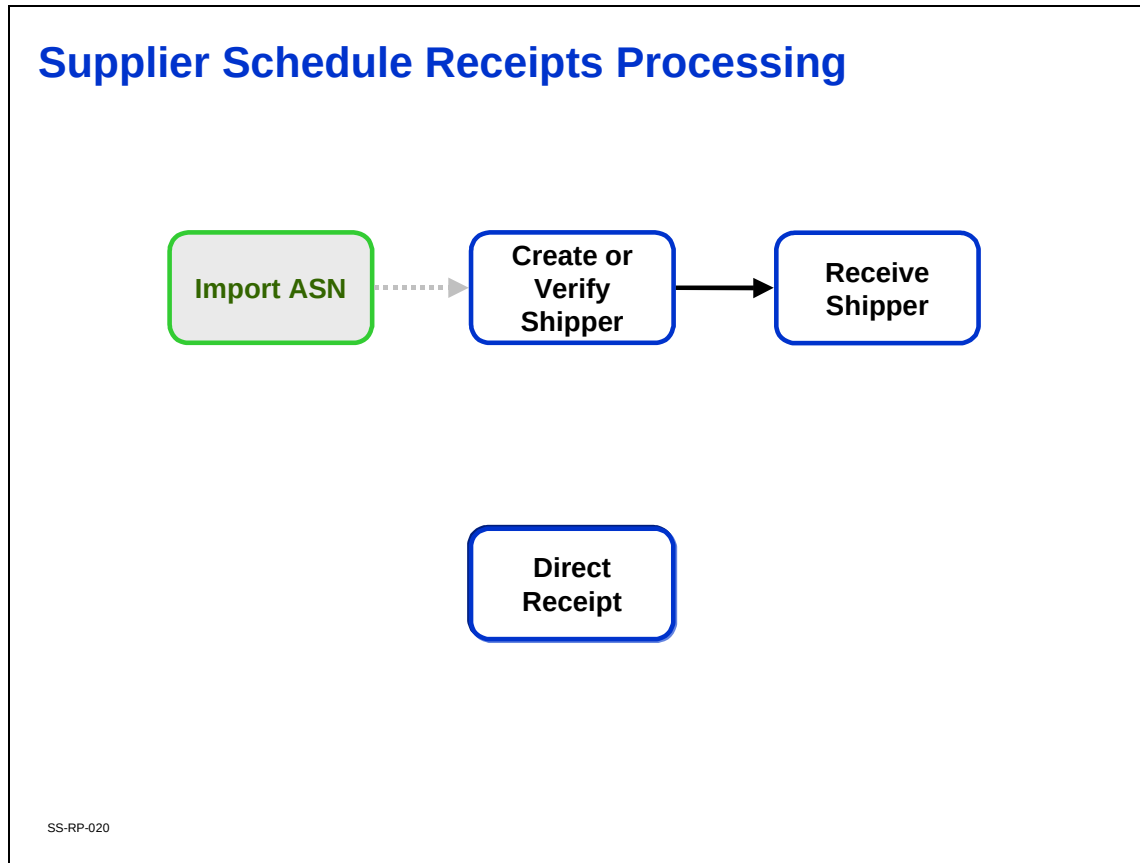
Process Supplier Schedules Receipts

In this section you learn how to:

- ✓ Identify some key business considerations before setting up Supplier Schedules in MFG/PRO
- ✓ Set up Supplier Schedules in MFG/PRO
- ✓ Process Supplier Schedules in MFG/PRO
- ✓ **Process Supplier Schedules Receipts in MFG/PRO**

SS-RP-010

Process Supplier Schedules Receipts



Supplier Schedule Receipts Processing

This illustration is a suggested processing sequence of supplier schedules which is based on information that flows from one master file to another and prerequisites that need to be accomplished before setting up a file. Reading the illustration:



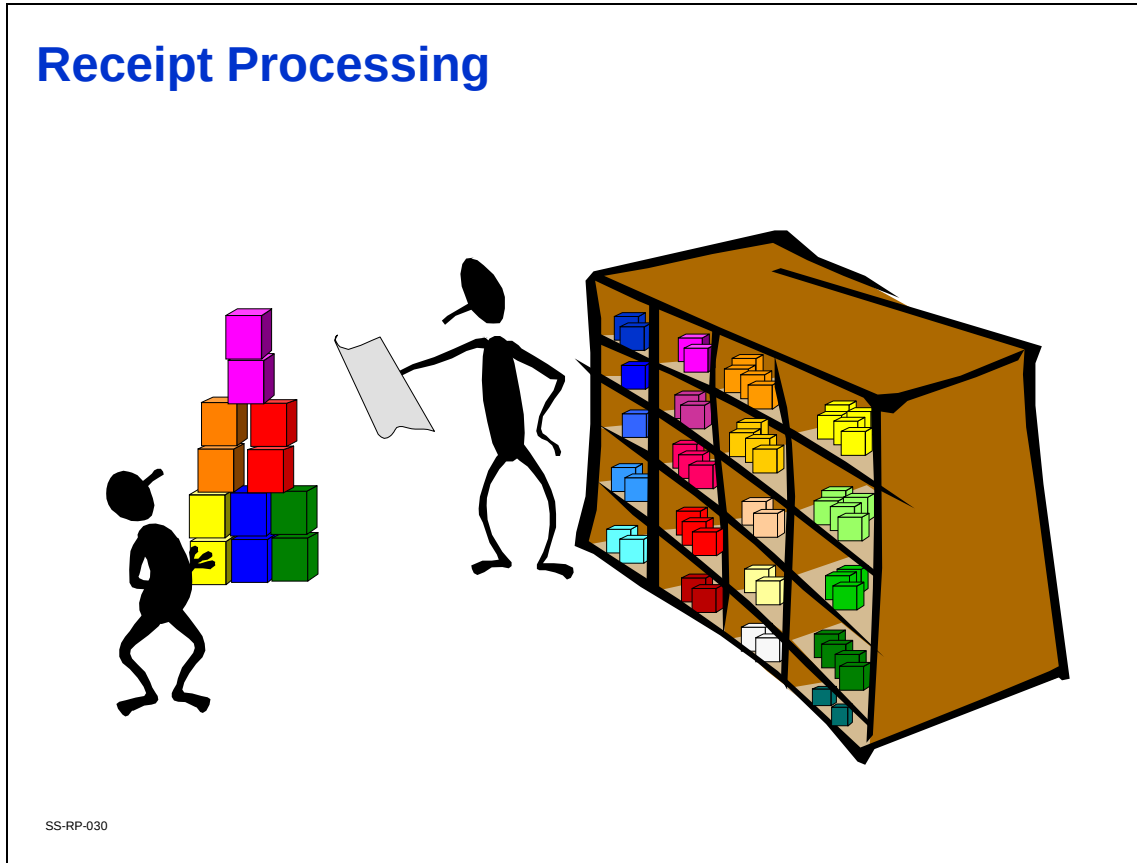
Boxes with solid lines are required to process supplier schedules and are covered in this course.



Shaded boxes reflect optional steps, but are covered in this course.



Boxes with dotted lines are required, but are covered at length in another course.



Receipt Processing

How you receive items against your scheduled release depends on the relationship you have set up with your supplier. You can receive notification of the shipment by:

- ASN
 - ANSI ASC X12 856 document, defined by an ASN number
 - Transmitted when a shipment leaves the supplier's shipping dock
 - Provides you with advanced notice of the items just shipped
 - Can represent multiple items over multiple orders
- Packing list
 - Send with the shipment

- Identified by a Shipper ID
 - Shows quantities and items
- Shipping labels
 - Bar code labels affixed to each shipment container and container group
- Invoice
 - Shows quantities and items detail by order, with extended pricing

Once you receive notification of the shipment, you have three ways to process/receive the shipment:

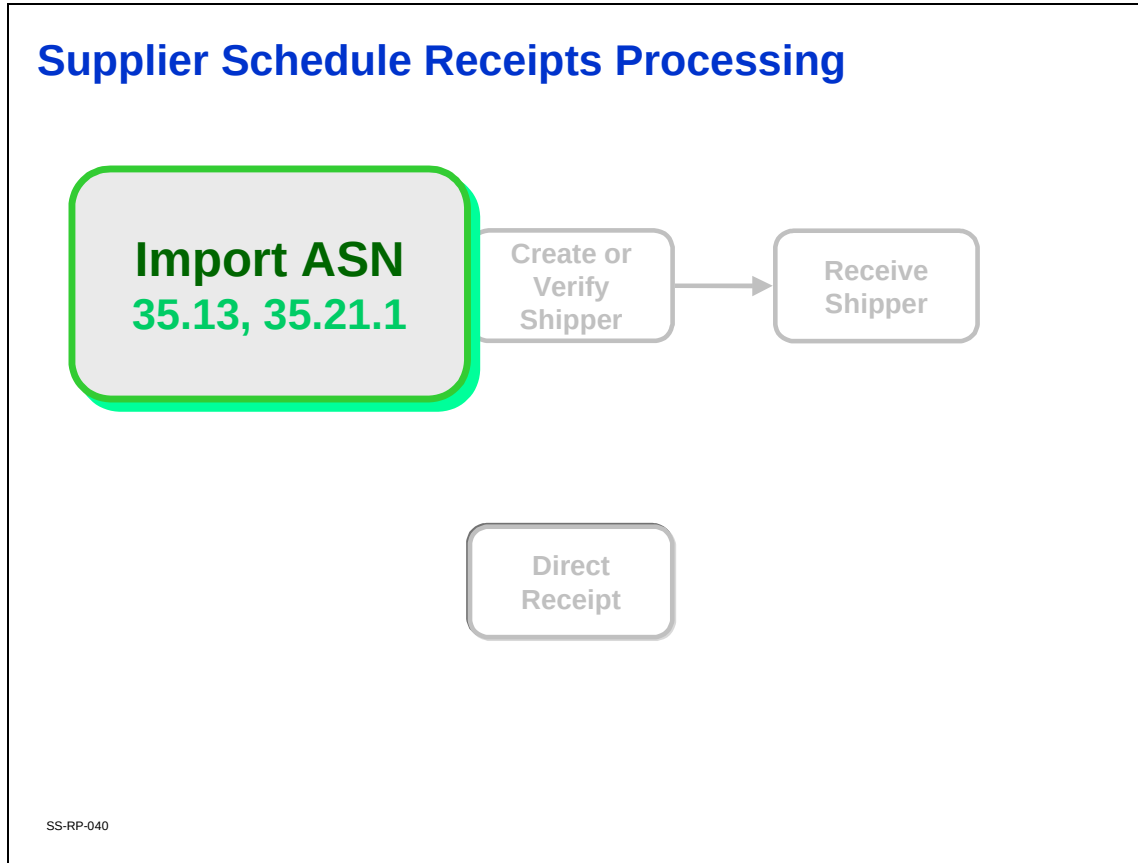
- Import, verify, receive, and confirm the ASN
- Manually create, receive, and confirm a shipper
- Direct receipt using the Purchasing module

The receiving process begins with the arrival of either an ASN, signifying a shipment is on the way, or by the actual shipment and accompanying documentation. The first step is to record or verify the shipment data such as shipment ID, items in the shipment, quantities, costs, and sometimes containers.

If receipt was by way of an ASN, the information will be in your system after importing the ASN. You can verify the shipment data before you receive and confirm the shipment. If your supplier did not send an ASN, you will need to enter the shipment data into the system to create a shipper.

Once the shipment data is in the system, you then receive and confirm the shipper. This updates three history records:

- Purchase receipts
- Inventory transactions
- Inventory GL costs



Import ASN

Frequently an ASN is sent, using EDI or ECommerce, as soon as the shipment leaves the supplier's shipping dock.

Some suppliers only transmit an ASN. You then treat the ASN as the receiving document and the invoice. Each ASN is identified by an ASN number. This number acts as the shipper number and the invoice number.

Note Before you can import from a supplier, you need to set up the supplier in Trading Partner Parameters Maintenance 35.1.

35.13 – Document Import

Document Import

User Menu Edit Queue Options Help

Address: To:

Document Type: To:

Document ID: To:

Import from File/Process:

Import File/Process Name:

Report Detail/Summary:

Update:

Output:

Batch ID:

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-RP-050

Document Import

Menu Number 35.13

Use Document Import to import the ASN. Document Import locates and opens EDI-transmitted documents, in this case the ASN. It then takes the data and converts it into a data format able to be recognized by MFG/PRO. The ASN is then ready to be processed.

The system generates a report on the import process.

Field Definitions

Address

The address code of the trading partner.

Document Type

The document type.

- Document type is defined by individual EDI implementation

Document ID

Document identifier.

- If used, should be for the specific type of document.

Import from File/Process

Indicates the type of input being read.

- If File, system looks for a filename defined in the Import File/Process Name field
 - Use if retrieving data from the MFG/PRO database
- If Process, system looks for an executable program or script, starts it as a separate process
 - Can only be used with UNIX systems
 - Default

Note Value defaults from the Import from File or Process field set in the EDI Control File 35.24.

Import File/Process Name

Indicates the name of the file or process being imported.

Note Value defaults from the Import File/Process Name field set in EDI Control File 35.24.

Report Detail/Summary

Indicates the type of report to be printed.

- Detail is the default

Update

Determines if database is changed.

- If Yes, program runs in update mode and changes records in the database
 - Default
- If No, program runs in report only mode, no changes are made

35.25.1 – Document Import

Document Import

User Menu Edit Queue Options Help

File Type (New/Error): **New**

Print Details: **no** Pre-Select All: **no**

Files:

Sessions:

Output:

Batch ID:

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-RP-060

Document Import

Menu Number 35.21.1

Use Document Import to start the process of loading standards neutral format (SNF) files from the ECommerce subsystem, transforming them into formats usable by MFG/PRO, and transferring them into the MFG/PRO database using a gateway program.

The system generates a report on the import process.

Field Definitions

File Type (New/Error)

Type of files to be listed in the Select File(s) frame.

- If New, system selects from a list of new, unprocessed files in the import directory
 - Default

Note Import directory specified Inbound Directory in the ECommerce Control File 35.21.13.24.

- If Error, system displays only files containing documents that encountered load errors during previous imports

Note Stored in the error file directory specified in the Error File Directory field set in the ECommerce Control File.

Print Details

Determines what is included on the report generated during the import process.

- If Yes, error and warning messages are included on the report
- If No, report only includes higher-level summary information
 - Default

Pre-Select All

- If Yes, all selected files display on the selection list
- If No, files still display, but none are initially selected
 - Default

Files

Names of the files to be imported, including extensions.

- Separate multiple file names with commas
- System validates the input

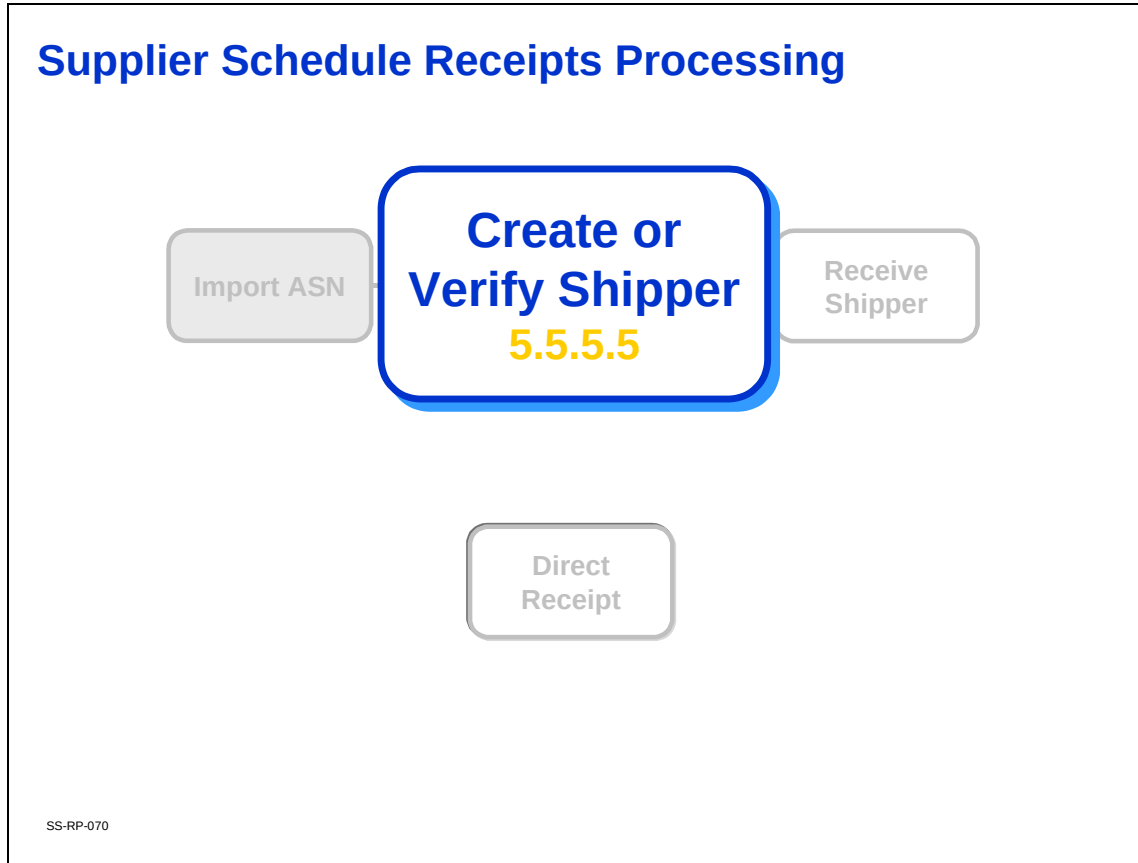
Sessions

- System-assigned numbers group all the files imported during a particular session
 - Track the status of the documents imported
 - Identify any errors that occurred during processing

- The system assigns a sequence number to each file selected
 - Use to group the documents within the file
- If documents cannot be loaded, the system writes them to an error file
 - Uses the process session number as a file name



Discussed in the following Training Guide: ECommerce



Create/Verify Shipper

You can create a shipper using the documentation accompanying the shipment. A shipper itemizes the items and quantities in the shipment. Sometimes you also need to track the shipping containers.

You can receive container information electronically as part of an ASN or the information may arrive with the shipment and be entered manually. Container information may also be scanned into the system from bar code readings of shipping labels.

5.5.5.5 – PO Shipper Maintenance

Supplier: 50000000		Hydroxco Gas Processors Inc
Shipper ID: cBX093		100 Foothill Blvd.
Ship-To: 10000		San Diego Main Plant
Contents (Containers)		
Container ID: BX093	CODEINE BASE	

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-RP-080

PO Shipper Maintenance

Menu Number 5.5.5.5

Use PO Shipper Maintenance to create a new shipper, to modify, or view an existing shipper. If using ASNs, you can use PO Shipper Maintenance to see and verify the shipment details before you receive and confirm it.

Note You can modify a shipper that has been confirmed. However, you cannot reconfirm modified shippers.

Header Frames

You identify the shipper by entering the supplier code, a shipper ID, and a ship date. The shipper ID can come from:

- ASN already in the system
- Bar code reading of a shipping label
- Entering the number from the receiving document (e.g., picklist)

In the second header frame you enter the site where the shipment is being delivered in the Ship-To field.

Content (Contents) Frame

If you are tracking the shipping containers, enter the container ID.

5.5.5.5 – PO Shipper Maintenance: Contents (Items) Frame

PO Shipper Maintenance

User Menu Edit Queue Options Help

Supplier: 5011000 Ship Date: 01/24/01 DIXON CORPORATION
 Shipper ID: 100 1000 INDUSTRIAL DRIVE

Ship-To: train Training Database Site

Contents (Containers)
 Container ID:

Contents (Items)

Item: bx-0001 carton, lg
 Purchase Order: P0010000 Line: 1

Quantity: 100.0 Unit: EA Conv: 1.0000
 Site: train
 Location: 100
 Lot/Serial:
 Ref:
 Multi Entry: no

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-RP-090

Contents (Items) Frame

In this frame you register/record the items that are packed into the shipper or containers.

Field Definitions

Item

The item number being registered as contents of this shipper.

- There must be a detail record for the scheduled order and ship-to site with this item number

Purchase Order

The scheduled order number to which items recorded as contents of this shipper or container apply.

Line

The scheduled order line number applying to this item.

- This must be an existing line item in this the scheduled order

Quantity

The quantity of the item.

UM

The unit of measure (UM) of the item.

Conv

The conversion factor converting quantities stated in terms of the alternate UM back into terms of the item UM.

Site

Site code representing where the inventory is stored.

Location

Physical location where the inventory is stored.

Lot/Serial

The lot/serial number associated with the item.

- Usually <blank>, no lot/serial number required for the item

Ref

Lot reference number.

- Optional

5.5.5.5 – PO Shipper Maintenance: Multi Entry = Yes

Receipt Detail - Quantity: 100 EA				
Site	Location	Lot/Serial	Reference	Quantity
train	10			100.0

SS-RP-100

Multi Entry

Indicates if this transaction references multiple sites and locations, or multiple lot/serial numbers or lot reference numbers.

- If Yes, another screen displays allowing you to enter multiple lines for this transaction
- If No, the transaction is processed using information entered in the Contents (Items) frame

5.5.5.4 – PO Container Maintenance

PO Container Maintenance

User Menu Edit Queue Options Help

Supplier: 5001000 METAL SUPPLY COMPANY
Container ID: 1234 720 EAST COLLEGE AVENUE

Ship-To: 1000 MATERIAL REVIEW

Container Item: box box for 10-0040
Qty To Receive: 1.0
Site: 1000
Location: stores
Lot/Serial:
Ref:

This is subordinate to s1234.
Contents (container or item) exist.

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-RP-110

PO Container Maintenance

Menu Number 5.5.5.4

Use PO Container Maintenance to link items to containers used by your supplier to ship the items. Containers are not a required part of a shipper, but there are times when you need to keep track of them. For example, if the container has a significant value or if it needs to be returned. You can also use PO Container Maintenance to modify container item quantities (e.g., the actual shipment does not match the shipper).

- Usually containers are not a concern with supplier schedules

You can receive container information:

- Electronically as part of an ASN

- Along with the shipment (e.g., a packing list) to be entered manually
- From bar code readings of shipping labels

Note To return containers that have been received on a shipper, use Issues – Unplanned 3.7.

In the first frame you identify the supplier and assign a container ID. You can have the system assign a container ID or enter one.

The container you are identifying at this point is the parent container, the container holding the shipped items. In some cases this can also include other containers.

In the next frame you identify the ship-to location.

- The location where the container is being delivered

In the last frame you enter the container item information.

Field Definitions

Container Item

The item number of the container you are tracking.

Note Container item numbers need to be set up before you can create a item/container record. You set up the container item numbers in Item Master Maintenance 1.4.1.

Qty To Receive

The number of physical containers this container record represents.

- Typically this is one since you probably want to receive one box with a number of finished goods in it

Site

The site to which this container is being delivered.

- Defaults to the Ship-To site

Location

The location to which this container is being delivered.

Lot/Serial

The lot/serial number of the container.

Ref

The lot reference of the container.

Exercises



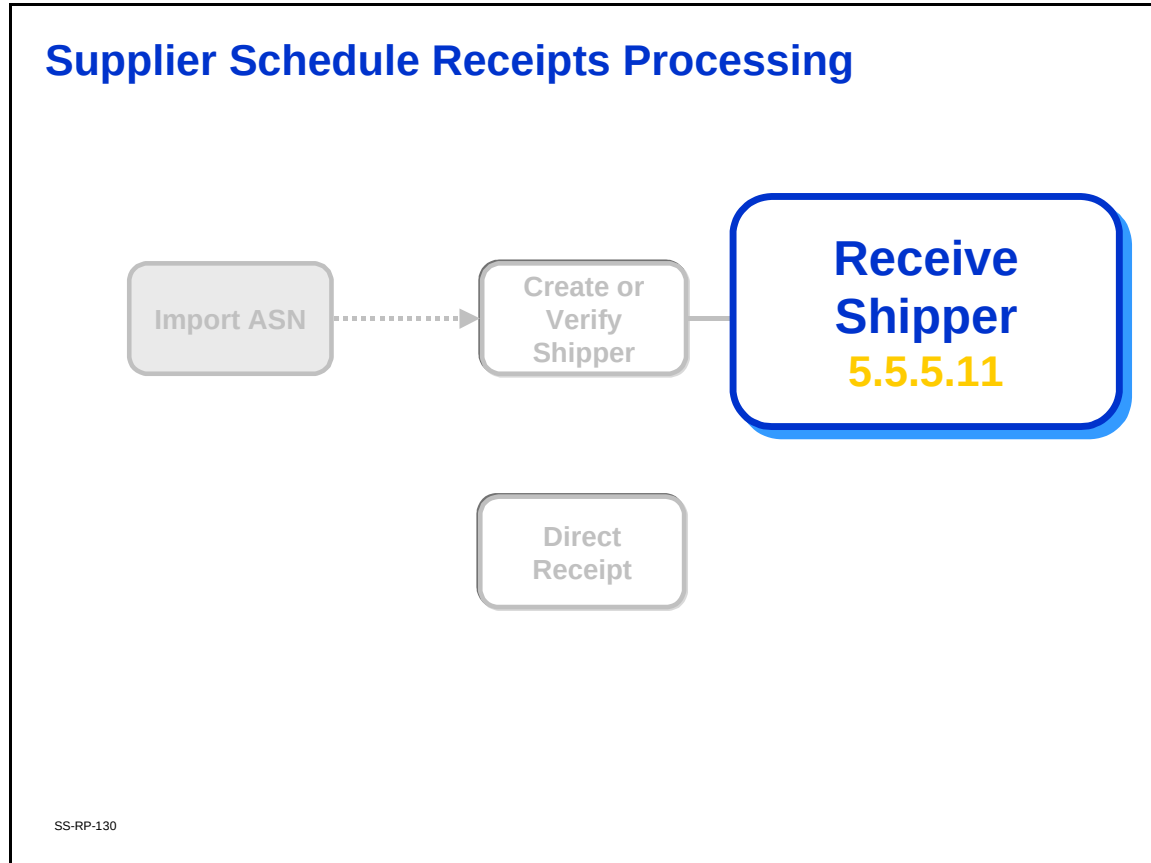
SS-RP-120

Important The data used in these exercises may not be the same as the data shown in the screen captures in this lesson. In an exercise, if a field is not listed, you can accept the default value or leave it blank.

Exercise: Receiving the Supplier Schedule

Description: You are going to receive the first shipment on your schedule order.

- 1 Enter your supplier. Use 100 for the Shipper ID and today's date for the Ship Date.
Use PO Shipper Maintenance, 5.5.5.5
- 2 Advance to the Contents (Items) frame. Receive a quantity of 100.



Receive Shipper

The last step in the receiving process is to receive and confirm the shipper. Receiving the shipper:

- Increases inventory
- Increases the cumulative received quantities
- Decreases net cumulative requirements
- Updates the accounts payable (AP) and GL accounts

5.5.5.11 – PO Shipper Receipt

PO Shipper Receipt

User Menu Edit Queue Options Help

Supplier: 50000000 Hydroxco Gas Processors Inc
 Shipper ID: cBX093 100 Foothill Blvd.

Effective: 02/26/96

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-RP-140

PO Shipper Receipt

Menu Number 5.5.5.11

Use PO Shipper Receipt to record that the supplier has fulfilled all or part of their commitment by delivering the ordered materials.

Field Definitions

Supplier

The ID of the supplier delivering the shipment represented by this shipper.

- Defaults to the last accessed shipper record

Shipper ID

The number identifying this shipper.

- Defaults to the last accessed shipper record

Effective Date

The effective date of the receipt.

- Defaults to the system date
- Specifies the effective date of the GL transaction to inventory
- Has no effect on inventory or cumulative balances:
 - Takes effect immediately

If this shipment exceeds the tolerance for a discrete order receipt, the system displays a warning.

You are prompted to please confirm the update.

Note If you need to correct a receiving error, use Purchase Order Receipts 5.13.1 and enter a negative amount. This will correct inventory and adjust the cum received for the schedule.



Important The data used in these exercises may not be the same as the data shown in the screen captures in this lesson. In an exercise, if a field is not listed, you can accept the default value or leave it blank.

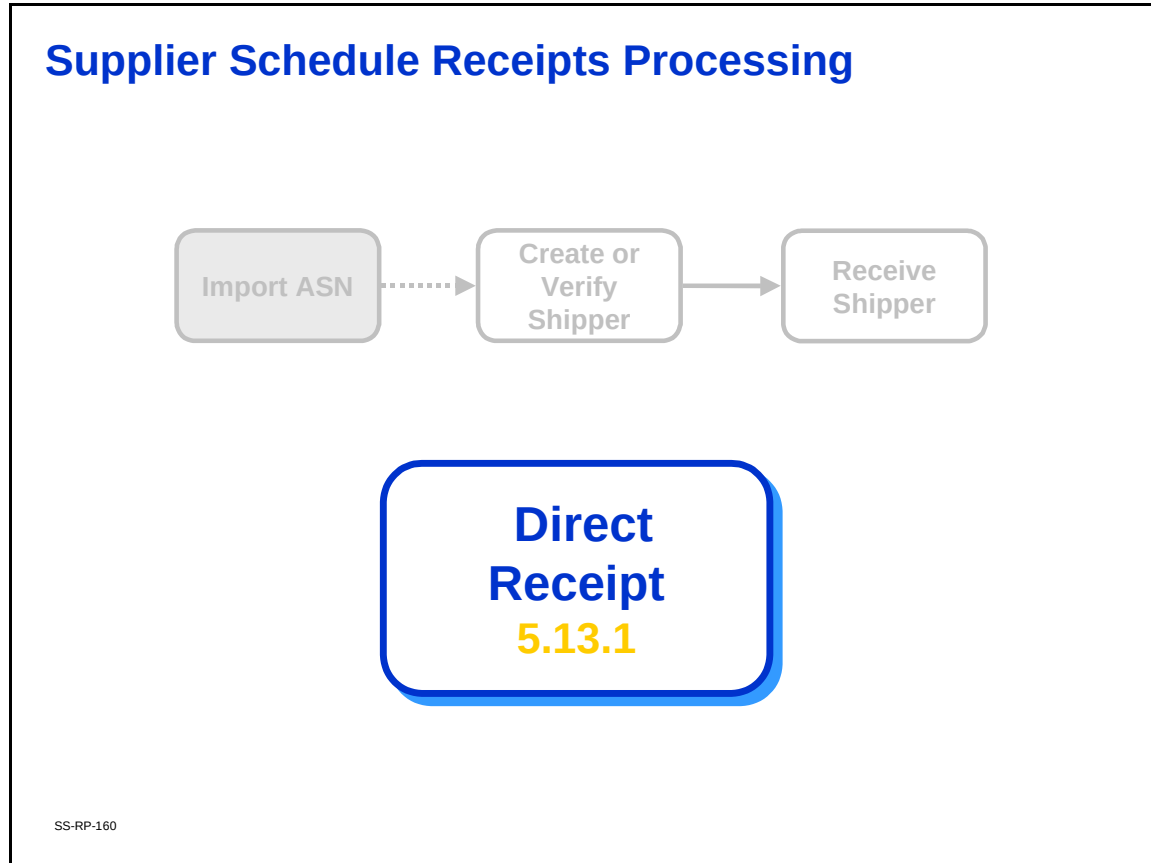


See in this training guide: *Workshops and Study Questions* on page 211 for more practice

Exercise: Receive Shipper

Description: You are now going to receive and confirm the shipper and check inventory.

- 1 You are going to receive and confirm the shipper. Let the Effective date default to today's date.
Use PO Shipper Receipt, 5.5.5.11
- 2 When the system prompts Please confirm update, choose Yes.
- 3 Print another copy of your schedule, this time take note of any differences.
Use Schedule Print, 5.5.3.8
- 4 Check to see if your item number has been received into inventory.
Use Inventory Detail by Item Browse, 3.2 or Inventory Detail by Site Browse, 3.3
- 5 Review the audit trail for the inventory transaction.
Use Transactions Detail Inquiry, 3.21.1



Direct Receipt

If you are not receiving ASNs or reading bar code labels and exploding containerized shipments, you can use the receiving function for the Purchase Order module. Cumulative quantities are updated, so there is no loss of functionality.

5.13.1 – Purchase Order Receipts

Order:	P0010000	Supplier:	5011000	Status:		Effective:	01/24/01
Packing Slip:						Move to Next Operation:	yes
Receiver:	DIXON CORPORATION					Receive All:	yes
						Comments:	no
						Ship Date:	

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-RP-170

Purchase Order Receipts

Menu Number 5.13.1

Use Purchase Order Receipts to enter the receipt of your shipment directly into inventory.

Header Frame

In this frame you identify the schedule order shipment being received.

Order

The schedule order whose shipment is being received.

Supplier

Displays the supplier associated with the scheduled order.

Status

Status of line items. Display only field.

- <blank> indicates the line item is open
- C indicates the line item is closed
- X indicates the line item is cancelled.

Packing Slip

Supplier packing slip number.

- Optional

This field may be required if ERS Processing is set to Yes in the Purchasing Control File 5.24. Whether or not it is required is determined by the setting of the ERS Packing Slip Error field in the Accounts Payable Control File 28.24. If the ERS Packing Slip Error field is set to:

- Yes, then the ERS Processor will not create a voucher if the packing slip number is missing
 - An error displays in the output report
- No, if the packing slip number is missing then the ERS Processor creates a voucher using the Receiver number as the invoice number.

Receiver

A number identifying the receiver associated with the items being received.

- You can assign a receiver number or have the system assign one

Effective

Receipt effective date, which determines when the Inventory account is updated.

- Defaults to the system date

Note If Verify GL Accounts is set to Yes in the System/Account Control File 36.1, the system verifies that the effective date falls within an open GL fiscal period.

Move to Next Operation

Determines if items on subcontract lines are moved automatically into the queue of the next work order operation.

- If Yes, subcontract items are moved to the next operation
 - Default
- If No, subcontract items remain at the current operation must be manually moved to the next operation using Operation Move Transaction

Receive All

Indicates if the shipment was received complete.

- If Yes, the system sets the quantity to receive equal to the quantity open on each scheduled order line:
 - This does not include subcontracted line items. You need to enter those quantities manually
- If No, quantity to receive defaults to zero (0) for each scheduled order line item
 - Must be entered manually

Comments

Determines if you can enter transaction comments.

- If Yes, the Transaction Comments screen displays allowing you to enter additional information
- If No, you are not given the opportunity to enter comments
 - Default

Ship Date

The date the supplier shipped the items.

If ERS Processing is set to Yes in the Purchasing Control File 5.24, the system uses the ship date to determine the effective price list when all of the following are true:

- A price list is specified on the scheduled order
- The ERS Price List Option for the line is 2

If the ERS Voucher Date Option field is set to 1 in the Accounts Payable Control File 28.24, the ERS Processor uses the ship date as the voucher date on all generated vouchers.

- If it is not set to 1, ERS Processor uses the receipt effective date

5.13.1 – Purchase Order Receipts: Line Item Detail Frame

Purchase Order Receipts

User Menu Edit Queue Options Help

Order: P0010000 Supplier: 5011000 Status: Pack Slip:

Ln	Item Number	UM	Qty Open	UM	Receipt Qty	UM	Project	Due	T
1	bx-0001	EA	100.0	EA	100.0	EA			

Line: 1 UM: EA Site: train Loc: 100

Quantity: 100.0 ID: Lot/Ser:

Packing Qty: 100.0 WD Op: 0 Ref:

Cancel B/O: no Supplier Lot:

Item Number: bx-0001 Multi Entry: no Chg Attribute: no

Supplier Item: BOX100 Cmmts: no

F1=Help F2=Go ESC=End Ctrl-X=Cut Ctrl-C=Copy Ctrl-V=Paste

SS-RP-180

Line Item Frame

The top frame displays the line items and quantities open on the scheduled order. In the lower frame you enter specific line item detail.

- You can receive against open line items only
 - Open line items have a nonzero quantity open (Qty Open) and a blank line-item status (Status)
- You cannot receive against line items that are closed or cancelled (Status C or X)

Field Definitions

Line

Number identifying an open line on the scheduled order.

- When you enter the line number, the Item Number, Supplier Item, UM, Site, and Loc fields display the information for the entered line number

Note The Item Number and Supplier Item fields are display only.

Quantity

The quantity being received for this line item.

- Default depends on the setting of the Receive All field in the header
 - If Yes, quantity defaults from the open quantity on the scheduled order line
 - If No, quantity defaults to zero (0) and must be manually entered

Packing Qty

Quantity listed on the packing list.

Cancel B/O

Determines how the system handles any unshipped quantities.

- If Yes, unshipped quantity is cancelled
 - Not shipped at a later date
 - Quantity ordered is reduced to match the quantity actually shipped
- If No, unshipped quantity remains open on backorder
 - Shipped at a future date

UM

UM for the quantity received.

ID

For a subcontract line item (receipt type S), the work order or cumulative order lot ID associated with the subcontracted service.

OP

For a subcontract line item (receipt type S), the work order operation associated with the subcontracted service.

Site

Site where the item was received.

- Defaults from the scheduled order, but can be overridden unless Multi Entry is set to Yes

Location

The location where the item was received.

Lot/Ser

The lot/serial number of the items being received.

Ref

The lot reference number for the items received.

Supplier Lot

The supplier lot or serial number of the items being received.

- Reference only

Multi Entry

Indicates if this transaction references multiple locations, lot/serial numbers, and lot reference numbers.

- If Yes, another screen displays allowing you to enter multiple lines for this transaction
- If No, the line item is processed using information entered
 - Default

Chg Attributes

Determines if you can modify the default inventory attributes.

- If Yes, a Receipt Attributes screen displays allows you to enter:
 - Assay%

- Grade
- Expire Date
- Inventory Status
- Active settings
- If the new values are to be used as the default attributes for all receipts on this scheduled order or line
- If No, line item is assigned the default inventory attributes
 - Default

Comments

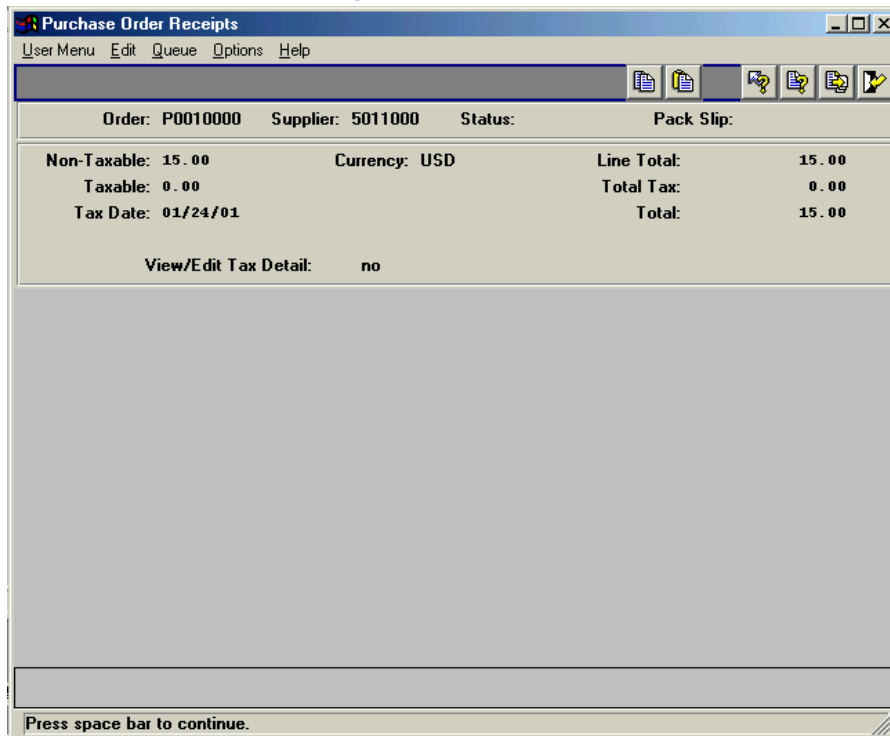
Determines if you can enter transaction comments.

- If Yes, the Transaction Comments screen displays allowing you to enter additional information
- If No, you are not given the opportunity to enter comments
 - Default

After you complete entering all the line items, the system asks if you want to display the purchase order lines being received. This gives you the opportunity to review the receipt information. You are then asked to verify if all information is correct. If it is not, you can enter No and go back and make the necessary corrects. If it is, the trailer frame displays.

Note You can process more than one line item in a single transaction. If the cumulative quantity received for a scheduled order line exceeds the maximum order quantity for that line, the system displays a warning message.

5.13.1 – Purchase Order Receipts: Trailer Frame



Order: P0010000 Supplier: 5011000 Status: Pack Slip:			
Non-Taxable:	15.00	Currency:	USD
Line Total:	15.00	Total Tax:	0.00
Taxable:	0.00	Total:	15.00
Tax Date:	01/24/01		
View/Edit Tax Detail: no			

Press space bar to continue.

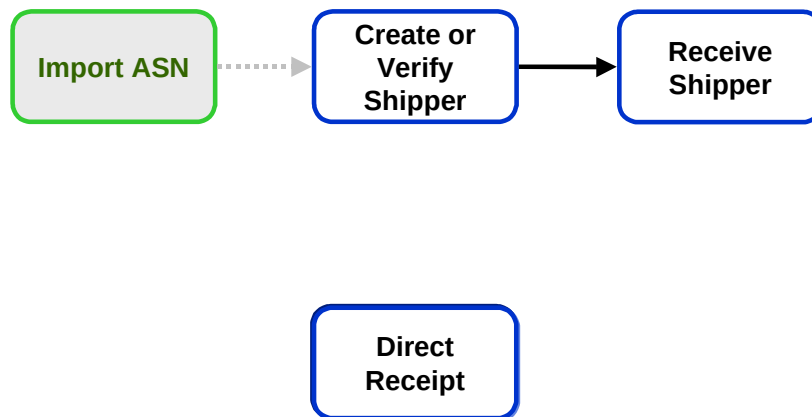
SS-RP-190

Trailer Frame

The last frame displays tax and pricing information along with the currency used on the scheduled order.

- Display only

Supplier Schedules Receipts Processing Summary



SS-RP-200



Course Overview

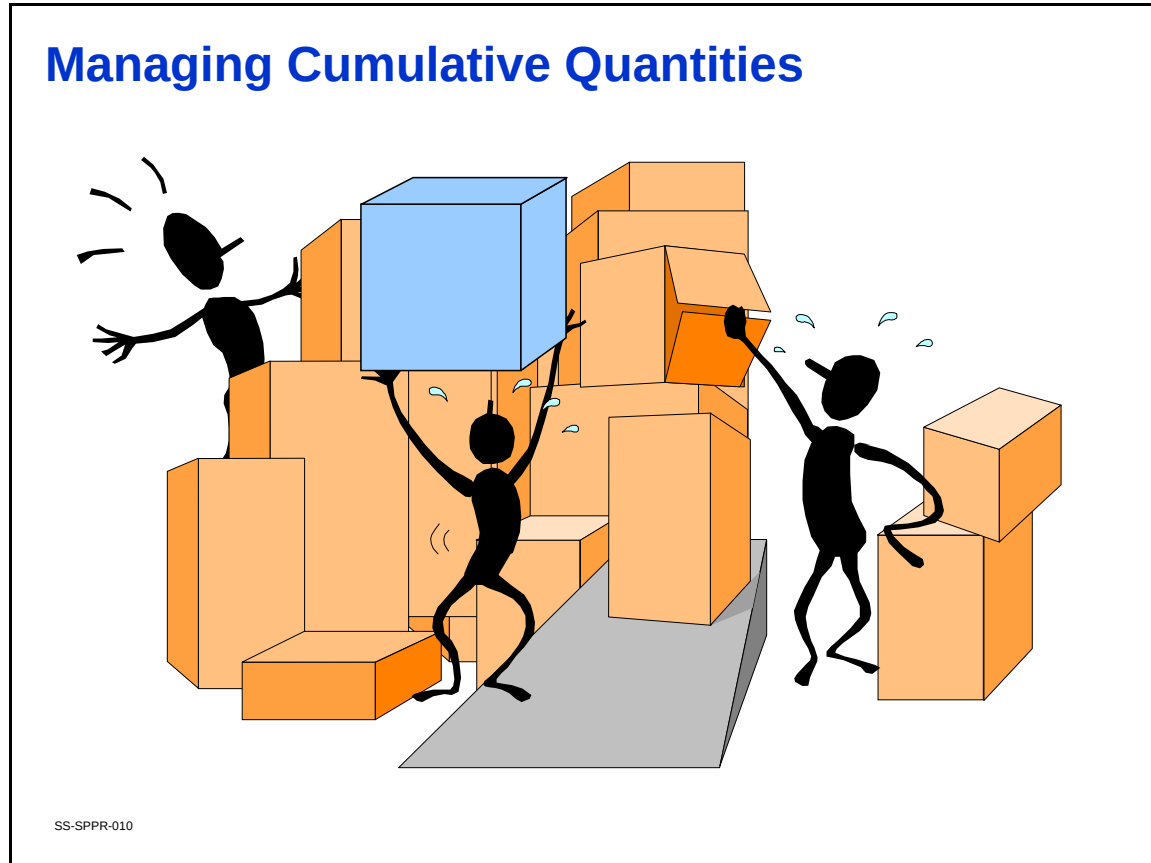
- ✓ Introduction to Supplier Schedules
- ✓ Business Considerations
- ✓ Set up Supplier Schedules
- ✓ Process Supplier Schedules
- ✓ Process Supplier Schedules Receipts

SS-RP-210

CHAPTER 6

Special Processes



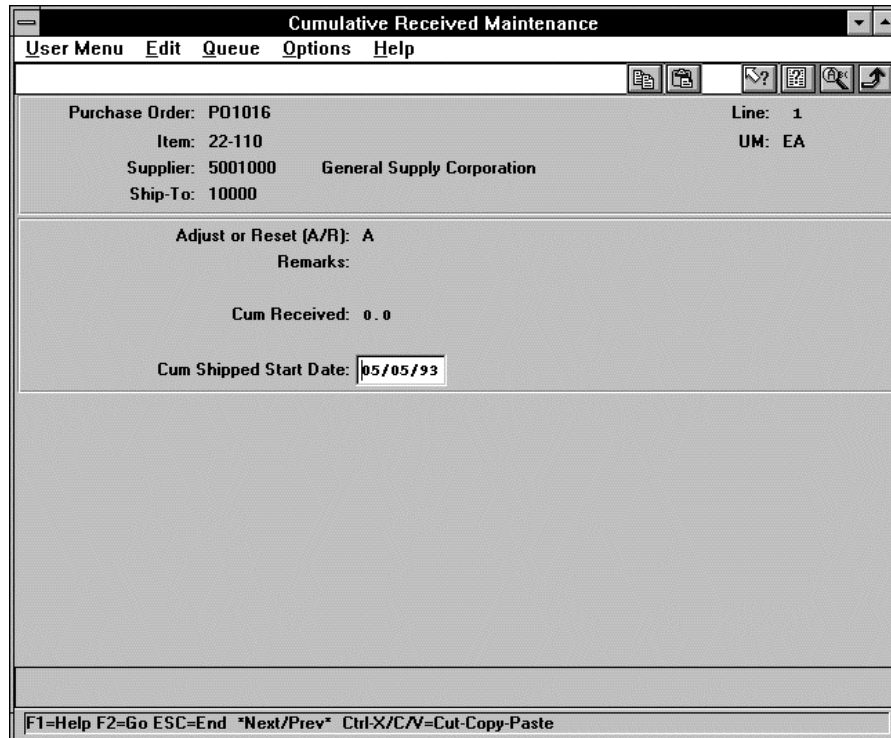


Managing Cumulative Quantities

MFG/PRO gives you the ability to:

- Modify cumulative receipt quantities for a scheduled order
- Reset an entire scheduled order with a new cumulative start date and zero quantity
- Reset the cumulative totals for one or more supplier schedules

5.5.5.13 – Cumulative Received Maintenance



Cumulative Received Maintenance

User Menu Edit Queue Options Help

Purchase Order: P01016 Line: 1
 Item: 22-110 UM: EA
 Supplier: 5001000 General Supply Corporation
 Ship-To: 10000

Adjust or Reset (A/R): A
 Remarks:
 Cum Received: 0.0
 Cum Shipped Start Date: 05/05/93

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-SPPR-020

Cumulative Received Maintenance

Menu Number 5.5.5.13

Use Cumulative Received Maintenance to modify cumulative received quantity for the supplier schedule line or reset an entire scheduled order with a new Cum Start date and a zero (0) quantity.

- New cumulative quantity is transmitted on the next schedule release

There are two frames.

In the first frame you select the scheduled order by specifying the:

- Purchase Order (scheduled order number)
- Item

- Supplier
- Ship-To
- Line

In the second frame you designate how you want to modify the cumulative received quantity.

Note It is recommended that this program be password controlled.

Field Definitions

Adjust or Reset (A/R)

Determines if the cumulative received quantity is adjusted or reset to 0.

- If A, the cumulative received quantity is changed:
 - You will be asked to provide a new cumulative received value (Cum Received) and a new cumulative start date (Cum Shipped Start Date)
 - Default
- If R, the cumulative received quantity is reset to 0:
 - You will be asked to provide a new cumulative start date (Cum Shipped Start Date)

Remarks

Enter remarks or comments associated with this transaction.

- Reference only

Cum Received

The adjusted cumulative quantity received for this scheduled order line item.

Cum Shipped Start Date

The starting date of the cumulative quantity.

5.5.5.14 – Cum Received Reset to Zero

Cum Received Reset to Zero

User Menu Edit Queue Options Help

Purchase Order: P01016 To:
 Item Number: 002 To:
 Supplier: 10000000 To:
 Ship-To: 10000 To:
 Buyer: To:

Update: no
 Cum Shipped Start Date: 02/26/96
 Remarks:

Sort Option: 1 1 - By Ship-to, Supplier, Item, PO
 2 - By Item, Ship-to, Supplier, PO
 3 - By PO, Item

Output: printer
 Batch ID:

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-SPPR-030

Cum Received Reset to Zero

Menu Number 5.5.5.14

Use Cum Received Reset to Zero to reset the cumulative totals for supplier schedules. You can reset one supplier schedule or a range of supplier schedules. The reset process generates a report showing which scheduled orders were reset and what their cumulative received totals were before being reset.

- You can run the reset process in batch mode

Field Definitions

Update

Determines if the cumulative totals for the selected supplier schedule orders is reset to 0.

- If Yes, program runs in update mode and changes the selected supplier schedule orders in the database
- If No, program runs in report only mode, cumulative totals are not reset

Note Both options generate an audit report. By selecting No, you can review the selected scheduled orders before actually making any changes. Once a scheduled order's cumulative totals have been reset, you cannot undo the reset process.

Cum Shipped Start Date

The new date to start accumulating cumulative quantities.

- Defaults to the system date

Remarks

Enter remarks or comments associated with this transaction.

- Reference only

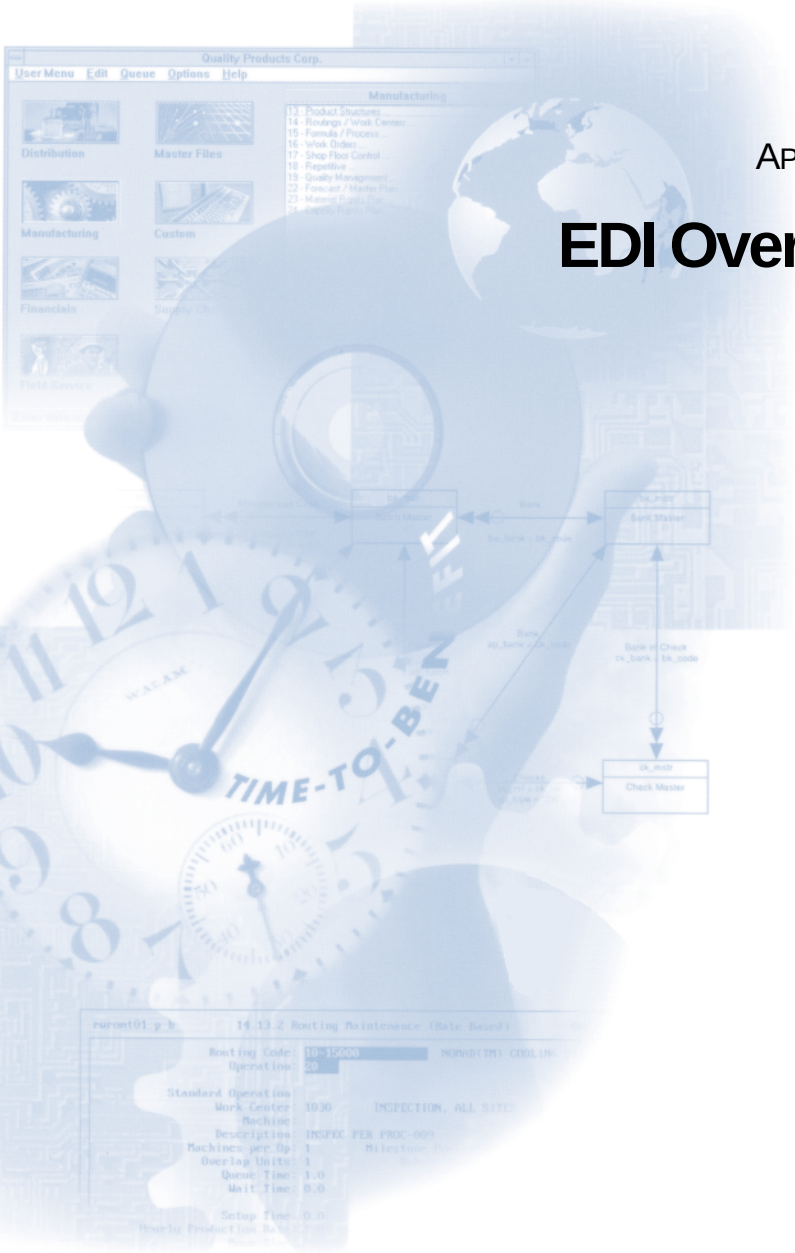
Sort Option

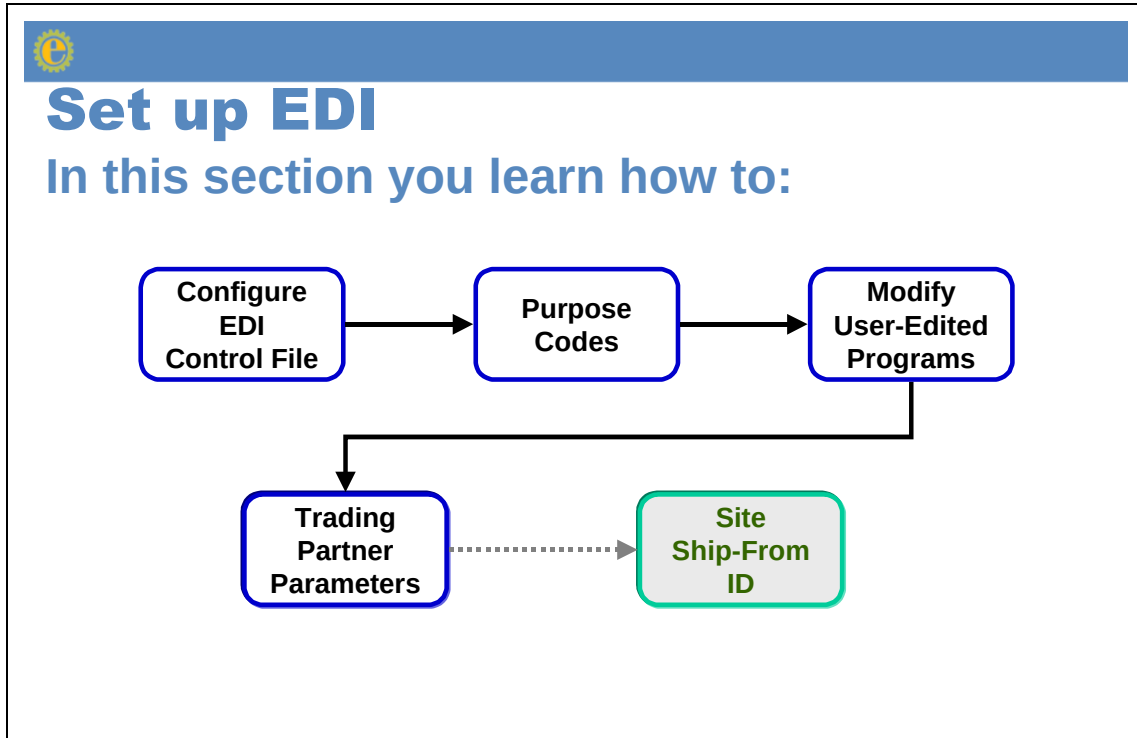
Determines the sequence in which information prints on the report. You have three options

- 1 – By Ship-to, Supplier, Item, PO
 - Default
- 2 – By Item, Ship-to, Supplier, PO
- 3 – by PO, Item

APPENDIX A

EDI Overview





This illustration is a suggested setup sequence of master files for EDI which is based on information that flows from one master file to another and prerequisites that need to be accomplished before setting up a file. Reading the illustration:



Boxes with solid lines are required to set up EDI and are covered in this course.



Shaded boxes reflect optional steps, but are covered in this course.

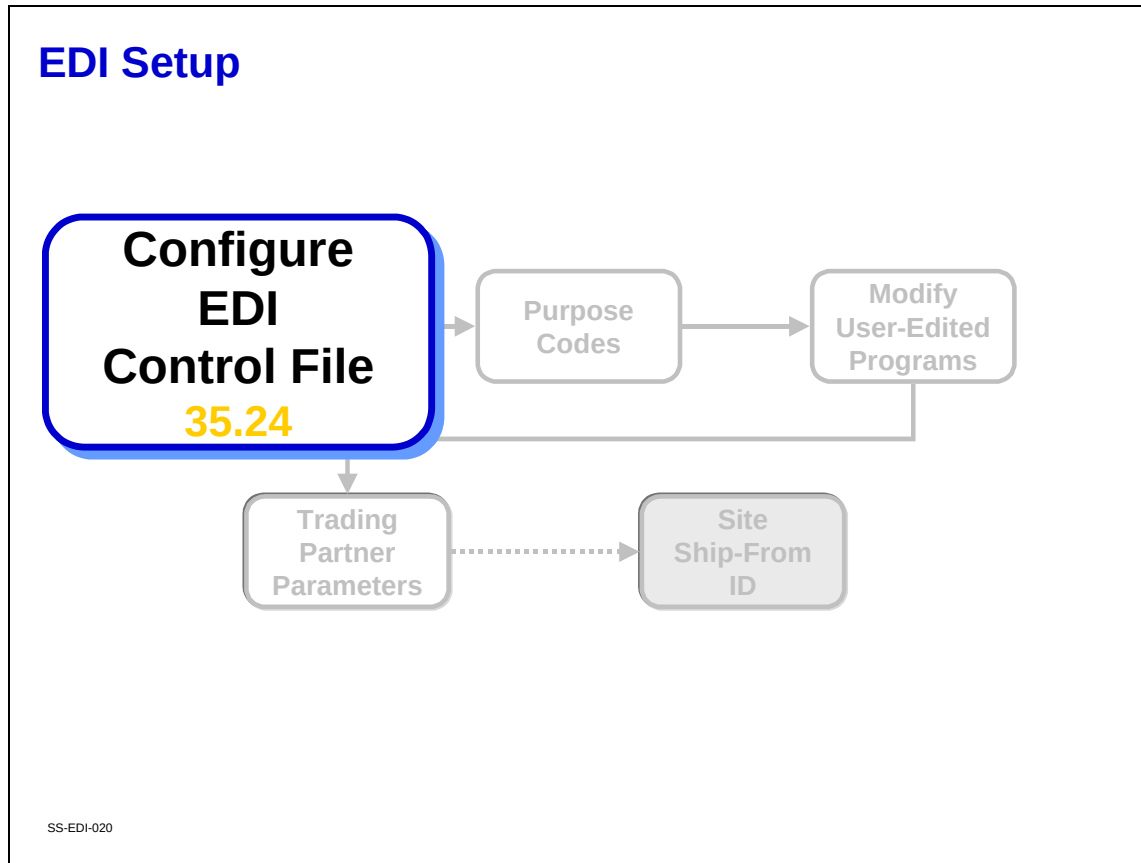


Boxes with dotted lines are required, but are covered at length in another course.

Before proceeding to set up EDI information, you must have already set up:

- Supplier addresses using Supplier Maintenance 2.3.1
- Item information using Item Master Maintenance 1.4.1

If you are using supplier item cross-references, they must also be set up. You do that using Supplier Item Maintenance 1.19.



Configure EDI Control File

EDI is the paperless (electronic) exchange of trading documents (ASNs, invoices, etc.) between computers using standard document formats. MFG/PRO uses information from the EDI Control File 35.24 when importing and exporting these trading documents.

35.24 – EDI Control File

The screenshot shows the 'EDI Control File' window with the following fields and options:

- Import from File or Process:**
- Import File/Process Name:**
- Export to File or Process:**
- Export Directory/Process Name:**
- Use Auto File Naming:** ☒ yes
- Export File Name:**
- Export Auto File Prefix:**
- Export Auto File Sequence:**

A callout box with the text "System automatically names export file" has arrows pointing to the 'Use Auto File Naming' checkbox and the 'Export Auto File Prefix' and 'Export Auto File Sequence' fields.

SS-EDI-030

EDI Control File

Menu Number 35.24

Use EDI Control File to define where and how EDI document importing (receiving) and exporting (sending) occurs. You also have the option of automatically naming export files.

Field Definitions

Import from File or Process

Specify if data is being imported from a file or a process.

Note Always enter File to retrieve data from the MFG/PRO database. You can only use the Process option with UNIX systems.

Import File/Process Name

If importing from a file, enter a filename.

- The system locates the file and starts reading the data

If importing from a process, enter the process name.

- The system looks for the executable program or script, starts it as a separate process, and begins reading its standard output

Export to File or Process

Specify how data is being exported, by a file or by a process.

Note You can only use the Process option with UNIX systems.

Export Directory/Process Name

If exporting from a file, enter a filename.

- The system locates the file and starts writing data to the file

If exporting from a process, enter the export directory/process name (e.g., /users/met/imp_sub1).

- The system looks for the executable program or script and starts it as a separate process

Use Auto File Naming

Enter Yes to have the system generate a filename.

- A system generated filename consists of a sequence number (Export Auto File Sequence) and a prefix (Export Auto File Prefix)

Enter No to enter your own filename.

Export File Name

Enter the filename you wish use for the export file.

Note You can only access this field if Use Auto File Naming is set to No.

Export Auto File Prefix

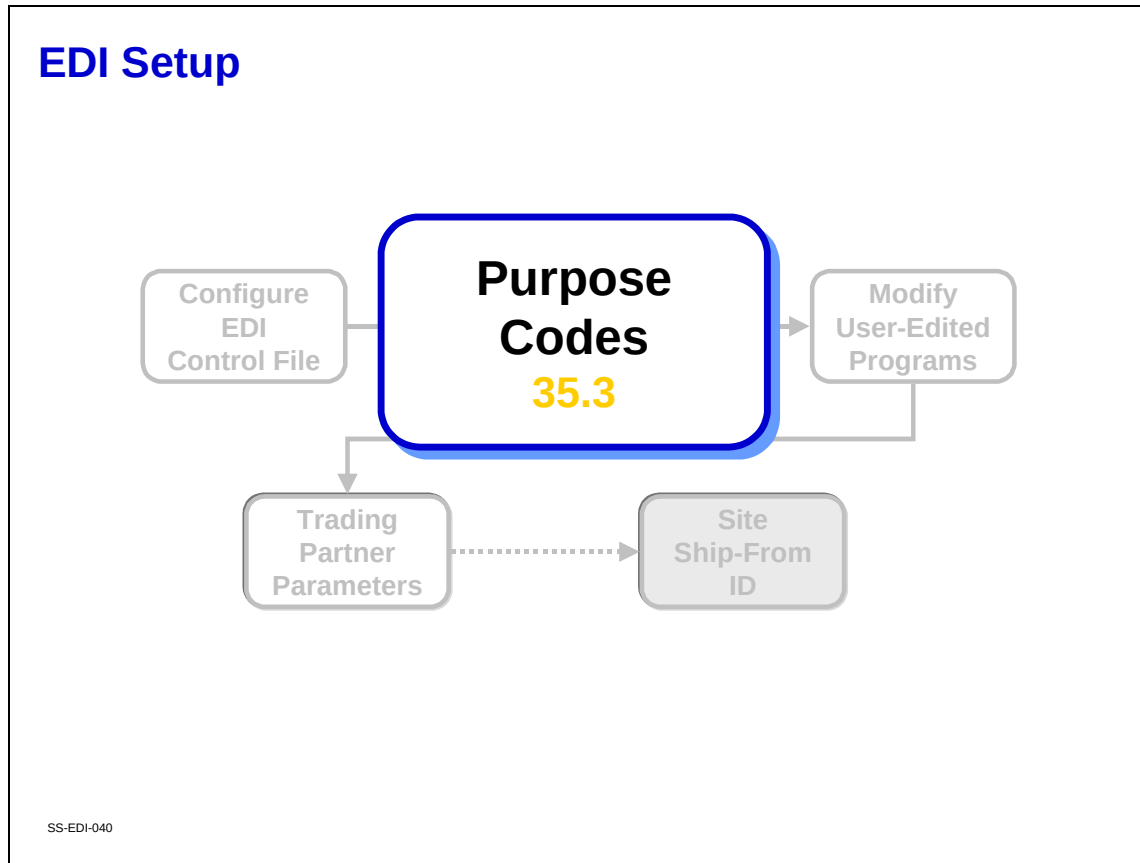
You can enter a prefix (up to two digits) or accept the default.

Note You can only access this field when Use Auto File Naming is set to Yes.

Export Auto File Sequence

You can enter a sequence number or accept the default.

Note You can only access this field when Use Auto File Naming is set to Yes.



Purpose Codes

Purpose codes are two character codes (e.g., 01) found on EDI schedules. These are known as external purpose codes. They indicate how the trading partner wants you to process the schedule (e.g., add, change).

Note A trading partner is any company you are selling to (customer) or buying from (supplier).

In order for MFG/PRO to utilize the external purpose code, you create a cross-reference between the purpose code and a program used to load the schedule into the database for processing. You can use either the standard programs provided with MFG/PRO or you can write your own custom programs.

35.3 – Purpose Code Maintenance

The screenshot shows the 'Purpose Code Maintenance' window. It has a menu bar with 'User Menu', 'Edit', 'Queue', 'Options', and 'Help'. Below the menu bar is a toolbar with icons for file operations and help. The main area contains two sections of input fields. The first section, enclosed in a red box and labeled 'Key fields' with a red arrow, includes: 'Site:', 'Address:', 'EDI Standard Version:', 'Transaction Set:', 'I/O:', and 'Ext Purpose Code:'. The second section, enclosed in a green box and labeled 'Use to provide additional information on schedule reports' with a green arrow, includes: 'Int Purpose Code:', 'Execution File:', 'Execution Parameter:', 'Description:', and 'Comments:'. A 'List Type:' label is positioned to the right of the first section. At the bottom of the window, a status bar displays the keyboard shortcuts: 'F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste'.

SS-EDI-050

Purpose Code Maintenance

Menu Number 35.3

Use Purpose Code Maintenance to define and maintain purpose code cross-references. You can create cross-references using one or more of the following key fields:

- Site
- Address
- EDI Standard Version
- Transaction Set
- Inbound or Outbound
- External Purpose Code

By using one or more of the key fields, you can create cross-references that range from very general to very specific. You can create any number of cross-references for an external purpose code.

Field Definitions

Site

Site code defined in Site Maintenance 1.1.13

Address

Supplier code defined in Supplier Maintenance 2.3.1

- If used, the system displays the List Type

EDI Standard Version

Version of the EDI standard used for the schedule (e.g., ANSI X12).

Transaction Set

EDI transaction type such as 830 (Planning Schedule) or 862 (Shipping Schedule).

I/O

Options are I (inbound) or O (outbound).

Note Currently, only inbound schedules are supported.

External Purpose Code

The two character external purpose code contained in the schedule.

- You can validate external purpose codes in Generalized Code Maintenance 36.2.13
 - Field name is edi_ext

Internal Purpose Code

A user-defined purpose code.

- Internal purpose codes are for reference only and frequently used to provide more information (e.g., add, delete, change, etc.)

- Set up internal purpose codes by using Generalized Codes Maintenance
 - Field name is edi_int

Execution File

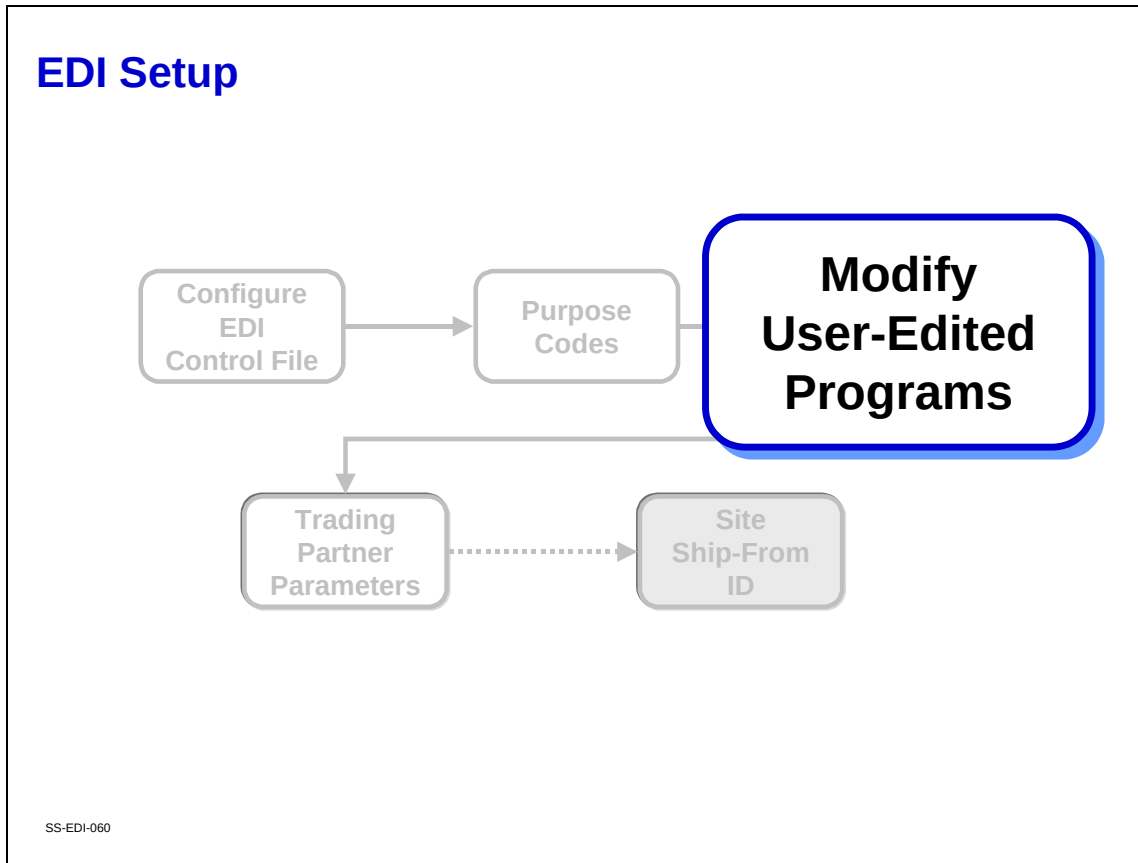
Required entry. The name of the program to be executed when schedules matching the key field values are received. The MFG/PRO standard programs and their functions are listed below.

Program	Function
edscdel.p	Processes schedules with a delete functional purpose code. The schedule is not actually deleted from the database. It is inactivated by removing its release ID.
edscadd.p	Processes schedules containing an add, original, change, and replace purpose code.
edsctest.p	Processes incoming schedules without updating the database. The procedure is typically used during a testing phase when implementing a new EDI trading partner. The procedure executed is the same as the add procedure, but the changes are not made in the database.

Note If you write your own custom execution programs, they must be located in a directory within MFG/PRO's search path.

Execution Parameter

Currently not being used.



Modify User-Edited Programs

User-edited programs are sample import and export interface programs. To use them, you need to modify the programs for your specific trading partners and your specific EDI enabling package. To customize or modify the user-edited program, first you make a copy of the program, then you can:

- Create a specific program for use with a specific trading partner
- Create a single program for all trading partners
 - Best when there is only a few trading partners
- Create different versions of the programs that meet specific requirements
 - Then, use one program for several trading partners with similar requirements

When importing or exporting documents, MFG/PRO uses a standard flat file format. The flat file format is contained within the code of the user-edited program. Flat file data can be:

- Passed to and received from third-party EDI-enabling software
- Translated to and from various EDI standard formats
- Transmitted to and received from trading partners

If you want to change the flat file format/definition to change the data elements read, you need to modify the user-edited program. You can modify the program to read additional data elements or to change the position of where existing data elements are read.

The system uses a user-edited program for each document type it imports or exports.

- When exporting, the user-edited program extracts the data from the database and outputs it in a flat file format
- When importing, the user-edited program parses (splits up) the incoming flat file data and passes it to a document loader subprogram

Export Programs



1. Specify selection criteria.
2. System selects data.
3. Data output to flat file.

SS-EDI-070

Export Programs

There is a separate MFG/PRO export program for each EDI document type (e.g., ASN, invoice, etc.). Each export program follows these steps:

- 1 Accepts a set of selection criteria from the user.
- 2 Using the selection criteria, selects the documents from the database.
- 3 Calls a user-edited program to output the document(s) in the required flat file format.

The user-edited programs, and the export programs calling them, are shown below.

Menu Name	Export Program	User-Edited Program
ASN Export 35.5	edexasn.p	edusexsn.p
Invoice Export 35.8	edexinv.p	edusexiv.p
PO Ack Export 35.11	edexack.p	edusexak.p
Purchase Order Export 35.15	edexpo.p	edusexpo.p
Supplier Schedule Export 35.18	edexsch.p	edexscha.p or edexschb.p

Note The user-edited program for supplier schedules depends on the type of schedule.

The user-edited programs use the following document export utility programs to output the data.

Utility Program	Task Performed
edputch.i	Inserts the contents of a character variable in a specified location in the line data record. For example, extracts the field value FRP from the field schd_user1 from the schedule detail record sch_det.
edputnum.i	Inserts the contents of a numeric variable in a specified location in the line data record.
edputdt.i	Inserts the contents of a date variable in a specified location in the line data record.
edputnx.i	Appends the specified field separator character and the contents of the specified variable to the end of the line data record.
edputln.i	Writes the completed line data record to the transmission file.

The first four utility programs compose the selected data in the proper format.

- Each data element must be in a specific position in a character variable
- The specific positions in the character variable string become the specific positions in the flat file once the data is written to the flat file

The last utility program, edputln.i, writes each line to the flat file as it is completed.

35.13 – Document Import

The screenshot shows the 'Document Import' window with the following fields and annotations:

- Address:** 0100
- To:** 0100
- Document Type:** (empty)
- To:** (empty)
- Document ID:** (empty)
- To:** (empty)
- Import from File/Process:** Process
- Import File/Process Name:** /users/qad/edi/0100.edi
- Report Detail/Summary:** Detail
- Update:** yes (highlighted with a green box and an arrow pointing to it with the text 'Determines if schedule is to be made active')
- Output:** (empty)
- Batch ID:** (empty)

A blue box on the left contains the text 'Defaults from EDI Control File 35.24' with an arrow pointing to the 'Import from File/Process' field.

At the bottom of the window, it says 'Enter data or press ESC to end.'

Document Import

Menu Number 35.13

Use Document Import to import all document types. When importing documents, the system follows these steps:

- 1 Accepts selection criteria from the user, including the name of the flat file to process.
- 2 Calls the user-edited program edusim.p to determine the types of documents in the flat file.
- 3 For each document type, calls the user-edited program specific to the document type. The user-edited program:
 - a Parses data values from the flat file.
 - b Calls the appropriate document loader program (i.e., document gateway program).

- c Passes the parsed data values to the document loader program.
- 4 The document loader program validates that the documents to be added to the MFG/PRO database are properly formatted.
- If a document has errors, it is either partially added to the database or not added at all
 - Errors are displayed in the Document Import report

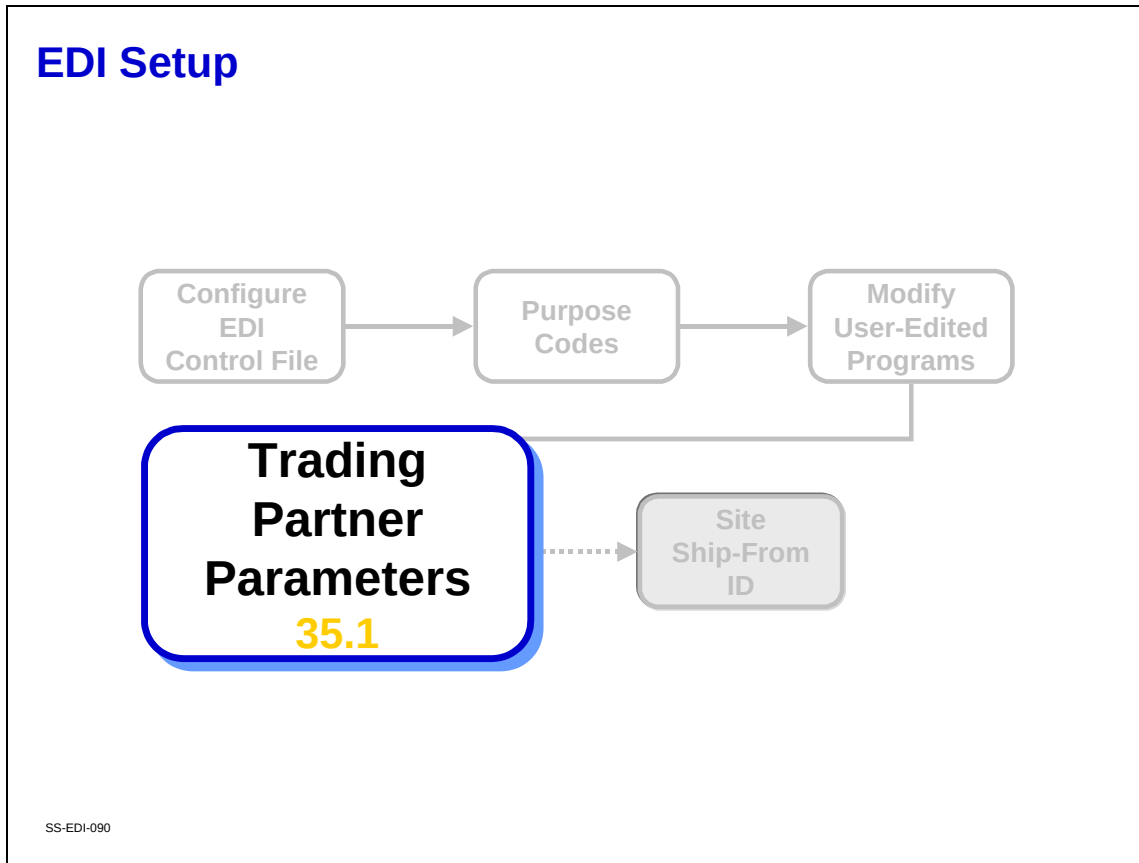
The user-edited programs for each document type are listed below.

Document Type	User-Edited Program
Remittance Advice	edui820.p
Customer Planning Schedule	edui830.p
Customer Shipping Schedule	edui862.p
Purchase Order (buyer to seller)	edui850.p
Purchase Order Acknowledge (seller to buyer)	edui855.p
Purchase Order Change (buyer to seller)	edui860.p
Purchase Order Change Acknowledge/Request (seller to buyer)	edui865.p
Advance Ship Notice (ASN)	edui856.p

The user-edited programs use utility programs to read and extract data from the incoming flat-file data. These utility programs are listed below.

Utility Program	Task Performed
edgetln.i	Reads a line of character data from the transmission file to a line data record.
edgetch.i	Extracts a character variable such as RUSH from a specified location in the line data record and inserts it in a specified program variable such as schd_reference.
edgetnum.i	Extracts a numeric variable from a specified location in the line data record and inserts it in a specified program variable.
edgetdt.i	Extracts a standard YYMMDD format date from a specified location in the line data record, converts it to a PROGRESS format date, and inserts it in a specified program variable.
edcpd.p	Extracts a customer period identifier from the line data record, converts it to a PROGRESS format date, and inserts it in a specified program variable.
edparse.p	Extracts a sequence of data values from the line data record and inserts the entire sequence into a specified program variable, fld. It then sets another program variable, fld_ct, to the number of data values placed in the fld variable.

You have the option of printing a detail report or a summary report. Documents successfully processed appear on both types of reports.



Trading Partner Parameters

An EDI trading partner is any company you communicate with using EDI. For each EDI trading partner you need to set up parameters for the system to use when communicating with them. These parameters establish a link between the trading partner and how their EDI documents are processed.

35.1 – Trading Partner Parameters Maintenance

Trading Partner Parameters Maint

User Menu Edit Queue Options Help

Address: 000005 CIM load test cust. List Type: customer

Trading Ptnr Interface ID:

Trading Ptnr EDI ID:

EDI Standard: **Reference only**

EDI Standard Level:

Export Document Control

Print Inv hist:	yes	EDI Inv Hist:	no
Print PO:	yes	EDI PO:	no
Print Schedules:	yes	EDI Schedules:	no
Fax Schedules:	no	EDI ASNs:	no
		EDI PO Ack:	no

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

Trading Partner Parameters Maintenance

Menu Number 35.1

Use Trading Partner Parameters Maintenance to define parameters which determine:

- Trading partner specific EDI relationship and standards
- Document transmission protocols
- ASN header information

There are four frames of information.

- In the header frame you define the trading partner specific EDI relationship and standards
- In the second frame you define how documents will be handled for this trading partner
- In the third frame you define additional header values to be included in all export functions
- In the fourth frame you define the additional ASN header information

Header Frame

Field Definitions

Address

Trading partner's address code as set up in MFG/PRO.

Trading Partner Interface ID

- You must enter an ID to enable EDI
- Identifies the trading partner to your EDI enabling package:
 - On export, tells which trading partner to send the document to
 - On import, tells which trading partner sent the document

Trading Partner EDI ID

- Use depends on the Trading Partner Interface ID:
 - If the interface ID is unique to the documents you are transmitting or receiving (e.g., customer address and ship-to address are identical), the EDI ID may not be required
 - If the interface ID is used for several ship-to addresses for a single customer or multiple ship-from addresses for a single supplier, the EDI ID is required to differentiate between them
- Identifies a particular address for the trading partner:
 - On export, tells the enabling package which trading partner to send the documents to
 - On import, tells the enabling packing which trading partner sent the documents

Note For a trading partner having multiple ship-to addresses, you need to set up an address cross-reference for each one with which you have an EDI relationship. Each ship-to address can have the same Trading Partner Interface ID, but each must have a different Trading Partner EDI ID.

EDI Standard

The method being used to format the documents, for example, ANSI X12, ODETTE, etc.

EDI Standard Level

The version of the EDI standard being used, for example, 1, 2, 3, etc.

35.1 – Export Document Control Frame

Trading Partner Parameters Maint

User Menu Edit Queue Options Help

Address: 000005 CIM load test cust. List Type: customer

Trading Ptnr Interface ID:
Trading Ptnr EDI ID:
EDI Standard:
EDI Standard Level:

Export Document Control

Print Inv hist:	yes
Print PO:	yes
Print Schedules:	yes
Fax Schedules:	no

EDI Inv Hist:	no
EDI PO:	no
EDI Schedules:	no
EDI ASNs:	no
EDI PO Ack:	no

F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-EDI-110

Export Document Control Frame

The Export Document Control frame defines the defaults used by the system for managing and transmitting EDI documents.

This is where you implement the trading policy you have with the trading partner. Each field allows or disallows a type of document processing.

- For a customer, you would:
 - Select how you manage invoices internally (Print Inv hist)
 - Determine if you transmit invoices and ASNs by EDI (EDI Inv Hist, EDI ASNs)

- For a supplier you would:
 - Select how you manage purchase orders and supplier schedules (Print PO, Print Schedules)
 - Determine if you fax schedules (Fax Schedules)
 - Determine if you transmit purchase orders and supplier schedules by EDI (EDI PO, EDI Schedules)

35.1 – Profile Data Frame

The screenshot shows the 'Trading Partner Parameters Maint' window. The top section contains the following information:

- Address: 1000001 Westwood Reliable
- Trading Prtnr Interface ID: editest
- Trading Prtnr EDI ID: ef175a
- EDI Standard:
- EDI Standard Level:
- List Type: ship-to

The 'EDI Profile Data' frame is highlighted with a red border. It contains a table with the following data:

Field ID	Label	Value
TD501	ID	12345
TD502	Mbr	

At the bottom of the window, the following keyboard shortcuts are listed: F1=Help F2=Go ESC=End *Next/Prev* Ctrl-X/C/V=Cut-Copy-Paste

SS-EDI-120

EDI Profile Data Frame

You use this frame to add data values that are made available to all export functions. These values can be unique to a particular trading partner or an EDI standard for shipment information.

Field Definitions

Field ID

- Defined and documented by either the EDI standard and level or by the specific trading partner
- Consists of an identifier and a sequence number
 - For example, TD301 represents the first instance (01) of the identifier TD3

Label

- Stores a field label
- Displays during document export

Value

- Value to appear for the field during document export

- Consists of an identifier and a sequence number:
 - For example, TD301 represents the first instance (01) of the identifier TD3
- Displays during ASN export

Prompt Label

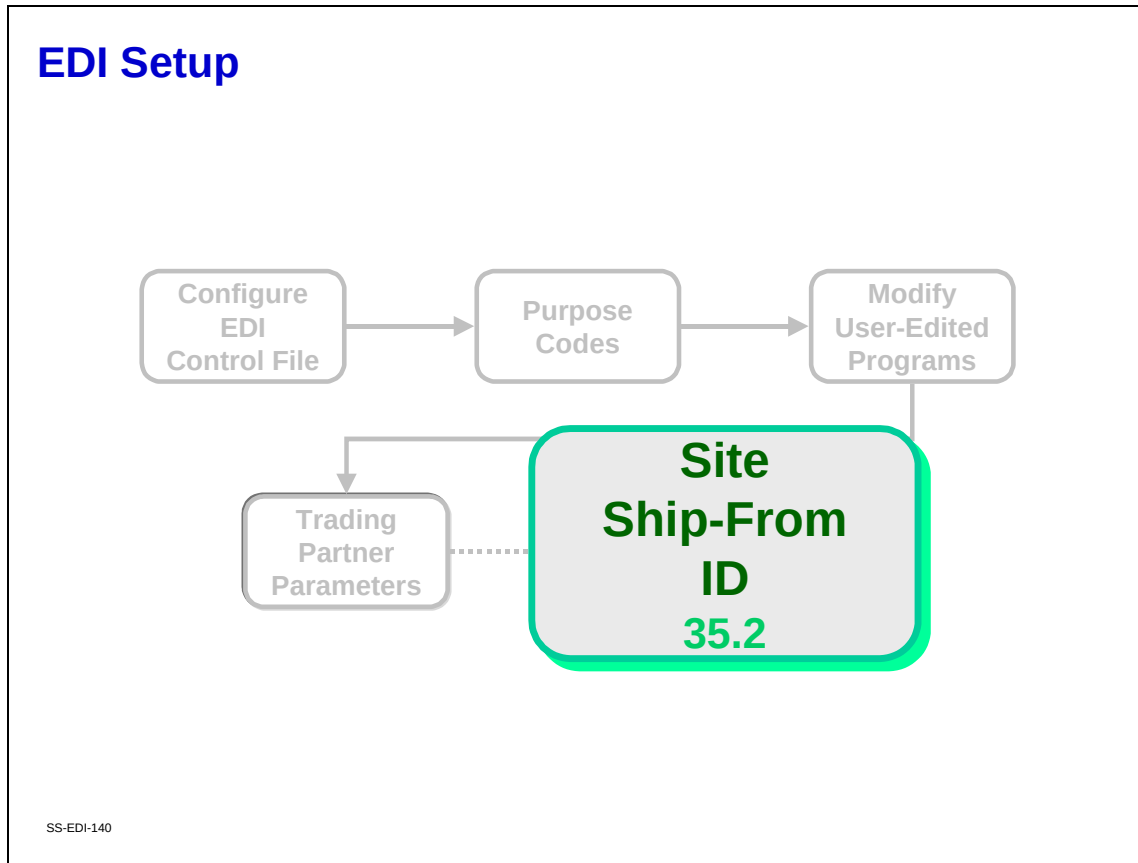
- Prompt label for an ASN header data field
- Displays during ASN export for fields having Yes in the prompt indicator

Prompt Y/N

- If Yes, ASN export program prompts for a value for this field:
 - Uses the Prompt Label value as the field name during ASN export
- If No, Field ID and Initial Value are used automatically

Initial Value

- Initial or constant value for the ASN header data field
- If Yes, initial value you enter appears in the field as the default and can be accepted or modified
- If No, value is sent on the header as a static alphanumeric value



Site Ship-From ID

Some trading partners have their own identification number for your ship-from site, and they require you use this ID number when transmitting documents to them. This ID number is how they recognize you. MFG/PRO gives you the ability to set up a cross-reference linking your ship-from site code and the trading partner's ID for you. This cross-reference is included with exported EDI data and shipping labels. On imported documents, it tells the system who the trading partner is referencing.

35.2 – Site Ship-from ID Maintenance

Site Ship-from ID Maintenance

User Menu Edit Queue Options Help

Address: 3005000 Site: 10000

Worldwide Supplies San Diego Main Plant

Site Shipping Label ID: F7BFC Site EDI ID: F7BFC

EDI Profile Data

Field ID	Label	Value
TD501	ID	12345

F1=Help F2=Go ESC=End F5=Delete Ctrl-X/C/V=Cut-Copy-Paste

User assigned

Customer assigned

SS-EDI-150

Site Ship-from ID Maintenance

Menu Number 35.2

Use Site Ship-from ID Maintenance to set up a cross-reference between your internal site code and a trading partner's ID for that site.

Field Definitions

Address

A valid MFG/PRO customer address code or ship-to address code.

Site

MFG/PRO internal site which is the ship-from site.

Site Shipping Label ID

The identification assigned to the ship-from site by the trading partner.

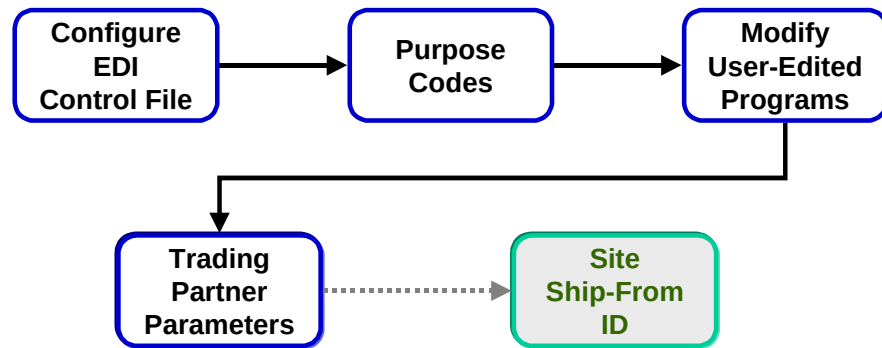
- This is the trading partner's ID for you

Site EDI ID

The EDI identification code assigned to the ship-from site by the trading partner.

In the second frame you can add ASN header field values that are made available to all export functions.

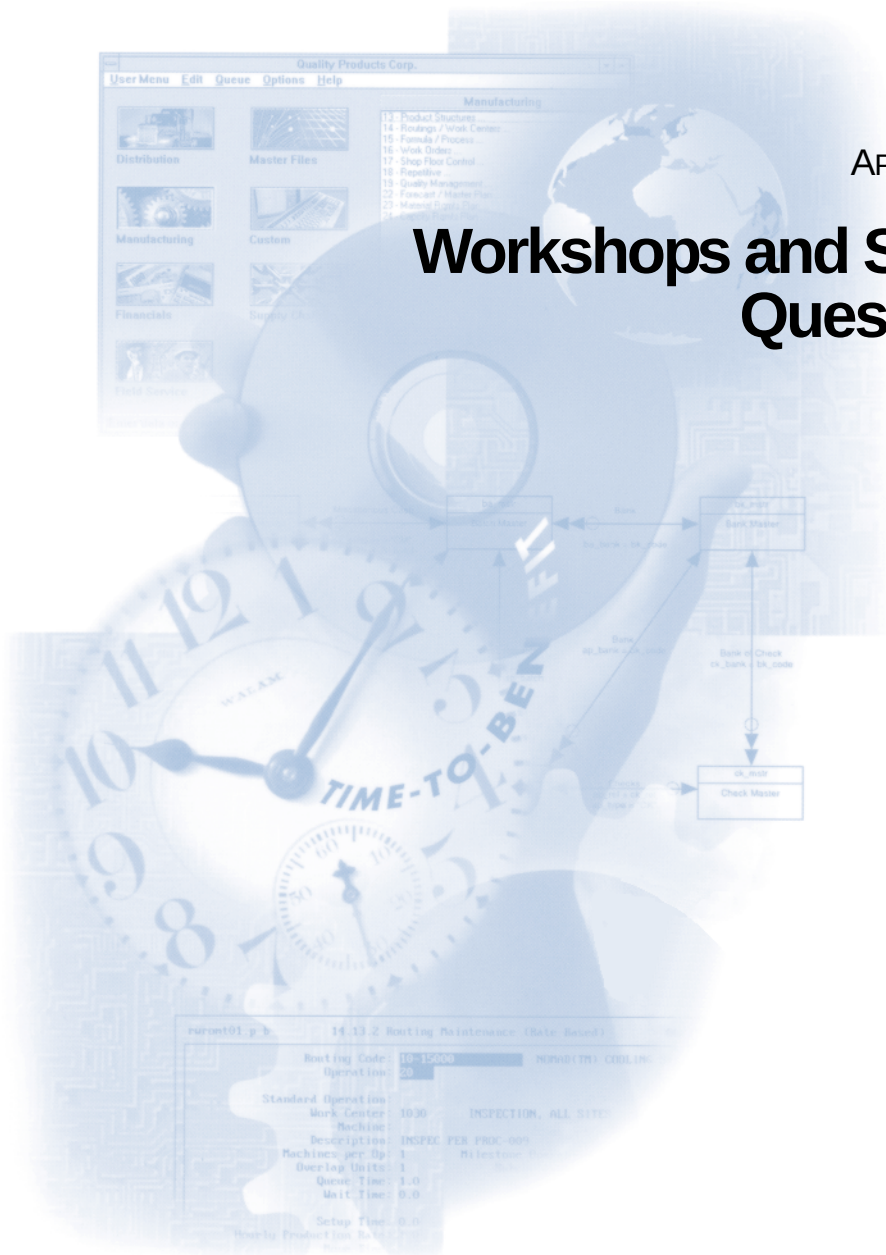
EDI Setup Summary



SS-EDI-160

APPENDIX B

Workshops and Study Questions



Setup / Implementation

Setup Workshop

Situation:

Instructions: You operate a company that makes juice drinks. One of the products that you purchase are the bottles for the drinks. For this product you have two suppliers.

- 1 Select two suppliers.
Record the supplier codes: _____
- 2 Create a purchase part number for the bottles. What field tells the system it is a purchased part?

Record the site: _____
- 3 Set up a supplier item numbers for your item number.
Record the supplier item number: _____
- 4 Set up a price list for each of your suppliers
Use Make the price list code the same as the supplier codes.
- 5 Add the price list code to the supplier information.
- 6 Set up a calendar for each of your suppliers. Make one supplier have every Friday as a non-work day and the other one have every Wednesday as a non-work day. How do you indicate a non-work day?
- 7 Set up a scheduled order for each supplier.
 - a Record each order number: _____
 - b Accept the defaults in the Order Data frame. You want to be able to print the schedules. What field do you have to check?

- c** In the first Order Line Item Data frame, enter the price list code. Accept the remaining defaults.
- d** In the second Order Line Item Data frame enter the following:

Field	Data
Firm Days	0
Schedule Days	14
Schedule Weeks	6
Schedule Months	6
Fab Auth Days	30
Raw Auth Days	60
Ship/Dlvy Pattern	20
Std Pack Qty	[make it different for each supplier]

- 8** Input a 16 week forecast for the item, starting next week. Be imaginative with your numbers.
- 9** Run selective MRP for your item number and site. Accept the defaults.
- 10** Where can you check the results? What type of orders should you see?
- 11** The scheduled order is to be shared between your two suppliers. How do you set this up?

Study Questions for Supplier Schedules Setup

- 1** You can use any type of price list for supplier schedules.
True False
- 2** One of your suppliers shuts down for two weeks every summer. What do you have to do to make sure no orders are scheduled during that two week period?
- 3** You need to set up a supplier calendar for each of your suppliers.
True False

- 4 If you are ordering more than one item from the same supplier, you need to set up a scheduled order for each item.
True False
- 5 You want to make sure the orders are shipped in multiples of 25. What do you have to set?
- 6 Since you only have one supplier, you do not need to allocate supply percentages in Scheduled Order MRP % Maintenance.
True False

Study Questions for EDI Setup

- 1 What is the function of external purpose codes? Are they optional.
- 2 What is the function of internal function codes? Are they optional?
- 3 Why do you need to modify a user-edited program?
- 4 Do you need to modify a user-edited program for every trading partner?
- 5 User-edited programs are only used for importing documents.
True False
- 6 Define trading partner. What is an EDI trading partner?

Processing

Processing Supplier Schedules Workshop

Situation:

Instructions: You have your MRP-planned purchase orders and are now ready to create the release.

- 1 Create a new supplier schedule release.
- 2 Review the schedule release. What can you use to do this?
- 3 Print a copy of the schedule release.
- 4 How does the standard pack quantity affect the orders?

Study Questions on Processing Supplier Schedules

- 1 List the ways you can transmit a schedule release to your supplier.
- 2 If you are exporting your schedule release, what information do you need to set up before you can export the release?
- 3 You can transmit the schedule release using more than one method.
True False

Receiving

Receiving Supplier Schedules Workshop

Situation:

Instructions: The shipments from both suppliers have arrived and need to be received into inventory.

- 1 Receive each shipment separately using the direct receiving method.
- 2 Print a copy of the schedule release.
- 3 Compare this copy to the copy you printed at the time of processing. What is different?
Check the header information.

Study Questions on Receiving Supplier Schedules

- 1 List the ways you can receive notification from your supplier that they have shipped your order.
- 2 List the ways you can process the shipment.

Answers to Workshops and Study Questions

Supplier Schedules Setup Workshop

- 1 Use Supplier Maintenance 2.3.1.
- 2 Use Item Master Maintenance 1.4.1. The Pur/Mfg field.
- 3 Use Supplier Item Maintenance 1.19.
- 4 Use Price List Maintenance 1.10.2.1.
- 5 Use Supplier Maintenance 2.3.1. Enter the price list code in the Supplier Pricing Data frame, Disc Tbl field.
- 6 Use Supplier Calendar Maintenance 5.5.1.1. Set the weekday in question to No under Work Day and 0 under Hours.
- 7 Use Scheduled Order Maintenance 5.5.1.13.
 - e Print Schedules must be set to Yes.
- 8 Use Forecast Maintenance 22.1.
- 9 Use Selective Materials Plan 23.3.
- 10 Use MRP Summary Inquiry 23.13 or MRP Detail Inquiry 23.16. You should see planned orders (designated as work orders).
- 11 Use Scheduled MRP % Maintenance 5.5.1.17. Assign a percentage to each order.

Supplier Schedules Setup Study Questions

- 1 False. Price tables (type L) are not used for supplier schedules.
- 2 Set up a supplier calendar using Supplier Calendar Maintenance 5.5.1.1. In the Operating Day Hour Exceptions frame define the beginning and ending dates of the shut down period.
- 3 False. If a supplier calendar is not set up, the system uses your shop calendar.

- 4 False. You can use the same scheduled order, just add a line item for each item you are ordering from the supplier.
- 5 You need to set the Std Pack Qty (Standard Pack Quantity) field in Scheduled Order Maintenance 5.5.1.13. To ship in multiples of 25, you set the field to 25.
- 6 False. Allocate 100% to the order.

EDI Setup Study Questions

- 1 External purpose codes are two-character codes indicating the type of schedule (add, change, etc.). They are part of the EDI schedule and are not optional.
- 2 Internal function codes provide additional information about the external purpose code. Their format is not dictated by the implementation guide used for the EDI schedule. Consequently they are not limited to two-characters, giving you the ability to be more descriptive. They are optional.
- 3 User edited programs are not intended to be used as is. They must be modified to work with specific trading partners and specific EDI enabling packages.
- 4 Not necessarily. It depends on the specific requirements of a trading partner. You can create a single program for all trading partners. You can also create different versions meeting specific requirements. Then, you can use the same program for several trading partners with those specific requirements.
- 5 False. User edited programs are used for importing and exporting documents.
- 6 A trading partner is any company you are selling to or buying from. An EDI trading partner is any company you communicate with using EDI.

Processing Supplier Schedules Workshop

- 1 Use Schedule Update from MRP 5.5.3.1.
- 2 Use Schedule Maintenance 5.5.3.3 or Schedule Inquiry 5.5.3.4.
- 3 Use Schedule Print 5.5.3.8.

- 4 Open quantities are adjusted accordingly.

Scheduled Order Processing Study Questions

- 1 (a) Printing and sending a hard copy
(b) Faxing
(c) Exporting
- 2 You need to set up the trading partner (i.e., your supplier) information in Trading Partner Parameters Maintenance 35.1.
- 3 True. As long as the appropriate parameters are set.

Receiving Supplier Schedules Workshop

- 1 Use Purchase Order Receipts 5.13.1.
- 2 Use Schedule Print 5.5.3.8.
- 3 The Receipt Date, Receipt Qty, and Cum Received fields show the results of the receive transaction.

Receiving Supplier Schedules Study Questions

- 1 (a) ASN.
(b) The actual shipment and accompanying documents.
- 2 (a) Import, verify, and confirm the ASN.
(b) Create and confirm the shipper.
(c) Direct receipt.

Reports, Inquiries, Browsers

Quality Products Corp.

User Menu Edit Queue Options Help

Manufacturing

- 13. Product Structures
- 14. Routings / Work Center
- 15. Formulas / Process
- 16. Work Orders
- 17. Shop Floor Control
- 18. Repetitive
- 19. Quality Management
- 20. Forecast / Master Plan
- 21. Material Control Plan
- 22. Inventory Control Plan

TIME-TO-BENEFIT

Flowchart entities and connections:

- Bank
- Bank Master
- Check Master
- Bank to Bank Master: Bank, ap_bank_code, code
- Bank Master to Bank: Bank, ap_bank_code, code
- Bank Master to Check Master: Bank of Check or_bank_code, code
- Check Master to Bank Master: Bank of Check or_bank_code, code

Routing Maintenance (Date Based)

Routing Code: 10-15000
Operation: 20

Standard Operation: 1000
Work Center: 1000
Machine: INSPEC PER PROC-00%

Description: INSPEC PER PROC-00%

Machines per Op: 1
Overlap Units: 1
Queue Time: 1.0
Wait Time: 0.0
Setup Time: 0.0

Supplier Schedules Inquiries

Menu	Inquiry	Function / Purpose
5.5.1.2	Supplier Calendar Browse	Displays information for all suppliers having a custom calendar. Shown are the work day hours for Sunday through Saturday.
5.5.1.14	Scheduled Order Inquiry	Displays information by scheduled order line item. Information shown includes order data and order line item data information.
5.5.1.18	Scheduled Order MRP% Browse	Displays information for all ship-to locations. Information shown includes the item number, effective date, purchase order number, and percent allocated.
5.5.3.4	Schedule Inquiry	Displays information by scheduled order. You have the option of displaying the net required quantity for the scheduled order. Information shown includes Prior Cum Req, Prior Cum Date, and the Schedule Detail Data.
5.5.3.5	Schedule History Inquiry	Displays information by scheduled order. You have the option of specifying a Created After date. Only scheduled orders created after this date display. Information shown is the same as in Schedule Inquiry.
5.5.5.6	PO Shipper/Container Inquiry	Displays information by supplier and shipper/container ID. Information shown includes the ship-to, identification number, site, item number, location, order number, line number, and the quantity received.
23.13	MRP Summary Inquiry	Displays information by item number and site. Information shown includes the item's item planning data, and due date and quantity information for gross requirements, scheduled receipts, projected quantity on hand (QOH), planned orders due, and planned orders released.
23.16	MRP Detail Inquiry	Displays information by item number and site. Information shown includes the item's item planning data, and due date, gross requirements, scheduled receipts, projected QOH, planned orders, and order details (e.g., work order number, release date).

Supplier Schedule Reports

Menu	Inquiry	Function / Purpose
5.5.1.15	Scheduled Order Report	Selection criteria includes supplier scheduled order details (order number, item number, supplier, ship-to). Report information includes scheduled order data and order line item data. The format of the report is the same as the screen format of Scheduled Order Maintenance (5.5.1.13), where the data was originally entered.
5.5.3.13	Schedule Report	Selection criteria includes supplier scheduled order details (order number, item number, supplier, ship-to, release ID). You have the option of receiving information for active or historical schedules. Report information includes Prior Cum Req, Prior Cum Date, Schedule Detail Data, and Resource Authorization Data.
5.5.3.15	Schedule Comparative	Selection criteria includes order number, item number, supplier, ship-to, and two release IDs. The report compares the quantities, discrete and cumulative, between the two specified releases.
5.5.3.17	Schedule Authorization Report	Selection criteria includes supplier scheduled order details (order number, item number, supplier, ship-to). Report information includes release ID number, effective dates, and resource authorization information.
5.5.5.1	Schedule Summary Report	Selection criteria includes supplier scheduled order details (order number, item number, supplier, ship-to). Report information includes due dates, workdays, net quantity due, and cumulative quantity due.
5.5.5.15	Receipt History Report	Selection criteria includes supplier scheduled order details (order number, item number, supplier, ship-to). Report information includes receipt date and time, transaction type and number, site, location, receipt quantity, and cumulative quantity.

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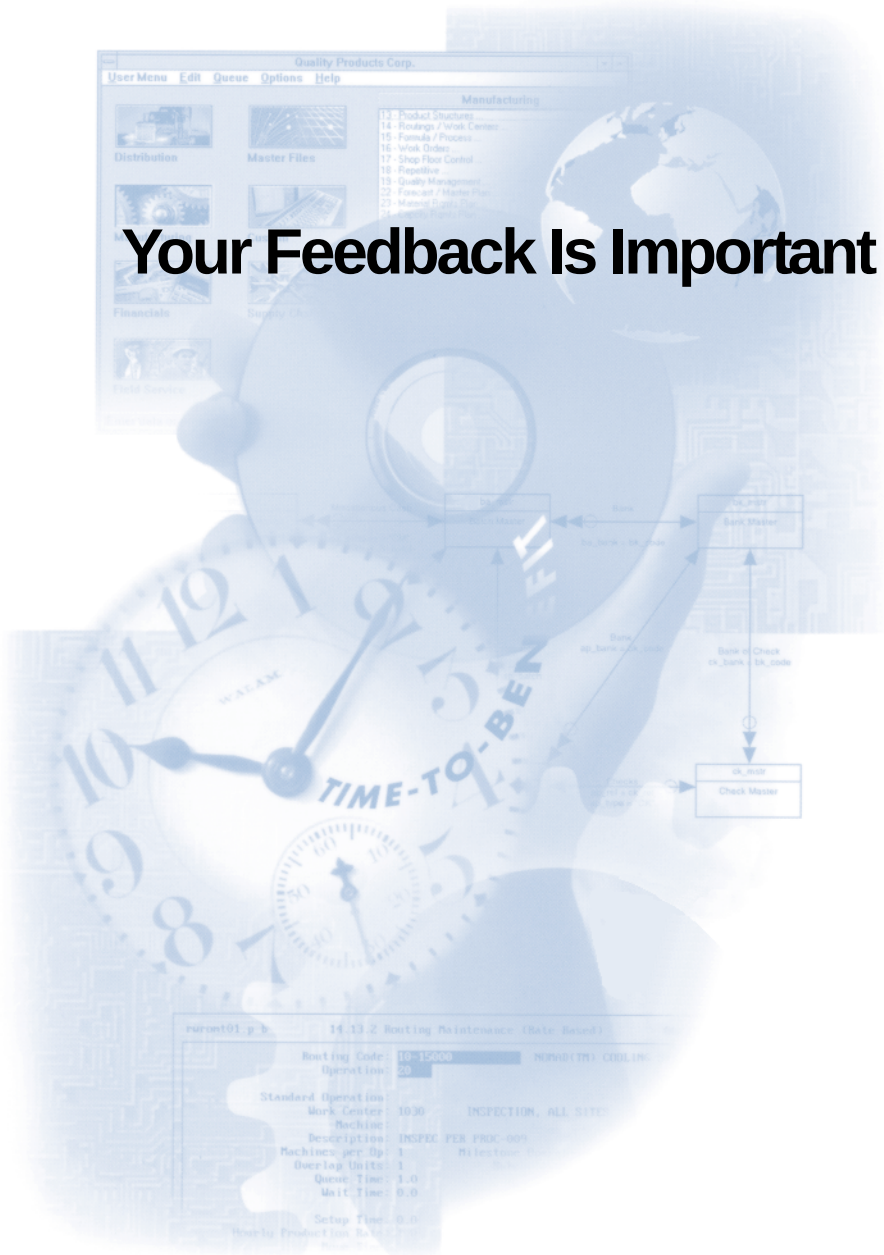
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Training Guide: Supplier Schedules

Item number: 70-2815B

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