

Industry-specific

QAD SOLUTIONS

Manufacturing Applications

MFG/PRO eB2 Release Bulletin



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MFG/PRO eB2
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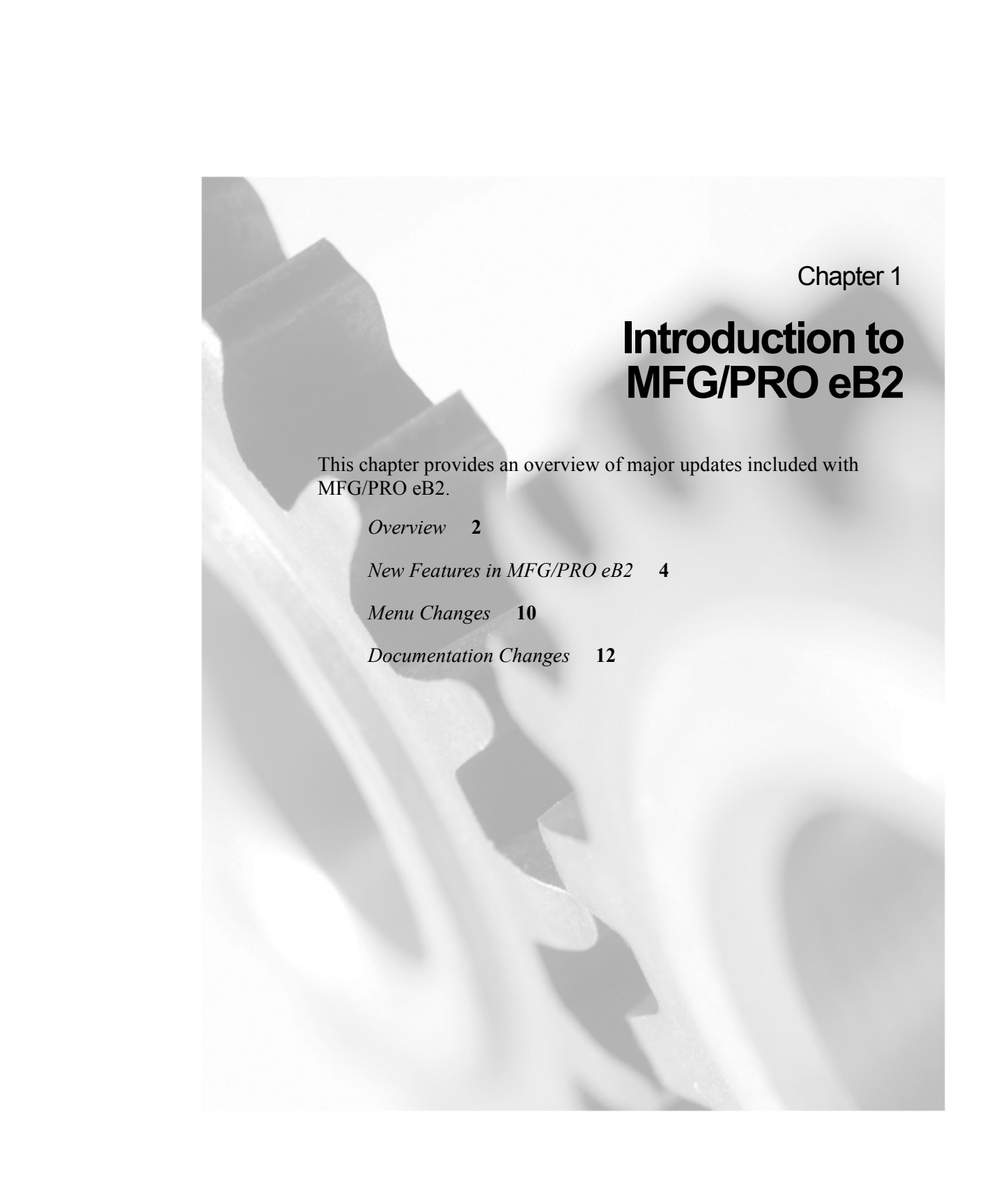
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The background of the page is a grayscale image of several interlocking gears. The gears are of different sizes and are positioned in a way that creates a sense of depth and mechanical complexity. The lighting is soft, highlighting the teeth of the gears and creating subtle shadows.

Chapter 1

Introduction to MFG/PRO eB2

This chapter provides an overview of major updates included with MFG/PRO eB2.

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Overview

MFG/PRO eB2 greatly expands QAD's ability to be a supplier of powerful, industry-specific e-business solutions. It adds significant new functionality throughout the product and introduces a new Web-based interface, QAD Desktop.

This document provides a high-level summary of new features included in MFG/PRO eB2. Features for each major functional area are grouped together under the following topics:

- User Interface
- Financials
- Distribution
- Manufacturing
- Customer Services
- Supply Chain
- PRO/PLUS
- System Enhancements
- External Interfaces

In addition, QAD has developed a process for capturing and implementing minor enhancements based on customer requests. Minor enhancements are outlined in a separate section.

Information for each feature is presented in a common format, using the following outline:

- Business need
- MFG/PRO eB2 solution
- Key features
- New menu-level programs
- Modified programs
- Conversion (if needed)

QAD Web Site

This *Release Bulletin* describes major enhancements only. To ensure complete and up-to-date information on minor updates, ECO listings are available at the QAD Web site. To view ECO listings, use the following address:

http://support.qad.com/software_update_information/eco/

To access the ECO listings, you must have a QAD Web account. To obtain a QAD Web account, go to the QAD Web site and click the Accounts link at the top of the page:

<http://www.qad.com/>

The QAD Web site also has information about training classes and other services that can help you learn about MFG/PRO eB2.

Other Documentation

Complete details regarding new features are contained in the standard set of MFG/PRO eB2 documentation describing the entire system.

- For software installation instructions, refer to the appropriate installation guide for your system.
- For conversion information, refer to the *Conversion Guide*.
- For instructions on accessing MFG/PRO eB2 programs with a Web browser, refer to *User Guide: QAD Desktop*.
- For instructions on navigating the MFG/PRO eB2 Windows and character environments, refer to the appropriate chapters of *User Guide Volume 1: Introduction*.
- For information on using features of MFG/PRO eB2, refer to the *User Guides*.
- For technical details, refer to *Entity Diagrams* and *Database Definitions*.
- For information on the application program interfaces (APIs) that let MFG/PRO eB2 exchange data with external applications, refer to the *External Interface Guides*.
- To view documents online in PDF format, see the *Documents on CD* and *Supplemental Documents on CD*.

- To download documents in PDF format or view them in HTML, go to the documentation section of the QAD Web site at:

<http://support.qad.com/documentation/>

New Features in MFG/PRO eB2

Extensive new features in MFG/PRO eB2 affect almost every area of the product. These many features express a few key themes that address critical business requirements:

- Global financial enhancements support large, multinational corporations that must deal with localized financial practices and still maintain the global visibility, shared data, and streamlined internal processes necessary to operate a global business.
- Enhancements in the area of Customer Service and Support (CSS) help QAD customers to implement powerful and complex service coverage relationships to meet the needs of multisite corporations.
- Trading partner collaborative solutions support a more effective and efficient supply chain, shortening time to market, and enabling significant cost savings.
- Streamlined financial processes enable companies to increase their competitive advantage by optimizing the speed and efficiency of their financial administration.
- Lean manufacturing processes reduce inventory throughout the supply chain and improve lead times and cycle times, which improves response to customer demands.
- MFG/PRO eB2 continues to grow in interoperability through enhanced means of communicating information electronically and new integrations with other supporting products.
- Enhancements in security solutions provide enterprise-quality protection through improved management of distributed users and software resources.

Summary of New Features

User Interface Enhancements

- The Network User Interface (NetUI) has been replaced by the QAD Desktop interface, which greatly expands features introduced by NetUI, letting you execute most MFG/PRO maintenance functions from a true HTML page.
- Menu items based on the Object-Based Component Model (OBCM) have been replaced with newer versions that feature better performance and a standard user interface. OBCM menu items available through menu substitution have also been removed.

Note This change does not affect browses. Menu substitution can still be used to switch between browses and inquiries.

Financial Enhancements

- A new Logistics Accounting module tracks third-party transportation costs incurred when a product is moved to your company or shipped from it.
- Detailed product line accounts have been extended to include purchasing and work order accounts.
- In a multisite environment, you no longer need to set up costs at every site. You can now specify a default source cost site for items held at multiple sites in one database.
- Improved support for intercompany financial activities lets you set up new accounts to identify transactions by reporting entity and pay vouchers from a central bank.
- Improved financial reporting lets you generate new reports, control whether general ledger (GL) calendars can be reopened, and apply Accounts Receivable (AR) payment distribution-line detail automatically.

Distribution Enhancements

- Consigned inventory at both customer and supplier sites can now be managed using programs that create appropriate GL and inventory transactions.
- Inventory can now be reserved for use during the entry of sales orders for specific, designated customers.
- The delivery of items on a purchase order can be redirected to another site.
- Order processing can now be controlled based on the projected quantity available to promise (ATP) for sales order line items.
- The Enterprise Material Transfer (EMT) functions provide greater flexibility in managing information through the supply chain.
- Scheduled order lines are now identified by an MFG/PRO item number, customer purchase order number, customer reference, and model year. Using these fields, multiple lines on a scheduled order can have the same item number and PO, but different customer item numbers.

Manufacturing Enhancements

- A new Flow Scheduling module generates time-phased, sequenced statements of production requirements for production lines in a flow manufacturing environment.
- Kanban signals can now be executed automatically to notify the appropriate supplier or work center that work should begin to replenish the kanban.
- Work orders can now be managed by site more effectively.
- Work order close and receipt date information is now captured and displayed on history reports.
- Both Progress and Oracle environments can now use a Progress Application Server (AppServer) to speed up MRP and DRP processing by multithreading MRP/DRP sessions across multiple processors.

Customer Services Enhancements

- Enhanced service contracts in the Service/Support Management module let you design contracts according to two models: end users with items or items with end users. In addition to multiple end users on a contract, other contract enhancements improve billing and accounting.
- Changes in the Project Realization Management (PRM) module let you associate multiple MO lines with a single PAO line. Additionally, a new report has been added.

Supply Chain Enhancements

- Significant changes to distribution orders streamline order creation and allow intersite requests to be generated at a supply site.
- Continued enhancements to EDI ECommerce support additional business documents and improve performance. For example, a new outbound gateway lets users export supplier self-billing information. Consignment data import and export gateways support the new Consignment Inventory modules. New import gateways let users attach comments to previously imported purchase orders, as well as import document status messages from trading partners related to previously exported documents. Additionally, the capabilities of EDI ECommerce have been extended to support the import and export of documents in Extensible Markup Language (XML) format.

PRO/PLUS Enhancements

The optional PRO/PLUS package now includes two new modules: Container and Line Charges and Shipment Performance Reporting.

- The Container and Line Charges module lets you track and invoice shipping containers associated with sales order lines, as well as other miscellaneous charges.
- The Shipment Performance Reporting module lets you monitor shipping effectiveness by measuring how a shipping department meets customer-requested ship dates and quantities.

System Enhancements

- MFG/PRO eB2 has been enhanced to provide improved access management and security features. More detailed user profiles can be created and user activity in licensed applications can be monitored.
- License Registration has been enhanced to let you differentiate among various MFG/PRO applications. More reporting options provide detail about the activity of each user and software usage.
- Manager Functions lets you set up and report multiple time zones and load sample data based on a snapshot of time zone information.
- MFG/PRO eB2 now includes a sales order change-tracking mechanism. You can assign a reason code and comments to changes in discrete sales order lines, specify which sales order detail fields you want to track, active or deactivate the tracking, and display the changes in a report.

Application Programming Interface (API) Enhancements

- An interface is now provided with Demand Planner, an advanced demand-management and forecasting product from Demantra Ltd.
- A new set of Data Synchronization functions can be used with Q/LinQ in a distributed database environment. These features ensure that critical base data is synchronized across multiple MFG/PRO databases.
- Q/LinQ is now easier to administer and implement. It no longer depends on Mercator for data mapping and supports more flexible use of MQSeries queues.
- The Advanced Planning and Optimization (APO) API now includes features that let you receive real-time, up-to-date available-to-promise (ATP) data from the advanced planning applications provided by Adexa Inc.

Features by Functional Area

All of the features listed in Table 1.1 are included in MFG/PRO eB2. The table summarizes features by functional area and indicates where each is described in more detail.

Table 1.1
Features by
Functional Area

MFG/PRO eB2 Area	New Feature	Described On...
User Interface	Desktop Replaces the NetUI	See page 16.
	Removal of OBCM Programs	See page 22.
Financials	Logistics Accounting	See page 27.
	Purchasing and Work Order Accounts	See page 32.
	Linked-Site Costing	See page 34.
	Intercompany Accounting	See page 37.
	Improved Financial Reporting	See page 41.
Distribution	Customer Consignment Inventory	See page 44.
	Supplier Consignment Inventory	See page 49.
	Reserved Locations	See page 53.
	Purchase Order Enhancements	See page 55.
	ATP Enforcement	See page 56.
	EMT Enhancements	See page 58.
	Multiple Customer Items	See page 60.
Manufacturing	Flow Scheduling	See page 64.
	Kanban Transactions	See page 68.
	Work Order Control by Site	See page 72.
	Work Order Dates	See page 73.
	Improved MRP and DRP Performance	See page 75.
Customer Services	Enhancements to Service Contracts	See page 77.
	Enhancements to PRM	See page 81.
Supply Chain	Enhanced Distribution Orders	See page 83.
	Electronic Data Interchange (EDI)	See page 86.
PRO/PLUS	Container and Line Charges	See page 94.
	Shipment Performance Reporting	See page 100.

MFG/PRO eB2 Area	New Feature	Described On...
System Enhancements	User and Security Changes	See page 104.
	License Registration	See page 108.
	Multiple Time Zones Setup	See page 110.
	Change Tracking	See page 112.
Interfaces/APIs	Demand Planner API	See page 114.
	Data Synchronization	See page 115.
	Q/LinQ Enhancements	See page 119.
	Advanced Planning and Optimization Available to Promise	See page 121.
Minor Enhancements		See page 124.

Menu Changes

Menu changes are documented in the appropriate sections in Chapter 2. This section summarizes the locations of moved, added, and removed programs in the MFG/PRO eB2 menu system.

Moved Programs

Several changes involve moving menu items to a different location on the menu system.

- Several programs on the UI: Manager Functions Menu (36.20) have been moved. See Table 2.5, “New UI: Manager Functions Menu,” on page 26.
- Window Help Maintenance (36.4.21) has been combined into Drill Down/Lookup Maintenance (36.20.1). Its associated inquiry (36.4.22) has been renamed and moved to Lookup Browse (36.20.3)
- Several Accounts Payable (28) reporting programs are under a new Accounts Payable Reports Menu (28.17). See Table 2.8, “New Accounts Payable Reports Menu (28.17),” on page 32.
- Entity-related programs are now grouped together on a submenu. See Table 2.14, “Entity Menu Structure,” on page 41.

- Several reporting programs in the Shop Floor Control module have been moved under a new submenu. See Table 2.27, “Shop Floor Reports,” on page 66.
- The EDI ECommerce programs have been moved up in the menu system to replace the menu previously occupied by standard EDI programs. See Table 2.44, “EDI ECommerce Programs,” on page 91.
- Programs for creating and viewing country codes have been moved from the Intrastat and Global Tax Management menus and now appear on a new Country Code Menu (2.14). See Table 2.52, “Country Code Menu Structure,” on page 108.

Added Programs

Functional enhancements to MFG/PRO eB2 have resulted in the addition of many new programs to the menu. These new programs are listed under the new feature descriptions in Chapter 2.

Description	Menu Listing On...
Logistics Accounting	See Table 2.6 on page 30.
Purchasing and Work Order Detail Accounts	See Table 2.9 on page 33.
Linked-Site Costing	See Table 2.10 on page 35.
Intercompany Accounting	See Table 2.12 on page 39.
Improved Financial Reporting	See Table 2.15 on page 43.
Customer Consignment Inventory	See Table 2.17 on page 46.
Supplier Consignment Inventory	See Table 2.19 on page 51.
Reserved Locations	See Table 2.21 on page 54.
ATP Enforcement	See Table 2.23 on page 57.
Flow Scheduling	See Table 2.28 on page 66.
Kanban Transactions	See Table 2.29 on page 70.
Service Contract Enhancements	See Table 2.34 on page 80.
New Report for PRM	See Table 2.36 on page 82.
New Distribution Order Programs	See Table 2.38 on page 85.
New EDI ECommerce Programs	See Table 2.41 on page 88.
Container and Line Charges	See Table 2.45 on page 97.
Shipment Performance Reporting	See Table 2.48 on page 103.
User and Security Changes	See Table 2.50 on page 107.

Table 1.2
New Menu
Programs

Description	Menu Listing On...
License Registration	See Table 2.53 on page 109.
Multiple Time Zones Setup	See Table 2.55 on page 111.
Change Tracking	See Table 2.57 on page 113.
Demand Planner API	See Table 2.59 on page 115.
Data Synchronization	See Table 2.60 on page 117.
APO Available to Promise	See Table 2.62 on page 123.

Deleted Programs

Because of functional changes to MFG/PRO eB2, some menu items have been deleted.

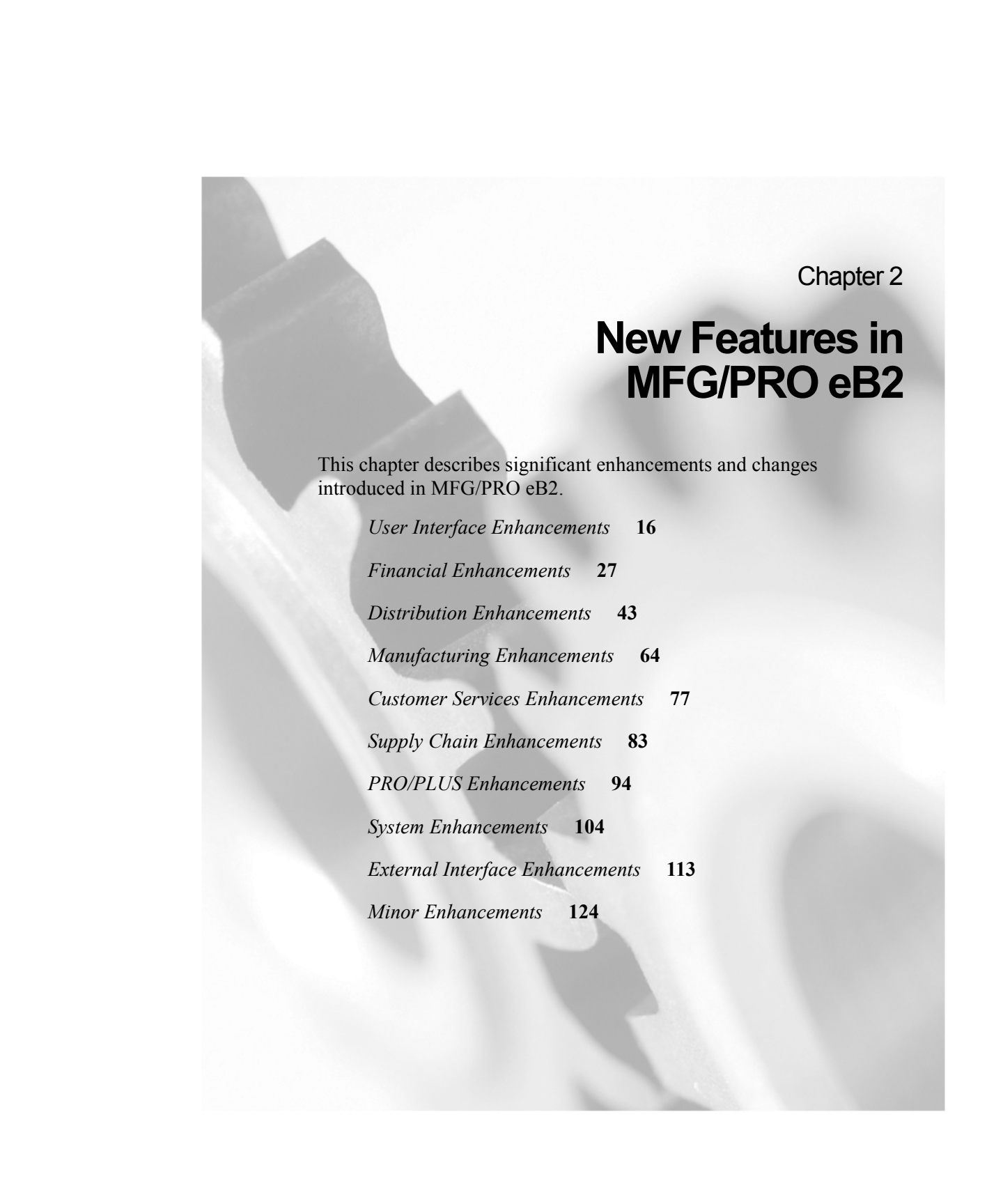
- See Table 2.3 on page 25.
- Some of the menu items used to create programs based on the Object-Based Component Model (OBCM) have been removed.
- See Table 2.43 on page 90.
- All programs related to the standard EDI module have been removed.

Documentation Changes

The user documentation for MFG/PRO eB2 has been updated to include the new features described in this *Release Bulletin*. Additionally, several structural changes to the documentation set have been made since the last release of MFG/PRO.

- The installation guides, which previously included information on both installation and conversion, have been divided into separate books. This will make installation easier for users installing MFG/PRO eB2 for the first time, since they do not need to execute any conversion steps.
- The book formerly titled *File Relationships* has been renamed *Entity Diagrams* to better conform with modern relational database nomenclature.
- User Guide Volume 6: Master Files* has been renamed to *User Guide Volume 6: Master Data*. This change was made in conjunction with replacing all references to database files with the term *table*, which conforms to relational database nomenclature.
- The *Network User Interface Guide* is no longer available. It has been replaced by the *User Guide: QAD Desktop*.

- The *PRO/PLUS User Guide* is no longer provided on a separate CD; it is included on the standard Documents on CD as *User Guide Volume 11: PRO/PLUS*.
- *User Guide Volume 2: Distribution* now has two parts. Volume 2A includes previously published information. Volume 2B includes information on the two new consignment modules.
- Information about the Global Requisition System (GRS) has been removed from *User Guide Volume 11: PRO/PLUS* and is now included with other distribution modules in *User Guide Volume 2A: Distribution*.
- The following books have been added to the set of *External Interface Guides* published on the Supplemental Documents on CD:
 - *External Interface Guide: Data Synchronization*
 - *External Interface Guide: Demand Planner*
- A distinction between runtime and developer versions of Q/LinQ no longer exists. The *Q/LinQ Technical Reference* is provided to all Q/LinQ users on the Supplemental Documents on CD.
- Illustrations of MFG/PRO eB2 screens have been updated to reflect the new QAD Desktop interface, where appropriate.



Chapter 2

New Features in MFG/PRO eB2

This chapter describes significant enhancements and changes introduced in MFG/PRO eB2.

User Interface Enhancements **16**

Financial Enhancements **27**

Distribution Enhancements **43**

Manufacturing Enhancements **64**

Customer Services Enhancements **77**

Supply Chain Enhancements **83**

PRO/PLUS Enhancements **94**

System Enhancements **104**

External Interface Enhancements **113**

Minor Enhancements **124**

User Interface Enhancements

The release of MFG/PRO eB2 includes the following major changes to the user interface:

- Replacement of NetUI with QAD Desktop
- Removal of programs based on the Object-Based Component Model (OBCM)

Desktop Replaces the NetUI

With the release of MFG/PRO eB2, the Network User Interface (NetUI) has been replaced by QAD Desktop 2. Like the NetUI, Desktop lets you access MFG/PRO functions from within a Web browser. However, Desktop greatly expands features introduced by NetUI, letting you execute most MFG/PRO maintenance functions from a true HTML page.

Note Some of the changes described here were introduced in service packs to earlier versions of MFG/PRO that supported eB Desktop 1.

Business Need

Many companies have a growing need to leverage Web technologies to conduct their day-to-day business activities. These technologies are especially important when a company has multiple physical sites. Such companies need a collaborative platform that increases user productivity and lets users access shared resources conveniently.

To avoid escalating costs for information systems, companies need applications that are easy to deploy and update. They also need applications that do not degrade network performance by sending large numbers of messages or files across the network.

The NetUI introduced reports, browses, and inquiries that were executed as Java-based applications, optimized for network performance. However, the NetUI solution was not complete. Maintenance programs still executed within a telnet session in the browser. Features that users expect in a graphical user interface (GUI) were not available in telnet. For example, you could not activate a field by clicking into it, or copy and paste data from one field to another.

A more industry-standard, graphical solution was needed to provide consistent and easily understood navigation.

Many companies also need to be able to model their processes at the interface level to provide guidance for the day-to-day activities of their end users. They want to be able to take advantage of the linking provided through Web applications.

MFG/PRO eB2 Solution

QAD Desktop extends the power of the NetUI while introducing new features that expand the ability of users to integrate MFG/PRO eB2 into their business practices. With Desktop, you can launch multiple programs simultaneously, search for programs by name or number, and add convenient links to supplier and other Web sites.

Key features of Desktop include:

- A fresh, updated interface that is easy to use and navigate
- True HTML screens that replace most telnet maintenance screens
- An authoring tool that lets you create and maintain clickable process diagrams

HTML Maintenance Screens

The input screens for maintenance programs in Desktop are standard HTML pages. While the sequence of fields and frames is modeled after the character interface, all of the input fields on HTML screens support standard editing options such as highlighting, cutting, copying, and pasting. In the HTML screen, all logical fields that previously took a Yes or No value now display as check boxes. In some cases drop-down lists and radio buttons are also used.

Java lookups are attached to fields in maintenance programs as needed. You can use these to select from a list of valid values.

You can use the familiar menu structure to find programs to execute or use a search feature that lets you find programs by menu number, menu label key word, short name, or execution file.

Within a screen, you navigate by clicking buttons or choosing options. Program windows can be detached so that you can have multiple functions executing simultaneously. A context menu accessed through the right-mouse click provides access to navigation options.

Figure 2.1 illustrates the Location Maintenance (1.1.18) screen in Desktop.

Fig. 2.1
Location
Maintenance
Screen in Desktop

See “Removal of OBCM Programs” on page 22.

Desktop ensures a more consistent look and feel for all maintenance programs, which facilitates training and ease of use. To support this consistent look, the extended user interface (XUI) is no longer available. In addition, the interface developed with the Object-Based Component Model (OBCM) is no longer available.

Other changes made to the interface include the following:

- The toolbar icons displayed on browses, reports, inquiries, and the few programs that still execute in telnet have been updated and replaced with clearer, simplified images. The icons perform the same functions; only their appearance has changed.
- The appearance of telnet programs in the Desktop has changed in the following ways:
 - A toolbar is active with both standard tool buttons and those specific to telnet programs. Most actions that were previously available with function keys can now also be executed by clicking a button.
 - A separate scrollable message area has been added at the bottom of the telnet program screen.

- The general appearance of the screen has been modified to make telnet screens look more like browses and reports in the Desktop.
- Java lookups are now available from most fields in telnet programs.
- Access to online help and lookups has been functionally separated. A new button and accelerator (Alt+L) display the lookup. Clicking the question mark icon or pressing F2 displays the same HTML-based help available in reports.

Process Editor

QAD Desktop features a new Process Editor that lets you build models of your company's work processes. Using these models can optimize knowledge transfer within an organization and facilitate training.

The models you build with the Process Editor are clickable image maps that have associated URLs. The URLs can point to various resources—such as images, video, audio, and documents—as well as to MFG/PRO programs to execute. Any application that can be viewed in a browser can be associated with one of the locations on a process map.

Figure 2.2 illustrates a sample invoicing process for sales orders in Desktop.

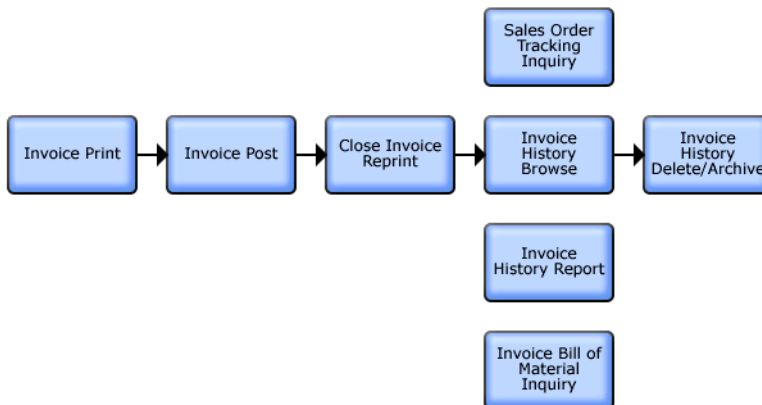


Fig. 2.2
Sample Desktop
Process

You can design processes for training or as navigation tools and then add them to the Desktop menu system so that users can display them and use them to navigate through a set of steps.

Key Features

Using features of Desktop, you can:

- Execute most MFG/PRO programs from an HTML page within a Web browser.
- Search for MFG/PRO programs by menu number, menu label key word, short name, or execution file.
- Add program links that are accessible from other programs in Desktop.
- Detach programs so that you can run multiple programs or multiple instances of one program.
- Use Java lookups from HTML maintenance functions to find and return field values.
- Create graphical work-flow diagrams with the Process Editor that let users execute MFG/PRO programs or access any resource available through a URL.
- Add links to the Desktop menu to display processes using Menu URL Maintenance (36.20.10.8).
- Use the Desktop Sales Order entry screen to quickly create unconfirmed sales orders.

New Programs

Desktop does not add any programs to the MFG/PRO eB2 menu system. It simply provides a new interface to existing programs.

Modified Programs

Desktop is an interface to existing MFG/PRO programs; it does not modify the programs themselves. However, some of the programs used to administer and support the interface have been modified. The NetUI menu (36.20.10) has been renamed Desktop menu, and the NetUI Security Menu (36.3.21) has been renamed Desktop Security. A few of the options in User Option Maintenance (36.20.10.1) and User Option Telnet Maintenance (36.20.10.3) no longer apply to Desktop.

In addition, a new type has been added to Program Information Maintenance (36.3.21.1) to support Desktop.

Modified Infrastructure

QAD Desktop takes advantage of features added by the Java 2 Platform, Enterprise Edition (J2EE), which is designed to support the requirements of large-scale computing systems. Features that Desktop uses include Java servlets and Java Server Pages (JSPs), which facilitate dynamic Web-enabled data access and manipulation.

Desktop obsoletes some components required by the NetUI, modifies some, and adds new technical requirements. For example, the remote method invocation (RMI) server used to support the XUI programs is no longer needed.

This section discusses some of the Desktop technical requirements.

Java

Desktop requires at least Java 1.3.1_0.3. With this version of Java, virtually no client installation is required. The installation of Java is automated by Java itself, which downloads the Desktop executable file as needed.

SVG Viewer

The Process Editor relies on the *scalable vector graphics (SVG)* format, a new XML technology for defining vector-based two-dimensional graphics for the Web. SVG was developed by the World Wide Web Consortium (W3C), which promotes standards for the Web and interoperability among Internet products.

Since SVG is a new technology, most browsers do not support it without the use of a plug-in. Adobe Systems Inc. provides a free SVG Viewer similar to Acrobat Reader. Once this viewer is installed on a client computer, users can view SVG files seamlessly from their Web browsers.

Obtaining the SVG plug-in is discussed in more depth in *Installation Guide: QAD Desktop*.

Servlet Engine

Desktop makes use of servlets. Servlets are similar to Java applets, but run on the server side and are used to run interactive Web applications. Desktop uses Tomcat 4.0 as its servlet engine, which is an open-source servlet implementation developed by the Apache project.

Removal of OBCM Programs

Business Need

Beginning with Version 8.5 of MFG/PRO, some maintenance programs were written based on the Object-Based Component Model (OBCM). These programs have a different appearance than other maintenance programs and are structured with a series of detail applications.

Because only a few programs use the OBCM design, users often found it difficult to navigate these programs. In addition, since two versions of each of these programs existed—one in standard format and one in OBCM format—special effort was required during maintenance to keep the functional behavior of the programs the same.

MFG/PRO eB2 Solution

With the introduction of Desktop, QAD has taken a different direction in interface development. Since Desktop offers a superior Web-based interface more appropriate for the e-business marketplace, OBCM is no longer supported in MFG/PRO eB2. All maintenance programs that followed this model have been removed.

Note The removal of OBCM does not affect browses or the ability to generate browses. While the programs used to generate browses have been rewritten, the basic features of browses are unchanged.

Modified and Obsolete Programs

The following section lists programs that have been removed and new programs created to replace some removed programs. In addition, the menu that displays on all drill-down browses has been modified by removing the Navigate, Config, and Windows menus.

Table 2.1 lists maintenance programs with both standard and OBCM versions. For all programs in this table, the OBCM version no longer exists. You can continue to use the program in the Standard Program column instead.

Menu Number	Description	OBCM Program	Standard Program
1.13	Unit of Measure Maintenance	ppcn013.w	ppummt.p
1.16	Customer Item Maintenance	ppcn011.w	ppcpmt.p
1.19	Supplier Item Maintenance	ppcn012.w	ppvpmt.p
1.22.13	Lot Group Maintenance	clcn001.w	cllgmt.p
2.12	Company Address Maintenance	adcn014.w	admngmt06.p
2.13.1.1	Tax Type Maintenance	txcn000.w	txtxtmt.p
2.13.1.5	Tax Class Maintenance	txcn001.w	txtaxcmt.p
2.13.1.9	Tax Usage Maintenance	txcn002.w	txtxumt.p
2.13.1.17	Rounding Method Maintenance	adcn020.w	mgrndmt.p
2.13.1.21	Trailer Tax Detail Maintenance	adcn021.w	txtrldmt.p
2.17.1	Carrier Maintenance	adcn027.w	adcamt.p
2.19.1	Credit Terms Maintenance	adcn026.w	adcertmt.p
2.20.1	Freight List Maintenance	socn001.w	sofrlmt.p
2.20.13	Freight Terms Maintenance	socn002.w	softrmt.p
2.21.1	Customer/Supplier Bank Maint	adcn013.w	adcsbkmt.p
2.22.13	Intrastat Maintenance	iecn001.w	iehmt.p
2.22.1.1	Flow Indicator Maintenance	iecn002.w	ieflowmt.p
2.22.1.4	Terms of Delivery Maintenance	iecn003.w	ietodmt.p
2.22.1.7	Nature of Transaction Maint	iecn004.w	ienotmt.p
2.22.1.13	Mode of Transport Maintenance	iecn005.w	iemotmt.p
2.22.1.16	Port Maintenance	iecn006.w	ieportmt.p
2.22.1.19	Statistical Procedure Maint	iecn007.w	iespmt.p
2.22.1.22	Region Maintenance	iecn008.w	ieregmt.p
2.5.1	Salesperson Maintenance	adcn018.w	adspmt.p
2.5.6	Sales Person Commission Detail	adcn001.w	adspmt01.p
2.7.1	Employee Maintenance	adcn008.w	ademmt.p
11.1.15.7	SR Status Code Maintenance	fscn005.w	fssrsmmt.p
11.1.15.10	SR Queue Maintenance	fscn013.w	fssrqmt.p

Table 2.1
Removed OBCM
Programs with
Standard Versions

Menu Number	Description	OBCM Program	Standard Program
11.1.21.1	Call Status Code Maintenance	fscn004.w	fscasmt.p
11.1.21.7	Call Queue Maintenance	fscn012.w	fscaqmt.p
11.5.18.1	Billing Cycle Code Maintenance	fscn002.w	fssbcm.p
11.13.4	Engineer Status Maintenance	fscn001.w	fsessmt.p
11.13.5	Engineer Skills Maintenance	fscn006.w	fsegsmt.p
11.21.1	Work Code Maintenance	fscn011.w	fsfwkmt.p
11.21.17	Return Status Maintenance	fscn007.w	fsfpstmt.p
11.21.21.1	Charge Code Maintenance	fscn008.w	fsfcgmt.p
11.21.21.9	Revenue Product Line Maintenance	fscn009.w	fsfccrmt.p
11.21.21.13	Default Charge Code Maintenance	fscn010.w	fsfcdmt.p
12.1.1	Network Code Maintenance	dnscn001.w	dnssmt.p
14.17.1	Work Center/Routing Stds Maint	rwcen001.w	rwwrmt.p
25.3.7	Format Position Maintenance	glcn001.w	glfmmt.p
25.21.23	Quarter Maintenance	grcn001.w	grqtrmt.p
25.21.12.1	Rounding Method Maintenance	adcn020.w	mgrndmt.p
33.5.20	Pallet Maintenance	spcn001.w	sppalmt.p
36.2.1	Holiday Maintenance	mgcn026.w	mghdmt.p
36.2.9	Rounding Method Maintenance	adcn020.w	mgrndmt.p
36.2.17	Reason Codes Maintenance	mgcn021.w	mgrnmt.p
36.3.18	User Maintenance	mgcn023.w	mgurmt.p
36.4.1	Language Code Maintenance	mgcn020.w	mglmmt.p
36.6.1	Database Connection Maintenance	mgcn022.w	mgdcm.p
36.13.4	Printer Default Maintenance	mgcn025.w	mgupmt.p

Table 2.2 lists OBCM maintenance programs that did not have a standard equivalent program. For these programs, the OBCM program has been removed and a new standard program written.

Menu Number	Description	OBCM Program	Standard Program
1.9.1.1	Group Maintenance	pccn007.w	pcgrmt.p
1.9.1.3	Maintain Users in Groups	pccn025.w	pcurgmt.p
1.9.1.5	Routing Slip Maintenance	pccn005.w	pcrsmt.p
1.9.1.7	Routing Slip Copy	pccn014.w	pcrscp.p

Table 2.2
OBCM Programs
with New Standard
Programs

Many of the programs on UI: Manager Functions (36.20) have been removed permanently; no replacement program is provided. These programs were used to develop and maintain OBCM programs, an activity that is no longer supported.

Table 2.3 lists the programs on this menu that have been deleted.

Menu Number	Description	Program Name
36.20.4	User Interface Profile	mgcn016.w
36.20.5	Window Config and Security Maint	mgcn019.w
36.20.13.1	Folder Maintenance	mgcn032.w
36.20.13.2	Folder Browse	mgbr207.p
36.20.13.4	Navigator Maintenance	mgcn035.w
36.20.13.5	Navigator Browse	mgbr210.p
36.20.13.7	Business Rule Maintenance	mgcn029.w
36.20.13.8	Business Rule Browse	mgbr209.p
36.20.13.13	Container Maintenance	mgcn037.w
36.20.13.14	Container Browse	mgbr201.p

Table 2.3
Removed UI:
Manager Functions
Programs

Note Some of the attributes previously set with User Interface Profile (36.20.4) are now available in User Maintenance (36.3.18). These include the menu style, choice of Windows or character help, and menu substitution.

A few programs on the UI: Manager Functions menu are used to create and maintain browses and change other aspects of the interface. The OBCM versions of these programs have been replaced with standard programs. Table 2.4 lists these programs.

Table 2.4

UI: Manager
Functions Programs
with New Standard
Programs

Old Menu	New Menu	Description	OBCM Program	Standard Program
36.20.1	36.20.1	Drill Down/Lookup Maintenance	mgcn001.w	mgdlfhmt.p
36.20.2	36.20.4	User Tool Maintenance	mgcn002.w	mgtoolmt.p
36.20.3	36.20.6	Menu Substitution Maintenance	mgcn003.w	mgmsmt.p
36.20.13.10	36.20.13	Browse Maintenance	mgcn011.w	mgbwmt.p
36.20.13.12	36.20.18	View Maintenance	mgcn008.w	mgvwmt.p

The programs that still exist on the UI: Manager Functions menu have been rearranged. A number of new browses have been added for reviewing drill downs, lookups, browse detail, and views.

The following additional changes have been made:

- Window Help Maintenance (36.4.21) has been combined with Drill Down Maintenance. The new combined program is called Drill Down/Lookup Maintenance (36.20.1).
- Window Help Browse (36.4.22) has been renamed to Lookup Browse and moved to 36.20.3.
- Window Help Delete/Archive (36.4.23) has been removed.

Table 2.5 lists the programs that now appear on the UI: Manager Functions menu.

Table 2.5

New UI: Manager
Functions Menu

Menu Number	Description	Program Name
36.20.1	Drill Down/Lookup Maintenance	mgdlfhmt.p
36.20.2	Drill Down Browse	mgbr001.p
36.20.3	Lookup Browse	mgbr005.p
36.20.4	User Tool Maintenance	mgtoolmt.p
36.20.6	Menu Substitution Maintenance	mgmsmt.p
36.20.7	Menu Substitution Browse	mgbr013.p
36.20.10	Desktop Menu ...	
36.20.13	Browse Maintenance	mgbwmt.p
36.20.14	Browse Master Browse	mgbr003.p
36.20.15	Browse Detail by Field	mgbr040.p
36.20.18	View Maintenance	mgvwmt.p
36.20.19	View Browse	mgbr020.p

Financial Enhancements

MFG/PRO eB2 includes the following enhancements to the financial modules:

- A new Logistics Accounting module that tracks transportation costs incurred when goods are moved in and out of company locations
- Extension of detailed product line accounts to include purchasing and work order accounts
- Ability to specify default source cost sites for items held at multiple sites in one database
- Improved general ledger (GL) features for companies with multiple reporting entities
- Additional reporting options that satisfy some national regulatory reporting requirements

Logistics Accounting

Logistics costs are incurred when a product is moved from one location to another. These costs can include not only the freight charges paid to carriers, but also insurance, duty, customs clearance, handling charges, and so on. Depending on the trade terms, these costs could be paid by the supplier and recharged to the customer within the item price or as a trailer charge, or paid by the customer directly to providers such as the carrier, insurer, or customs.

By identifying logistics costs and making them visible, the customer and the supplier can work together to minimize them. This is impossible when the costs are hidden within the delivered item price.

In companies where a significant proportion of purchases are imports, logistics costs have a large financial impact since they can represent a high percentage of the total delivered cost and must be included in price comparisons with local sources.

A company can take two approaches when accounting for logistics costs:

- The costs can be regarded as a necessary expense associated with the transport of goods for the company as a whole and entered as an expense in the general ledger. However, this approach is not recommended, since it does not account for the true cost of purchased materials and components.
- Logistics costs can be considered part of the overall cost specific to each item and included in the item cost.

Business Need

As manufacturing companies increasingly look for cheaper materials and components from remote sources, logistics charges have become a more significant aspect of cost management.

The costing functionality in MFG/PRO was designed to calculate and account for manufacturing costs only. Although functionality was added to support freight charges to customers within sales shipments, the costs payable to carriers were not covered. Manual processes have been used to account for and reconcile logistics costs, but this is inefficient and can lead to accounting errors.

MFG/PRO eB2 Solution

▶ See *User Guide*
Volume 6: *Master*
Data.

The new Logistics Accounting module improves control over logistics costs and automates the administration process. Logistics Accounting lets you define and track individual costs associated with the transportation of goods into and out of company locations. These costs are referred to as *logistics charges*. Logistics Accounting lets you define logistics charges for any costs payable to third-party suppliers for the transportation of purchased items from a supplier to a company location and for shipments of items from a company location to a customer or another company location.

You can use alternate methods for accounting for costs. You can build logistics charges into the standard cost for items or you can treat logistics charges as an expense in the general ledger.

Logistics Accounting features affect the following types of shipment and receipt programs:

- Purchase orders, blanket orders, and supplier scheduled orders
- Sales orders, sales quotes, pending invoices, and customer scheduled orders
- Return material authorizations
- Distribution orders

Key Features

Using the Logistics Accounting module, you can:

- Define logistics charges for any type of transportation cost and optionally associate them with cost elements for purchase receipts.
- For each charge code, set up accrual, expense, and variance accounts to track transportation costs associated with purchased items. Create detailed accounts for product lines, sites, and supplier types.
- For each charge code, set up accrual, expense, and variance accounts to track transportation costs associated with the shipment of items to customers or other company locations. Create detailed accounts for product lines, sites, and supplier or customer types.
- Set up separate Number Range Management (NRM) sequence codes to identify discrete sales order and distribution order shipments.
- Define terms-of-trade codes and associate them with logistics suppliers.
- Associate freight terms on outbound shipments with a default logistics charge code.
- Optionally update the logistics supplier during shipments and receipts.
- Automatically create the appropriate accrual when a shipment or receipt is processed.
- Create an accrual for each line item on a shipment or receipt or create an accrual for the entire order.
- Match accruals against a logistics supplier's invoice for payment.

New Programs

Table 2.6 lists the new programs added to MFG/PRO eB2 for the Logistics Accounting module.

Table 2.6
New Logistics
Accounting
Programs

Menu Number	Description	Program Name
1.2.21	Logistics Charge Account Menu ...	
1.2.21.1	Inbound Account Maintenance	laiacmt.p
1.2.21.2	Inbound Account Inquiry	laiaciq.p
1.2.21.13	Outbound Accrual Account Maint	laoacrm.t.p
1.2.21.14	Outbound Accrual Account Inquiry	laoacriq.p
1.2.21.16	Outbound Expense Account Maint	laoexpmt.p
1.2.21.17	Outbound Expense Account Inquiry	laoexpiq.p
2.15	Logistics Accounting Menu ...	
2.15.1	Logistics Charge Code Maint	lalcmt.p
2.15.2	Logistics Charge Code Inquiry	lalcicq.p
2.15.4	Terms of Trade Maintenance	latotmt.p
2.15.5	Terms of Trade Inquiry	latotiq.p
2.15.7	Log Charge Pending Voucher Maint	lapvomt.p
2.15.13	Inbound Account Maintenance	laiacmt.p
2.15.14	Inbound Account Inquiry	laiaciq.p
2.15.16	Outbound Accrual Account Maint	laoacrm.t.p
2.15.17	Outbound Accrual Account Inquiry	laoacriq.p
2.15.19	Outbound Expense Account Maint	laoexpmt.p
2.15.20	Outbound Expense Account Inquiry	laoexpiq.p
2.15.24	Logistics Accounting Control	lacpm.p
28.12	Log Charge Pending Voucher Maint	lapvomt.p
28.17.13	Logistics Charge Variance Report	laaprp01.p
28.17.14	Open Logistics Charge Report	laaprp02.p
28.21	Logistics Charge Delete/Archive	aplau.p

Modified Programs

In most transactions that involve moving goods, a new pop-up prompts for a logistics supplier. Table 2.7 lists the programs modified to support Logistics Accounting.

Menu Number	Description	Program Name
2.3.1	Supplier Maintenance	advnmt.p
2.20.13	Freight Terms Maintenance	softrmt.p
5.2.18	Build PO from Requisitions	rqpbld.p
5.3.1	Blanket Order Maintenance	poblmt.p
5.3.6	Blanket Order Release to PO	poblrel.p
5.5.1.13	Scheduled Order Maintenance	rspomt.p
5.7	Purchase Order Maintenance	popomt.p
5.13.1	Purchase Order Receipts	poporc.p
5.13.7	Purchase Order Returns	porvis.p
5.13.13	PO Container Maintenance	rsctmt.p
5.13.20	PO Shipper Receipt	rsporc.p
5.19	Purchase Order Cost Update	poprup.p
7.1.1	Sales Order Maintenance	sosomt.p
7.7.1	Container Workbench	rcctwb.p
7.7.5	SO Container Maintenance	rcctmt.p
7.9.2	Pre-Shipper/Shipper Workbench	rcshwb.p
7.9.5	Pre-Shipper/Shipper Confirm	rcsois.p
7.9.7	Pre-Shipper/Shipper Auto Confirm	rcauis.p
7.9.8	Sales Order Shipper Maintenance	rcshmt.p
7.9.15	Sales Order Shipments	sosois.p
7.9.21	Shipper Unconfirm	rcunis.p
7.12.1	Sales Quote Maintenance	sqqomt.p
7.12.5	Sales Quote Copy from Order	sqqocpy.p
7.12.6	Sales Quote Copy from Quote	sqqoqo.p
7.12.10	Sales Quote Release to Order	sqqoso.p
7.13.1	Pending Invoice Maintenance	soivmt.p
11.7.1.1	RMA Maintenance	fsmamt.p
11.7.1.13	RMA Receipts	fsmais.p

Table 2.7
Programs Modified
by Logistics
Accounting

Menu Number	Description	Program Name
11.7.1.16	RMA Shipments	fsrmash.p
12.17.13	Distribution Order Workbench	dsdomt01.p
12.17.14	Distribution Order Maintenance	dsdomt.p
12.17.21	Distribution Order Processing	dsdomt02.p
12.17.22	Distribution Order Shipments	dsdois.p
28.1	Voucher Maintenance	apvomt.p

Menu Changes

Accounts payable reports and inquiries have been moved to a new Accounts Payable Reports menu (28.17). Table 2.8 lists the structure for the new menu and indicates the previous and current menu positions.

Table 2.8
New Accounts
Payable Reports
Menu (28.17)

Previous Menu	Current Menu	Description
28.11	28.17.1	Voucher/Standard Cost Variance Report
28.12	28.17.2	Voucher/PO Cost Variance Report
28.16	28.17.4	AP Aging by Voucher Date Report
28.17	28.17.5	AP Aging by Due Date Report
28.18	28.17.6	AP Aging as of Effective Date
28.19	28.17.8	AP Batch Report
28.21	28.17.10	Unposted AP-GL Transactions Report
New Report	28.17.13	Logistics Charge Variance Report
New Report	28.17.14	Open Logistics Charge Report

Purchasing and Work Order Accounts

The addition of new purchasing and work order detail accounts, in addition to existing sales and inventory detail accounts, adds flexibility to MFG/PRO eB2 GL account functions.

Business Need

Large, multisite corporations need to be able to effectively manage financial transactions by site for work in process and purchases. This separation supports more accurate cost tracking and fiscal planning.

In addition, two accounts previously grouped with inventory accounts are more logically associated with work orders.

MFG/PRO eB2 Solution

The addition of two new account maintenance functions now lets you specify separate product line accounts for purchasing and work orders, in addition to the existing sales and inventory product line accounts. This improves the accuracy of GL accounts and, therefore, your ability to generate more specific and useful accounting information.

See *User Guide Volume 6: Master Data*.

Specifying purchase and work order accounts by site lets you supervise accounts at multiple sites within single or multiple databases, improving your ability to manage intercompany business for multinational corporations.

Because of their association with work orders, the Work in Process account and Method Variance account have been moved in Product Line Maintenance (1.2.1) from the Inventory Accounts frame to the Work Order Accounts frame.

Key Features

Using the new account features, you can:

- Manage WIP and purchases more effectively.
- Track purchasing accounts by product line, site, and supplier type.
- Track work order accounts by product line and site.

New Programs

Table 2.9 lists the new programs added to MFG/PRO eB2 to support detailed purchasing and work order accounts.

Menu Number	Description	Program Name
1.2.5	Purchasing Account Maintenance	ppplpmt.p
1.2.6	Purchasing Account Inquiry	ppplpiq.p
1.2.7	Purchasing Account Report	ppplprp.p
1.2.9	Work Order Account Maintenance	ppplwmt.p

Table 2.9
New Purchasing
and Work Order
Account Programs

Menu Number	Description	Program Name
1.2.10	Work Order Account Inquiry	ppplwiq.p
1.2.11	Work Order Account Report	ppplwrrp.p

Modified Programs

Product Line Maintenance (1.2.1) has been modified to move two accounts from the Inventory Accounts frame to the Work Order Accounts frame.

All programs throughout the system that reference purchasing and work order accounts have been modified to use a new defaulting logic, as follows:

- First use detail accounts defined in Work Order Account Maintenance (1.2.9) and Purchasing Account Maintenance (1.2.5).
- If these do not exist, use accounts defined in Product Line Maintenance (1.2.1).
- If these do not exist, use accounts defined in System/Account Control (36.1).

Linked-Site Costing

Linked-site costing functions let you specify default source cost sites for items held at multiple sites in one database. You can assign costs for items to specified sites regardless of where the items are produced or stored.

Business Need

Large, multisite businesses need to eliminate duplicate GL cost records at each site to limit overhead and streamline accounting functions without affecting current, simulated, or inactive GL cost sets, or other cost set types.

MFG/PRO eB2 Solution

Linked-site costing lets you link the GL cost of an item that may be produced or held in multiple sites to a primary costing site. This eliminates the need to set up duplicate GL cost records at every site for the same item, streamlining the amount of cost data that you have to set up and manage.

See *User Guide Volume 4A: Financials*.

Linked-site costing is especially useful when items are held in inventory or manufactured at one primary site, but are also held or manufactured at secondary sites. You can assign different primary sites for different product lines, item types, or purchase/manufacture code designations.

Key Features

Using features that support linked-site costing, you can:

- Assign a primary GL cost site to an item stored or manufactured at multiple sites.
- Select rules to determine the default cost site:
 - Linking rule 1 sets the inventory site as the default cost source site.
 - Linking rule 2 sets the site in Item Master Maintenance (1.4.1) as the default cost source site.
 - Linking rule 3 sets any site you designate as the default cost source site.
- Specify default cost source sites by optionally selecting one of three item attributes: product line, item type, or purchase/manufacture code.

New Programs

Table 2.10 lists the new programs added to MFG/PRO eB2 to support linked-site costing.

Menu Number	Description	Program Name
30.18	Linked-Site Costing Menu...	
30.18.1	Linked-Site Rules Maintenance	cslsrmt.p

Table 2.10
New Linked-Site Costing Programs

Menu Number	Description	Program Name
30.18.2	Linked-Site Rules Inquiry	cslsriq.p
30.18.3	Linked-Site Item Browse	csbr005.p
30.18.5	Linked-Site Refresh Utility	cslsru.p

Modified Programs

The user interface for Item-Site Cost Maintenance (1.4.18) has been modified so that you can specify a source cost site.

Table 2.11 lists MFG/PRO eB2 programs modified to support linked-site costing. These programs reference linked, active GL-cost source sites, if available.

Table 2.11
Programs Modified
for Linked-Site
Costing

Menu Number	Description	Program Name
1.1.13	Site Maintenance	icsimt.p
1.4.1	Item Master Maintenance	ppptmt.p
1.4.2	Item Master Inquiry	ppptiq05.p
1.4.9	Item Cost Maintenance	ppptmt03.p
1.4.10	Item-Site Cost Inquiry	ppptiq03.p
1.4.11	Item-Site Master Inquiry	ppptiq00.p
1.4.22	Current Cost Set Move to GL Set	ppcscp01.p
1.4.23	GL Cost Set Move to Current Set	ppcscp02.p
1.5.1	Item Master Report	ppptrp.p
1.5.6	Item Cost Report	ppptrp13.p
1.10.1.1	Price List Maintenance	pppimt.p
1.10.2.1	Price List Maintenance	pppcmt.p
13.12.4	Product Structure Cost Report	bmpsrp01.p
13.12.5	Product Structure Cost Summary	bmpsrp05.p
13.12.13	Product Structure Cost Roll-Up	bmcsru01.p
14.13.13	Routing Cost Roll-Up	rwrru.p
14.13.17	Operation Cost Calculation	rwrru01.p
22.7.9	Detail Forecast Report	ffdfrp.p
22.19	Master Schedule Summary Report	msmsrp.p
23.14	MRP Summary Report	mrmprp11.p
30.9	Cost Set to Site Assignment	cssiup.p

Menu Number	Description	Program Name
30.15.1	Cost Plan by Site Maintenance	csplmt.p
30.15.3	Cost Plan by Site Update	csplup.p
33.7.16	Profit Projection Report	sppfrp.p
36.5.7.4	Logistics Item Cost Export	lgscetex.p
36.5.7.13	Mass Item Export	lgmssyit.p

Conversion

A conversion is required to prepare the database for the new linked-site costing features. This conversion is included in the standard conversion suite and documented in the MFG/PRO eB2 *Conversion Guide*.

Intercompany Accounting

MFG/PRO eB2 provides improved support and reporting for intercompany financial activities.

Business Need

A company with several independent financial units (entities) needs to be able to analyze intercompany balances in terms of the entities associated with the transactions. In addition, multinational organizations want to make payments to suppliers from one or more central banks for invoices from any of their subsidiaries.

In previous releases of MFG/PRO, you can define different intercompany accounts for inventory, accounts payable, accounts receivable, and fixed-asset transactions. However, these accounts are defined for the system as a whole, not for individual entities. The balances in these accounts represent amounts for every entity in the system. This makes it difficult to identify how much of the balance relates to a particular entity.

Many companies want to track accounts payable amounts in the books of the entity that incurred the expense and still have one payment to that supplier for all vouchers. Existing MFG/PRO accounts payable functionality is limited in this regard because the entity incurring the expense must also be associated with the bank making the payment.

MFG/PRO eB2 Solution

▶ See *User Guide*
Volume 4A:
Financials.

Instead of defining system intercompany accounts in separate module control programs, you can now define intercompany accounts for these modules by entity. All intercompany account information for an entity can be found in one maintenance program. For each entity, separate intercompany debit and credit accounts, sub-accounts, and cost centers are defined for the following modules:

- Accounts Payable (AP)
- Accounts Receivable (AR)
- Fixed Assets (FA)
- Inventory Control (IC)

Whenever a GL transaction references more than one entity, the correct intercompany balancing entries are created using the accounts defined for each entity.

Separating intercompany transactions by entity and module supports better analysis of intercompany balances. You can reconcile intercompany balances by comparing the debit and credit balances for each entity, while identifying missing transactions and timing discrepancies.

The restriction preventing payments by one entity for vouchers from another entity has been removed. You can now make a single payment covering all vouchers for a single supplier, irrespective of the voucher entity.

Key Features

Using the intercompany accounting enhancements, you can:

- Set up intercompany accounts by entity and MFG/PRO module (AP, AR, FA, IC).
- Define default intercompany accounts at the system level to simplify the setup of accounts for new entities.
- Analyze intercompany balances by entity and module to assist reconciliation between entities.
- Make a single AP payment covering all vouchers from a supplier, irrespective of the entities that are the source of the vouchers.

- Specify an entity or entity range for most tax and financial reports.
- Specify company address and tax details and associate these details with entities to simplify 1099-MISC tax reporting.

New Programs

Table 2.12 lists the new intercompany accounting report and inquiry programs added to MFG/PRO eB2.

Menu Number	Description	Program Name
25.3.1.3	Intercompany Accounts Inquiry	glenaciq.p
25.3.1.4	Intercompany Accounts Report	glenacrp.p

Table 2.12
New Intercompany
Accounting
Programs

Modified Programs

Every program that references intercompany accounts and AP payments has been modified to support this enhancement. Since these programs represent a significant part of the product, they are not listed individually.

The user interface has been modified in several programs.

- Intercompany account fields have been removed from:
 - Accounts Payable Control (28.24)
 - Accounts Receivable Control (27.24)
 - Fixed Assets Control (32.24)
 - Inventory Control (3.24)
- Intercompany debit and credit account, sub-account, and cost center fields have been added to Entity Code Maintenance (25.3.1) for the Accounts Payable, Accounts Receivable, Fixed Assets, and Inventory Control modules. These accounts are now used by the system to create intercompany balancing entries.
- Default intercompany debit and credit account, sub-account, and cost center fields have been added to System/Account Control (36.1) for the Accounts Payable, Accounts Receivable, Fixed Assets, and Inventory Control modules. These fields provide the intercompany account defaults for Entity Code Maintenance.

- A new Multi-Entity Payments field has been added to Accounts Payable Control (28.24). This field indicates whether payments to suppliers can be made for vouchers created by different entities.
- A new Company field has been added to Entity Code Maintenance that lets you specify a company address for each entity. The address details are used for 1099-MISC tax reporting and printing drafts.
- Three tax detail fields have been added to Company Address Maintenance (2.12). The Tax Filing field lets you specify whether the address is used for 1099-MISC tax filing purposes. You can also enter the IRS name control code and last filing status.
- 1099-MISC Report (28.20.1), 1099-MISC Form Print (28.20.2), and 1099-MISC Magnetic Media Report (28.20.3) no longer require the input of company address and tax details. These details are defined in Company Address Maintenance (2.12) and associated with entities in Entity Code Maintenance.

A number of reports, listed in Table 2.13, have been enhanced to allow selection by entity or range of entities.

Table 2.13
Enhanced
Reporting by Entity

Menu Number	Description	Program Name
2.13.15.13	AR Tax by Transaction Report	txarrp.p
2.13.15.14	AR Tax by Tax Rate Report	txarrp01.p
2.13.15.16	AP Tax by Transaction Report	txaprp.p
2.13.15.17	AP Tax by Tax Rate Report	txaprp01.p
3.21.12	Daybook Trans Accounting Report	icdyacrp.p
3.21.16	Transactions Accounting Report	ictrrp03.p
25.8.20	Daybook Transaction Register	gldyreg.p
28.5	Voucher Hold Report	apvorp03.p
28.14	Supplier Activity (1099) Report	apckrp01.p
28.20.1	1099-MISC Report	ap1099rp.p
28.20.2	1099-MISC Form Print	ap1099pt.p
28.20.3	1099-MISC Magnetic Media Report	ap1099mg.p

Menu Changes

To accommodate the new intercompany report and inquiry programs, a new menu was added to the General Ledger module.

Table 2.14 lists the structure for the new Entity Menu (25.3) and indicates the previous and current menu positions.

Previous Menu	Current Menu	Description
	25.3.1	Entity Menu ...
25.3.1	25.3.1.1	Entity Code Maintenance
25.3.2	25.3.1.2	Entity Code Browse
New	25.3.1.3	Intercompany Accounts Inquiry
New	25.3.1.4	Intercompany Accounts Report

Table 2.14
Entity Menu
Structure

Conversion

The automatic conversion included with MFG/PRO eB2 makes the following changes:

- The company address code associated with each entity is set to the value of Bill To in Purchasing Control (5.24).
- The new intercompany accounts associated with each entity are set to values defined previously in Inventory Control, Accounts Payable Control, Accounts Receivable Control, and Fixed Assets Control.

These defaults can be modified after conversion, as needed.

Improved Financial Reporting

New reports provide increased visibility over financial data and support compliance with regulatory requirements.

Business Need

In some countries, reports to support regulatory requirements are needed. In addition, some businesses need stricter control over the opening and closing of periods in the GL calendar.

MFG/PRO eB2 Solution

MFG/PRO eB2 has been enhanced with a number of new reports that both support national regulatory requirements and provide increased visibility over financial data for all users. A new control setting supports stricter management of GL periods. In addition, users can now apply payments automatically at both the header and line level for Accounts Receivable payments.

Key Features

Using enhanced financial features, you can:

- Use Stock Journal (3.6.18) to validate the movement in inventory balances over a range of dates. The report shows all inventory transactions, together with beginning and ending stock balances.
- Use Unvouchered Receipts as of Date (5.13.10) to report unvouchered purchase order receipts as of a certain date. This improves your ability to reconcile the PO Receipts account with the general ledger.
- Use GL Account Sheet Report (25.15.10) to verify the accuracy of entries in a GL account over a specified time period.
- Use GL Statement of Account (25.15.11) to reconcile GL entries to relevant sub-ledgers. This is a primary document used by auditors in countries such as Italy.
- Control the reopening of GL periods by the new Suppress Reopen Closed Periods setting in General Ledger Control (25.24).
- Automatically apply payments to a customer's open charges at the distribution-line level as well as the header in Payment Maintenance (27.6.4).
- Use a new option in Payment Register (27.6.6) to generate report output for unapplied payments and for non-AR payments.
- Use Invoice Numbering Report (27.22) to report gaps in invoice sequences.
- Use Voucher Numbering Report (28.3.4) to report gaps in voucher sequences.

New Programs

Table 2.15 lists new programs added to MFG/PRO eB2 to support improved financial reporting.

Menu Number	Description	Program Name
3.6.18	Stock Journal	icstjrrp.p
5.13.10	Unvouchered Receipts as of Date	poporp11.p
25.15.10	GL Account Sheet Report	glacshrp.p
25.15.11	GL Statement of Account	glacstrp.p
27.22	Invoice Numbering Report	arivnbrp.p
28.3.4	Voucher Numbering Report	apvonbrp.p

Table 2.15
New Financial
Reports

Modified Programs

Table 2.16 lists programs modified to support improved financial reporting.

Menu Number	Description	Program Name
25.24	General Ledger Control	glcopm.p
27.6.4	Payment Maintenance	arpamt.p
27.6.6	Payment Register	arparp.p

Table 2.16
Modified Financial
Programs

Distribution Enhancements

MFG/PRO eB2 includes the following enhancements to the distribution modules:

- Ability to manage consigned inventory from the point of view of both the company shipping consigned goods to a customer and the company receiving consigned goods from a supplier
- Ability to reserve inventories for specific customers
- Ability to change sites for purchase order line items
- Ability to manage quantities available to promise and related dates
- Expanded control over Enterprise Material Transfer (EMT) functions
- Ability to identify scheduled sales order lines by customer reference and model year

Customer Consignment Inventory

The Customer Consignment Inventory module lets you plan, order, ship, track, and report customer-consigned material while at the same time deferring invoicing and accounts receivable (AR) transactions.

Business Need

Suppliers and customers in close trading partner relationships need integrated information to ensure that adequate inventories exist to fulfill current orders and projected requirements in a timely manner. This information is also needed to make efficient use of storage facilities and plant capacity.

One way to ensure an adequate inventory supply at a customer site is for the supplier to locate their own inventory at a customer site for the customer to use as needed. This approach to maintaining consigned inventory is currently difficult to implement in MFG/PRO. An automated system that synchronizes and reconciles inventories between a manufacturing company and its customers is needed.

▶ See “Supplier Consignment Inventory” on page 49.

Note This is the same issue addressed by the Supplier Consignment Inventory module, which supports the same activity from the point of view of the receiving company. Customer Consignment Inventory approaches the issue from the point of view of the shipping company.

Currently, an MFG/PRO customer is credited when sales order items are shipped, transferring ownership immediately. You cannot delay ownership and prevent the subsequent billing transactions from occurring until the material is actually consumed by the customer.

Because transfer of ownership occurs immediately, managing the return of unused inventory takes multiple steps that are time consuming and error prone.

MFG/PRO eB2 Solution

▶ See *User Guide Volume 2B: Distribution*.

The Customer Consignment Inventory module extends the sales order process by providing new transactions to ship material and identify it as in-transit or consigned. These transactions also delay the standard AR booking process until material is consumed. When the customer notifies the supplier of usage, standard invoice transactions occur.

Customer Consignment Inventory lets suppliers continue to track inventory, even after material has been shipped and while it resides at the customer's facility. This method requires the customer to notify the supplier that inventory has been used, which completes the transfer of ownership.

Using consigned inventory alleviates the need for the supplier to buy back excess material sent to the customer or remaining at the end of the consignment period. Because the supplier still owns the material, any excess is simply returned.

Key Features

Using features of Customer Consignment Inventory, you can:

- Create consigned inventory, inventory offset, and in-transit accounts at the system level, for product lines, or for combinations of sites, locations, and product lines.
- Retain ownership of consigned inventory by deferring invoice and AR transactions until the inventory is used by the customer.
- Track consigned inventory automatically by defining inventory locations for items that are in-transit and items received by a customer.
- Maintain visibility of consigned inventory from shipment through consumption even while it is in-transit or at a customer facility.
- Set up consignment defaults at the system level for the majority of your sales orders and scheduled orders and tailor defaults for individual ship-to addresses and items.
- Separate shipping and billing functions to accurately determine inventory value.
- Create and ship sales and scheduled orders that include both non-consigned and consigned items.
- Automatically replenish inventory as it is used by adding a new line to the current release of a scheduled order.
- Manually adjust inventory transfers if needed.
- Include or exclude consigned material during physical inventory or cycle count.

- Import EDI transmissions to generate consumption records automatically, or manually create records as needed.
- Easily reverse transactions when you have excess, rejected, or returned inventory.
- Improve visibility of consigned inventory information including its location, status, age, and order details.
- Generate reports and inquiries that sort and display details according to your needs:
 - Identify unconsumed material that exceeds its maximum aging date.
 - Compare material shipped with material consumed.
 - Compare material shipped and consumed with material paid for.

New Programs

Table 2.17 lists new programs included in Customer Consignment Inventory.

Table 2.17
Customer
Consignment
Inventory Programs

Menu Number	Description	Program Name
7.18	Customer Consignment Inventory ...	socnstmt.p
7.18.1	Ship-To/Item Controls Maintenance	socnstmt.p
7.18.2	Ship-To/Item Controls Report	socnstrp.p
7.18.4	Consignment Reports Menu ...	
7.18.4.1	Consignment Inventory Report	ppptrp10.p
7.18.4.2	Consignment Inventory by Location	iclorp02.p
7.18.4.3	Consignment Inventory by Order	socnrp01.p
7.18.4.4	Consignment by Order with Sequence	socnrp06.p
7.18.4.7	Aging Inventory Report by Order	socnairp.p
7.18.4.8	Aging Inventory Report by Part	socnair1.p
7.18.4.9	Aging Inventory by Order with Sequence	socnrp07.p
7.18.4.13	Inventory Usage Report	socnrp04.p
7.18.4.14	Authorization Usage Report	socnrp09.p
7.18.4.15	Sequenced Usage Report	socnrp08.p
7.18.4.16	Usage Report by Order	socnrp02.p
7.18.4.17	Usage Report by Order with Sequence	socnrp10.p

Menu Number	Description	Program Name
7.18.7	Consignment Inventory Transfer	socnxfer.p
7.18.10	Aging Inventory Update	socnaimt.p
7.18.11	Aging Inventory Batch Update	socnaiup.p
7.18.13	Inventory Usage Create	socnuac.p
7.18.14	Authorization Usage Create	socnuac3.p
7.18.15	Sequenced Usage Create	socnuac5.p
7.18.16	Usage Inquiry	socnuiq.p
7.18.17	Authorization Usage Inquiry	socnuaiq2.p
7.18.18	Sequenced Usage Inquiry	socnusi.p
7.18.21	Consignment Inventory Adjustment	socnadj.p
7.18.22	Usage Create Undo	socnundo.p
7.18.24	Customer Consignment Control	socncpm.p

Modified Programs

When you activate the Customer Consignment Inventory module, new features are added to existing MFG/PRO programs. The added features help capture, maintain, and report consignment data.

Table 2.18 lists MFG/PRO programs modified for use with the Customer Consignment Inventory module.

Menu Number	Description	Program Name
1.2.1	Product Line Maintenance	ppplmt.p
1.2.2	Product Line Inquiry	pppliq.p
1.2.3	Product Line Report	ppplrp.p
1.2.13	Inventory Account Maintenance	pppldmt.p
1.2.14	Inventory Account Browse	ppbr011.p
1.5.21	Inventory Valuation Report	ppptrp03.p
1.5.22	Inventory Valuation by Location	ppptrp05.p
1.5.23	Inventory Valuation As Of Date	ppptrp06.p
1.5.24	Inventory Valuation As Of by Location	ppptrp07.p
3.4.1	Transfer—Single Item	iclotr02.p
3.4.2	Transfer—Multi Item	iclotr01.p
3.4.3	Transfer with Lot/Serial Change	iclotr03.p

Table 2.18
Programs
Modified for
Customer
Consignment
Inventory

Menu Number	Description	Program Name
3.4.4	Batchload Transfer with Lot/Serial Change	iclotr04.p
3.13	Inventory Cycle/Count Worksheet Print	icccrp.p
3.14	Cycle Count Results Entry	icccaj.p
3.16.1	Item Tag Create	piptcr.p
3.16.21	Inventory Balance Update	piibup.p
7.1.1	Sales Order Maintenance	sosomt.p
7.1.3	Sales Order Print	sosorp05.p
7.3.13	Scheduled Order Maintenance	rcsomt.p
7.3.14	Scheduled Order Inquiry	rcsoiq.p
7.3.15	Scheduled Order Report	rcsorp.p
7.9.5	Pre-Shipper/Shipper Confirm	rcois.p
7.9.15	Sales Order Shipments	sosois.p
7.9.21	Shipper Unconfirm	rcunis.p
7.13.2	Pending Invoice Register	soivrp.p
7.13.3	Invoice Print	sosorp10.p
7.13.23	Invoice History Delete/Archive	soivup.p
25.13.14	Unposted Transaction Register	glutrrp.p
35.1	Document Import	edixsnf.p
36.1	System/Account Control	mgglpm.p
36.17.6	Control Tables Report	mgpmrp.p

Conversion

A conversions is required to prepare the database for customer consignment features. The conversion updates the value of the Consigned Order field (so_consignment) for existing scheduled orders based on the value of a previous field (so_conrep) that is no longer used. This conversion is included in the standard conversion suite and documented in the MFG/PRO eB2 *Conversion Guide*.

Supplier Consignment Inventory

The Supplier Consignment Inventory module lets you plan, order, receive, stock, track, and report supplier-consigned material while at the same time deferring vouchering and accounts payable (AP) transactions. A company using consigned inventory pays for only what they use, not for what they receive.

Business Need

Customers and suppliers in close trading partner relationships need integrated information to ensure that adequate inventories exist to fulfill current needs and projected requirements in a timely manner. This information is also needed to make efficient use of storage facilities and plant capacity.

One way a manufacturer can ensure an adequate inventory supply is to have suppliers locate their own inventory at a manufacturing site to be used as needed. This approach to maintaining consigned inventory is currently difficult to implement in MFG/PRO. An automated system that synchronizes and reconciles inventories between a manufacturing company and its suppliers is needed.

Note This is the same issue addressed by the Customer Consignment Inventory module, which supports the same activity from the point of view of the shipping company. Supplier Consignment Inventory approaches the issue from the point of view of the receiving company.

♦ See
“Manufacturing
Enhancements”
on page 64.

Currently, when a company receives items ordered on a purchase order in MFG/PRO, financial responsibility for payment occurs immediately. You cannot delay ownership and prevent vouchering from occurring until the material is actually consumed.

MFG/PRO eB2 Solution

The Supplier Consignment Inventory module extends the purchase order process by providing new transactions to receive material and identify it as consigned. These transactions also delay the standard AP process until material is consumed but allow the consigned items to be visible for

♦ See *User Guide
Volume 2B:
Distribution.*

planning. When items are consumed in a manufacturing process or because they are shipped to other sites or customers, the receiver becomes available for vouchering.

When consumption is reported back to the supplier, the supplier can transfer liability for the material in their system and issue an invoice, if self-billing is not being used.

Using consigned inventory alleviates the need for the supplier to buy back excess material sent to the customer or remaining at the end of the consignment period. Because the supplier still owns the material, any excess is simply returned.

Key Features

Using features of Supplier Consignment Inventory, you can:

- Create PO consigned inventory and inventory offset accounts at the system level, for product lines, or for combinations of product lines, sites, and supplier types.
- Delay the transfer of ownership of consigned inventory by deferring AP transactions until you use the inventory.
- Determine at the system level whether consigned material should be consumed first or only after non-consigned material is exhausted.
- Set up consignment defaults at the system level for the majority of your purchase orders and supplier scheduled orders and tailor defaults for individual supplier addresses and items.
- Create vouchers for payment of shipping charges immediately, while delaying vouchering for material until it is actually used.
- Indicate for selected sites and locations that inventory transfers should initiate a change in ownership.
- Determine the tax point for consigned material based on settings in the associated tax rate. The tax point can be at receipt, at vouchering, or at consumption.
- Create a purchase order or scheduled order with both non-consigned and consigned items.
- Manually adjust consigned inventory if needed.

- Include or exclude consigned material during physical inventory or cycle count.
- Export EDI transmissions to inform suppliers of item usage, or create records to send manually.
- Retain visibility of consigned inventory information including its location, status, age, and order details.
- Manage and update aging dates.
- Generate reports and inquiries that sort and display details according to your needs:
 - Identify unconsumed material that exceeds its maximum aging date.
 - Compare material received with material consumed.

New Programs

Table 2.19 lists new programs included in Supplier Consignment Inventory.

Menu Number	Description	Program Name
5.18	Supplier Consignment Inventory ...	
5.18.1	Supplier/Item Controls Maintenance	pocnvdmtp
5.18.2	Supplier/Item Controls Browse	pobr014.p
5.18.6	Consignment Inventory Report	ppptrp10.p
5.18.7	Consignment Inventory By Order	pocnrp01.p
5.18.8	Consignment Usage Report	pocnrp02.p
5.18.9	Consignment Usage Summary Report	pocnrp03.p
5.18.10	Consignment Usage Export Report	pocnrp04.p
5.18.13	Aging Inventory Update	pocnaimt.p
5.18.14	Aging Inventory Batch Update	pocnaiup.p
5.18.15	Aging Inventory Report by Order	pocnairp.p
5.18.16	Aging Inventory Report by Part	pocnair1.p
5.18.21	Consignment Inventory Adjustment	pocnadj.p
5.18.24	Supplier Consignment Control	pocnspm.p
35.4.2	Consignment Usage Export	edomsi.p

Table 2.19
Supplier
Consignment
Inventory Programs

Modified Programs

When you activate the Supplier Consignment Inventory module, new features are added to existing MFG/PRO programs. The added features help capture, maintain, and report consignment data.

Table 2.20 lists MFG/PRO programs modified for use with the Supplier Consignment Inventory module.

Note In addition to the listed programs, all programs that create inventory transfers and issues were updated to detect consigned inventory and process it according to consignment rules.

Table 2.20
Programs
Modified for
Supplier
Consignment
Inventory

Menu Number	Description	Program Name
1.1.13	Site Maintenance	icsimt.p
1.1.18	Location Maintenance	iclomt.p
1.2.1	Product Line Maintenance	ppplmt.p
1.2.2	Product Line Inquiry	pppliq.p
1.2.3	Product Line Report	ppplr.p
1.2.5	Purchasing Account Maintenance	ppplpmt.p
1.2.6	Purchasing Account Inquiry	ppplpiq.p
1.2.7	Purchasing Account Report	ppplr.p
1.5.21	Inventory Valuation Report	ppptrp03.p
1.5.22	Inventory Valuation by Location	ppptrp05.p
1.5.23	Inventory Valuation As Of Date	ppptrp06.p
1.5.24	Inventory Valuation As Of by Location	ppptrp07.p
2.13.13.1	Tax Rate Maintenance	txtx2mt.p
3.4.1	Transfer—Single Item	iclotr02.p
3.4.2	Transfer—Multi Item	iclotr01.p
3.4.3	Transfer with Lot/Serial Change	iclotr03.p
3.4.4	Batchload Transfer with Lot/Serial Change	iclotr04.p
3.13	Inventory Cycle/Count Worksheet Print	icccrp.p
3.14	Cycle Count Results Entry	icccaj.p
3.16.1	Item Tag Create	piptcr.p
3.16.21	Inventory Balance Update	piibup.p
5.3.1	Blanket Order Maintenance	poblmt.p
5.7	Purchase Order Maintenance	popomt.p

Menu Number	Description	Program Name
5.10	Purchase Order Print	poporp10.p
5.5.1.13	Scheduled Order Maintenance	rspomt.p
5.5.1.14	Scheduled Order Inquiry	rspoiq.p
5.5.1.15	Scheduled Order Report	rsporp.p
5.5.5.11, 5.13.20	PO Shipper Receipt	rsporc.p
5.13.1	Purchase Order Receipts	poporc.p
28.1	Voucher Maintenance	apvomt.p
36.1	System/Account Control	mgglpm.p
36.17.6	Control Tables Report	mgpmrp.p

Reserved Locations

Using reserved locations can improve your ability to meet the inventory needs of your most important customers.

Business Need

In some environments, customers require rapid turnaround for order shipments and may penalize suppliers for poor delivery performance. When shipping lead time must be minimized, suppliers need to be able to reserve inventory for customers without transferring ownership. This inventory must be readily available for designated customers without risk of being consumed for general orders.

MFG/PRO eB2 Solution

Reserved-location functions let you assign locations and reserve inventories for specified customers without affecting planning or general inventory requirements. You assign locations to specified customers using a new frame added to Location Maintenance (1.1.18).

When you create a sales order for a customer with a reserved location, the reserved location defaults during line-item entry. For other customers, the system automatically blocks sales order line-item entry or shipment from a reserved location.

▶ See *User Guide Volume 6: Master Data*.

Key Features

Using the features of reserved locations, you can:

- Assign locations to hold inventory for specific customers.
- Track inventory and order management by customer.
- Assign a primary location to a customer to serve as the default location in sales orders for specified items.
- Report on reserved-location inventory and detail allocations.

New Programs

Table 2.21 lists new programs added to MFG/PRO eB2 to support reserved locations.

Table 2.21
New Reserved-
Locations Programs

Menu Number	Description	Program Name
2.1.9	Reserved Location Menu...	
2.1.9.1	Reserved Location Maintenance	adrlmt.p
2.1.9.2	Reserved Location Browse	icbr013.p
2.1.9.3	Reserved Location Report	adrlrp.p
2.1.9.5	Detail Allocations Inventory Inquiry	icrliq.p
2.1.9.6	Detail Allocations Inventory Report	icrlrp.p

Modified Programs

The following programs have been modified to support reserved locations:

- A new frame was added to Location Maintenance (1.1.18) for specifying reserved locations.
- The programs for creating and modifying sales quotes and orders, picking and allocating items, and shipping orders have been modified to recognize and use inventory from reserved locations for designated customers.
- Other programs that allocate and issue inventory have been modified to ensure that reserved inventory is not used.

Purchase Order Enhancements

Purchase Order Maintenance (5.7) has been enhanced to allow changes to the delivery site for individual line items. In addition, the relationship between line-item quantities on blanket orders and their associated released orders has been improved.

Business Need

After a purchase order (PO) has been created, demand may change for items listed on the order. The planner may need to change the order quantity for an item or redirect the delivery of an item to a different site than originally planned. This is particularly likely when ordering items with a long lead time. Currently, the order-line site cannot be modified for an existing line and additional restrictions exist when a PO is created by releasing a blanket order.

MFG/PRO eB2 Solution

The ability to modify line items in Purchase Order Maintenance (5.7) has been expanded to allow changes to the delivery site for individual items on POs created manually as well as those created by releasing a blanket order. Changing a delivery site on a released PO is restricted to line items without receipts posted against them.

▶ See *User Guide Volume 2A: Distribution*.

The relationship between the order quantity of line items on released POs and the total quantity released on the parent blanket order has also been enhanced. If the order quantity on the released PO is changed, the system checks to see if the new quantity exceeds the open quantity on the parent blanket order. If it does not, the quantity released on the blanket order is automatically updated.

Key Features

In Purchase Order Maintenance (5.7), you can:

- Change the ship-to site for line items on POs released from blanket orders, created manually, or generated by PO returns.
- Change the order quantity of line items on a released PO and automatically update the released quantity for the item on the parent blanket order.

Modified Programs

Table 2.22 lists the MFG/PRO eB2 programs modified to support purchase order enhancements.

Table 2.22
Programs Modified
for Purchase Order
Enhancements

Menu Number	Description	Program Name
5.3.1	Blanket Order Maintenance	poblmt.p
5.7	Purchase Order Maintenance	popomt.p

ATP Enforcement

Available-to-promise (ATP) enforcement functions have been added to MFG/PRO eB2 to let you control order processing of items based on their projected availability. Order programs are connected with the master schedule and planning functions to let you determine how to process orders for items that may be in short supply.

▶ See “Advanced Planning and Optimization Available to Promise” on page 121.

Note Separate, optional ATP features also have been added to the interface between MFG/PRO eB2 and the Advanced Planning and Optimization applications from Adexa, Inc.

Business Need

To ensure that adequate inventories exist to fulfill orders, businesses need to know how current orders and planning functions affect projected inventories. Without this information, orders might be confirmed without sufficient inventory to ship by the due date. In addition, lack of integrated information about current demand and future planning limits the ability to modify planning to meet projected inventory requirements on time.

MFG/PRO eB2 Solution

▶ See *User Guide Volume 2A: Distribution*.

The ATP enforcement functions provide an effective tool to control inventory order processing. For critical items, especially those in short supply, you can set up ordering restrictions based on cumulative ATP, and you can immediately revise an order to reflect projected inventory availability. Furthermore, by increasing your ability to monitor ATP for specified items, you can quickly revise the master schedule to meet increased demand.

Key Features

Using ATP enforcement features, you can:

- Determine how order lines are processed for items that are projected to be in short supply. Use Item Master Maintenance (1.4.1), Item-Site Planning Maintenance (1.4.17), and the ATP Enforcement Level Utility (7.1.19.1) to determine enforcement levels for specified items.
- Enforce ATP rules in sales order, material order (MO), and return material authorization (RMA) functions. Depending on the level you select, the system either warns you or prevents you from processing a confirmed order when ATP is insufficient.
- Review cumulative ATP in the Master Schedule Summary Inquiry (22.18) and the Master Schedule Summary Report (22.19).
- Create an exception report that compares the quantity and time period on the master production schedule with sales order line-item quantities and due dates.

ATP enforcement also adds the following transit-time features:

- Define transit times between your sites and customer addresses.
- Automatically calculate a promise date in order functions based on required transit time.

New Programs

Table 2.23 lists new programs created for enhanced ATP functionality.

Menu Number	Description	Program Name
2.16	Delivery Transit Time Menu...	
2.16.1	Delivery Transit Time Maintenance	sodtmt.p
2.16.2	Delivery Transit Time Browse	sobr020.p
2.16.3	Delivery Transit Time Report	sodtrp.p
7.1.19	ATP Enforcement Menu...	
7.1.19.1	ATP Enforcement Level Utility	utatp.p
7.1.19.2	ATP Enforcement Check	soatpiq.p
7.1.19.3	ATP Enforcement Exception Report	soatprp.p

Table 2.23
New ATP Programs

Modified Programs

Table 2.24 lists programs significantly modified by enhanced ATP functionality.

Table 2.24
Programs Modified
for ATP
Enforcement

Menu Number	Description	Program Name
1.4.1	Item Master Maintenance	ppptmt.p
1.4.17	Item-Site Planning Maintenance	pppsmt02.p
7.1.1	Sales Order Maintenance	sosomt.p
7.1.5	Sales Order Confirmation	sosoco.p
7.1.24	Sales Order Control	sosopm.p
10.7.1, 11.11.1	Material Order Maintenance	fseomt.p
10.7.2, 11.11.2	Material Order Confirmation	fseoco.p
11.7.1.1	RMA Maintenance	fsrmamt.p
11.7.1.6	RMA Confirmation	fsrmaco.p
22.18	Master Schedule Summary Inquiry	msmsiq.p
22.19	Master Schedule Summary Report	msmsrp.p
23.14	MRP Summary Report	mrmprp11.p

EMT Enhancements

Enterprise Material Transfer (EMT) is the MFG/PRO module that enables you to automatically generate purchase orders from sales orders and transmit them to lower levels of the supply chain, where they can be automatically converted to secondary sales orders. Electronic document interchange (EDI) features let you exchange EMT business documents with your trading partners up and down the supply chain with EDI ECommerce.

▶ See “Electronic Data Interchange (EDI)” on page 86 for details.

Note With the retirement of EDI, you can use MFG/PRO’s enhanced EDI solution, EDI ECommerce, to exchange documents among trading partners. The table-driven approach employed by EDI ECommerce adds flexibility to the trading partner and document setup process.

The EMT module has been updated in several areas to add functionality to MFG/PRO eB2.

Business Need

EMT users require additional features to increase the module's flexibility so they can tailor EMT more specifically to the needs of individual business models.

MFG/PRO eB2 Solution

The new additions to EMT provide significant new functionality by letting users control more aspects of how EMT orders are dealt with by the various levels of the supply chain. The design of the new features is completely flexible, since new control settings let businesses choose which—if any—of the new features are appropriate for their EMT models.

▶ See *User Guide Volume 2A: Distribution*.

Key Features

Using enhanced features of EMT, you can:

- Control whether changes can be made to a primary EMT sales order after the supplier has transmitted status changes related to its secondary sales order. Previously, the primary sales order could not be modified after the supplier sent any status change.

New fields in Sales Order Control (7.1.24) let you specify individual settings for three kinds of status changes on the secondary sales order:

- Supplier has picked the order.
- Supplier has shipped the order.
- Configured item has been released to a work order.
- Modify the order configuration of a configured item; for example, changing an optional feature. MFG/PRO eB2 now sends the change to the supplier so that the secondary sales order can be updated.

Before this enhancement, the system would accept only modifications to a configured order line that did not affect the configuration of the item.

- Automatically process PO shippers on EMT direct-shipment items. Based on the setting of a new Automatic PO Receipt field in Supplier Maintenance (2.3.1), the system automatically receives the PO shipper when it imports the supplier's advance ship notice (ASN) indicating that the order has been sent to the end customer.

Previously, you had to process the ASN manually using PO Shipper Receipt (5.13.20) even for EMT direct-shipment orders, on which no actual items are received.

- Maintain a much higher level of synchronization between the primary sales order and the supplier's secondary sales order. Many more types of changes to the primary sales order now result in updates to the EMT purchase order, which are communicated to the lower-level business unit.
- Take advantage of improved comment management. Order comments entered at lower-level business units are now preserved when the system imports a change from a higher-level business unit. Previously, modified orders would overwrite existing comments.

Modified Programs

Table 2.25 lists menu-level programs that have had fields added to support enhanced EMT functionality.

Table 2.25
Programs Modified
for EMT
Enhancements

Menu Number	Description	Program Name
2.3.1	Supplier Maintenance	advnmt.p
7.1.24	Sales Order Control	sosopm.p

Multiple Customer Items

The programs that manage customer scheduled orders and shipper data have been modified to support additional ways of identifying order lines. Previously, these lines were differentiated using the fields Ship From, Ship To, Item, and PO Number. MFG/PRO eB2 adds two new fields that provide an additional means to distinguish scheduled order lines.

Business Need

In some trading relationships, a supplier ships the same MFG/PRO item number to satisfy demand for several different customer item numbers. In these situations, a one-to-one relationship does not exist between the item number ordered by the customer and the item number shipped by the supplier.

Programs that manage scheduled orders and shipper data previously allowed only one internal item per customer purchase order (PO) for any given ship-to address. This prevented a supplier from having multiple instances of a particular internal item number that satisfied various customer item numbers.

To accommodate this limitation, a supplier had to create additional internal part numbers for each customer revision level. This maintenance activity required costly resources and could result in thousands of additional parts in the system.

MFG/PRO eB2 Solution

Programs that manage customer schedules and shipper data have been modified so that additional data can be specified to uniquely identify a scheduled order line.

Two new fields—Customer Reference and Model Year—have been added to programs that create and update scheduled order lines. The two fields are also added to functions that access, maintain, and report scheduled order lines and their related documents, such as invoices.

Using the two new fields to distinguish multiple lines on the same scheduled order, suppliers can indicate that one internal item satisfies the demand for more than one customer item. As a result, one scheduled order can have the same internal item number, ship-to, and customer purchase order number for different customer items.

Each company can decide whether to require that the value entered for customer reference is a valid customer item. This decision is determined by a new control option in Customer Schedules Control (7.3.24) and Container/Shipper Control (7.9.24). The control setting defaults to Scheduled Order Maintenance (7.3.13), where it can be modified.

Key Features

Using the features supporting multiple customer items, you can:

- Uniquely distinguish each line of a multiple-line scheduled order, using the same internal item number, customer PO, and ship-to, but different customer item numbers and model years.
- Select a particular scheduled order line item by customer reference and model year in functions that access, maintain, and report scheduled order lines.
- Determine whether customer references must be valid customer item numbers.
- Print or display customer references and model years on reports and inquiries.
- Browse customer references and model years for all functions that identify scheduled sales order lines.

Modified Programs

Table 2.26 lists the programs in MFG/PRO eB2 modified to support multiple customer items.

Table 2.26
Programs Modified
for Multiple
Customer Items

Menu Number	Description	Program Name
7.3.13	Scheduled Order Maintenance	rcsomt.p
7.3.14	Scheduled Order Inquiry	rcsoiq.p
7.3.15	Scheduled Order Report	rcsorp.p
7.3.24	Customer Schedules Control	rcpm.p
7.5.1	Customer Plan Schedule Maintenance	rcpsmt.p
7.5.2	Customer Ship Schedule Maintenance	rcssmt.p
7.5.3	Required Ship Schedule Maintenance	rcrsmt.p
7.5.5	Required Ship Schedule Update	rcrsup.p
7.5.6	Selective Required Ship Schedule Update	rcrssup.p
7.5.8	Schedule Inquiry	rciq01.p
7.5.9	Schedule History Inquiry	rciq02.p
7.5.10	Schedule Report	rcrp01.p
7.5.11	Schedule Comparative	rcrp02.p
7.5.12	Schedule Authorization Report	rcrp03.p

Menu Number	Description	Program Name
7.5.13	Req Ship Schedule Summary Report	rcrp07.p
7.5.14	Req Ship Schedule Detail Report	rcrp09.p
7.5.16	Cumulative Shipped Maintenance	reccadj.p
7.5.18	Cum Shipped Reset	recup01.p
7.5.20	Shipment History Report	rcrp08.p
7.5.23	Schedule Delete/Archive	rcdel.p
7.7.5	SO Container Maintenance	rcctmt.p
7.9.1	Picklist/Pre-Shipper–Automatic	sososl.p
7.9.2	Pre-Shipper/Shipper Workbench	rcshwb.p
7.9.3	Pre-Shipper/Shipper Inquiry	rciq03.p
7.9.4	Pre-Shipper/Shipper Print	rcrp13.p
7.9.5	Pre-Shipper/Shipper Confirm	rcsois.p
7.9.6	Pre-Shipper/Shipper Report	rcshrp01.p
7.9.8	Sales Order Shipper Maintenance	rcshmt.p
7.9.9	Sales Order Shipper Print	rcrp11.p
7.9.22	Shipper Gateway	rcshgw.p
7.9.23	Shipper Delete/Archive	rcscdel.p
7.13.3	Invoice Print	sosorp10.p
7.13.4	Invoice Post	soivpst.p
7.13.12	Closed Invoice Reprint	soivrp10.p
7.13.13.1	Retrobill Maintenance	rcrbmt.p
7.13.13.2	Retrobill Inquiry	rcrbiq.p
7.13.13.3	Retrobill Report	rcrbp01.p
7.13.13.4	Retrobill History Report	rcrbp02.p
27.6.12.1	Self-Bill Maintenance	arsbmt.p
27.6.12.4	Self-Bill Auto Create	arsbac.p
27.6.12.10	Self-Bill Discrepancy Report	arsbrp02.p
27.6.12.11	Invoice/Memo AR Balance Report	arsbrp.p
27.6.12.13	Self-Bill Report	arsbsirp.p
27.6.12.15	Shipment-Invoice Cross Reference Report	arsbsirp.p
35.1	Document Import	edixsnf.p
35.4.1	Shipment ASN Export	edomasn.p
35.4.3	Invoice Export	edominv.p

Manufacturing Enhancements

MFG/PRO eB2 includes the following enhancements to the manufacturing modules:

- Addition of flow scheduling
- Managing transactions through kanban controls
- Enhanced control of work orders by site
- Increased control over dates in the work order life cycle
- Improved MRP and DRP performance with Progress AppServer

Flow Scheduling

The Flow Scheduling module has been added to generate time-phased, sequenced statements of production requirements for production lines in a flow manufacturing environment.

Business Need

The principles of flow manufacturing are being followed by an increasing number of manufacturing companies. Every manufacturing facility is part of a larger supply chain. Ultimately, the processes used by major customers and suppliers affect the processes used at a manufacturing site. As a result, manufacturers of all sizes are evaluating their manufacturing processes as part of an overall effort to reduce costs, shorten delivery times, and improve quality and customer satisfaction in order to maintain or gain a competitive edge.

MFG/PRO users want tools that support the overall flow manufacturing goal of decreasing inventory, lot sizes, and cumulative product lead time; reducing activity that does not add value; and increasing customer satisfaction levels.

MFG/PRO eB2 Solution

A new Flow Scheduling module has been added to specifically address the needs of flow manufacturing.

▶ See *User Guide Volume 3: Manufacturing*.

Key Features

Using the new flow scheduling functionality, you can:

- Indicate items that are produced using flow schedules.
- Create flow schedules manually using a menu program.
- Import MRP planned work orders into flow schedules.
- Link flow scheduled orders with demand orders—sales orders, customer scheduled orders, material orders, and return material authorization (RMA) issues—by referencing the demand order on the flow schedule.
- Link existing standard work orders with flow schedules by referencing the work order number and ID. The system then synchronizes due dates, quantities ordered, and quantities completed between the Flow Scheduling module and the Work Orders module.
- Define flex fences to determine if the total amount of a future schedule is within a realistic variance from the total current amount.
- Review time usage and machine usage in a schedule.
- Define flow rate codes that let you review and adjust flow production levels based on alternative scenarios such as adding an extra machine to the line.
- Export flow schedules to repetitive production schedules.
- Record production receipts, as well as backflush components and labor, from a flow production line.
- Generate linearity summaries to measure how well actual production rates track planned rates.

Menu Changes

To accommodate the new Flow Scheduling programs, several Shop Floor Control reports and inquiries have been moved to a new menu.

Table 2.27 lists the structure for the new menu and indicates the previous and current menu positions.

Table 2.27
Shop Floor Reports

Previous Menu	Current Menu	Description
New	17.13	Shop Floor Reports Menu...
17.8	17.13.8	Operation Transaction Browse
17.9	17.13.9	Operation Transaction Detail Inquiry
17.10	17.13.10	Operations Accounting Report
17.11	17.13.11	Input/Output Inquiry
17.12	17.13.12	Input/Output Report
17.13	17.13.13	Operations by Work Center Report
17.14	17.13.14	Operations by Work Order Report
17.15	17.13.15	Operations by Employee Report
17.16	17.13.16	Down Time Report
17.17	17.13.17	Down Time by Reason Report
17.18	17.13.18	Work Center Utilization Report
17.19	17.13.19	Efficiency by Work Center Report
17.20	17.13.20	Efficiency by Work Order Report
17.21	17.13.21	Efficiency by Employee Report

New Programs

Table 2.28 lists the new flow scheduling programs.

Table 2.28
Flow Scheduling
Programs

Menu Number	Description	Program Name
17.21	Flow Menu...	
17.21.1	Flow Setup Menu...	
17.21.1.1	Schedule Period Maintenance	kbpmt.p
17.21.1.2	Schedule Period Browse	kbb001.p
17.21.1.4	Production Line Maintenance	flplmt.p
17.21.1.5	Production Line Browse	flbr004.p

Menu Number	Description	Program Name
17.21.1.7	Production Line Item Maintenance	flplimt.p
17.21.1.8	Production Line Item Browse	flbr006.p
17.21.1.10	Flex Fence Maintenance	flffmt.p
17.21.1.13	Rate Code by Item Maintenance	flcimt.p
17.21.1.14	Rate Code by Item Browse	flbr011.p
17.21.1.16	Rate Code by Type/Group Maintenance	flrcgmt.p
17.21.1.17	Rate Code by Item Type Browse	flbr012.p
17.21.1.18	Rate Code by Item Group Browse	flbr013.p
17.21.1.19	Schedule Code Maintenance	flscmt.p
17.21.1.22	Work Ctr/Location Maintenance	pppoulmt.p
17.21.3	Flow Schedule Maintenance	flschmt.p
17.21.5	Flow Schedule Copy	flschcp.p
17.21.7	Flow Schedule Receipts	flschrc.p
17.21.9	Import MRP Orders to Schedule	flimpmrp.p
17.21.10	Export Schedule to Repetitive	flexprep.p
17.21.13	Flow Inquiry and Reports Menu...	
17.21.13.1	Linearity Summary Inquiry	fllniq.p
17.21.13.2	Linearity Summary Report	fllnrp.p
17.21.13.7	Flow Schedule View	flscvw.p
17.21.13.10	Flow Schedule Detail View	flscdv.p
17.21.13.11	Flow Schedule Detail Report	flscdrp.p
17.21.19	Flow Schedule Close	flschcl.p
17.21.23	Flow Delete/Archive	flschup.p
17.21.24	Flow Control	flpm.p

Modified Programs

Several programs were changed in the Work Orders and Shop Floor Control modules to prevent users from updating system-maintained work orders generated from flow schedules.

Conversion

▶ See the MFG/PRO eB2 *Conversion Guide*.

If you have set up generalized codes for the Purchase/Manufacture field, you must add W (flow) as a valid code using Generalized Codes Maintenance (36.2.13). You can modify Purchase/Manufacture codes for existing items one at a time using item maintenance functions (1.4.1, 1.4.7, and 1.4.17), or use a batch load file to update some or all of them automatically.

Kanban Transactions

New features in MFG/PRO eB2 let you enter transactions that track and manage the movement of kanban-controlled items into and out of inventory.

Business Need

To improve response to customer demand, many companies are implementing demand pull or flow manufacturing. A basic component of flow manufacturing is the management of inventory through the use of kanbans or pull signals.

As kanban containers are emptied, visual signals must be converted to electronic replenishment signals. Currently, kanban replenishment is performed by manually entering work orders and schedules or purchase orders and supplier schedules when a kanban signal is delivered to the appropriate buyer or planner. This process is labor intensive, prone to data entry errors, and in many cases cannot be performed in a timely manner.

MFG/PRO eB2 Solution

▶ See *User Guide Volume 3: Manufacturing*.

To improve the speed and accuracy of the data-entry process, you can now print kanban cards with a barcode. Kanbans can be entered into the system manually or scanned with a barcode reader.

In order to automate the transaction process associated with kanban management, MFG/PRO eB2 now executes the kanban signal for three types of kanban transactions:

- Purchase receipts
- Item movement
- Production receipts

Based on the Kanban definition, the system optionally creates the appropriate inventory and GL transactions for each type of kanban transaction. Kanban return transactions signal the system to move empty kanban containers back to the item supplier or point of replenishment.

Kanban transaction records are used to generate dispatch lists to return groups of empty kanbans to the supplier or supplying site for replenishment. For example, you can generate a dispatch list for all empty kanbans that need to be returned to a specific supplier or a dispatch list of all kanbans that need to be picked up at a production location. A dispatch list can be sent to the appropriate supplier automatically by fax or e-mail. When dispatch lists are created for purchased items, purchase orders (POs) can be assigned and released automatically.

Key Features

Using the kanban enhancements, you can:

- Print barcodes on kanban cards.
- Scan barcodes on kanban cards to assist in the data-entry process.
- Enter transactions to record purchase receipts, item movement, and production receipts of kanban-controlled items. Each kanban references the item's supplying source and consuming destination to assist in automatically generating inventory and GL transactions.
 - A purchase receipt transaction automatically creates a PO receipt transaction and generates the appropriate inventory and GL transactions.

- An item movement transaction automatically creates an inventory transfer from the supplying source to the consuming destination and generates appropriate GL transactions.
- A production receipt transaction receives finished goods into the consuming destination. If the kanban is set up to backflush components, the items on the bill of material are backflushed from the supplying source.
- Enter transactions to return empty kanbans from the consuming destination to the supplying source. A kanban return transaction does not affect inventory balances.
- Create dispatch lists from kanban transaction records. Dispatch lists can be printed in report or fax format, or sent using e-mail. When a dispatch list is created for a purchase receipt kanban with an associated blanket order, a PO can be automatically assigned and released.
- Automatically fax dispatch lists to suppliers using a third-party fax management product. The automatic fax functionality in MFG/PRO eB2 provides the interface to the third-party product.
- Generate a list of missing kanbans.
- View all kanban transactions and, optionally, any associated inventory transactions for a kanban-controlled item, kanban master record, or kanban card.
- Generate a report comparing the system-recommended number of kanban cards in a kanban loop to the actual number of cards.
- Activate or deactivate individual kanban cards to adjust for changes in demand.

New Programs

To accommodate the new kanban transaction programs, a new Kanban Transactions menu was added to the Kanban module. Table 2.29 lists the new programs added to the Kanban menu.

Table 2.29
New Kanban
Programs

Menu Number	Description	Program Name
17.22.19	Kanban Transactions Menu...	
17.22.19.1	Execute Kanban Transactions	kbextr.p

Menu Number	Description	Program Name
17.22.19.2	Return Kanban Transactions	kbrtrr.p
17.22.19.4	Transaction Inquiry by Trans Nbr	kbtriq.p
17.22.19.5	Transaction History Browse	kbbr008.p
17.22.19.7	View Transactions by Item	kbtriq1.p
17.22.19.8	View Transactions by Kanban Mstr	kbtriq2.p
17.22.19.9	View Transactions by Kanban Card	kbtriq3.p
17.22.19.13	Kanban Dispatch List Processing	kbsdrp.p
17.22.19.15	Kanban Transactions Audit Report	kbtrrp.p
17.22.19.18	Missing Kanbans Report	kbmirp.p
17.22.19.23	Transaction Delete/Archive	kbtrup.p
17.22.21	Kanban Card Activate/Inactivate	kbcdmr.p
17.22.24	Kanban Card Audit Report	kbcdrp.p

Modified Programs

Table 2.30 lists programs modified to support kanban transactions.

Menu Number	Description	Program Name
17.22.1	Kanban Master Maintenance	kbbmt.p
17.22.2	Kanban Master Inquiry	kbbiq.p
17.22.3	Kanban Master Report	kbbbrp.p
17.22.5	Kanban Master Copy	kbbcp.p
17.22.7	Planning Period Maintenance	kbpmt.p
17.22.15	Kanban Card Size/Print	kbszmt.p
17.22.16	Kanban Card Inquiry	kbsziq.p
17.22.17	Kanban Card Reprint	kbszrp01.p
17.22.24	Kanban Control	kbp.m

Table 2.30
Programs Modified
for Kanban
Transactions

Conversion

A conversion is required to update existing kanban data to support new features of kanban transactions. This conversion is included in the standard conversion suite and documented in the MFG/PRO eB2 *Conversion Guide*.

Work Order Control by Site

MFG/PRO eB2 now provides greater control over processes in the Work Orders module for companies that have multiple sites in one physical database.

Business Need

When QAD customers have two or more manufacturing sites within one physical database, they are often managed by different production controllers or planners.

However, many work order programs let users select a range of orders to process without regard to site. These are not merely reports, but include processes that change order status and other order information. When a database has multiple sites, it is important that planners update only the orders for which they are responsible. In most cases this means restricting order update to a single site.

MFG/PRO eB2 Solution

▶ See *User Guide*
Volume 3:
Manufacturing.

The programs listed in Table 2.31 have been modified to include either a site selection or a site range selection. Site security, defined in Site Security Maintenance (36.3.16), is checked for all programs that update the database. If the site selection is blank, the user must have access to all sites. Users with access to only specific sites must run the programs by limiting the site selection appropriately.

Key Features

Using enhanced work order control by site features in MFG/PRO eB2, you can:

- Ensure that site security defined in Site Security Maintenance (36.3.16) is applied consistently in work order update programs.
- Ensure that users cannot accidentally update orders for which they are not responsible.

Modified Programs

Table 2.31 lists the programs modified in MFG/PRO eB2 to support enhanced work order control by site.

Menu Number	Description	Program Name
16.3.1	Work Order by Order Report	woworp.p
16.3.3	Work Order Status Report	woworp02.p
16.3.4	Work Order Cost Report	woworp05.p
16.3.6	Work Order History Report	woworp03.p
16.7	Multiple WO Release/Print	woworl01.p
16.8	Multiple WO Status Change	wowomt01.p
16.13.2	Work Order Bill Browse	wobr002.p
16.13.3	Work Order Bill by Order Report	wowarp01.p
16.13.4	Work Order Bill by Item Report	wowarp.p
16.13.15	Work Order Routing Report	woopr.p
16.15	Work Order Bill Shortage Inquiry	wowsiq.p
16.16	Work Order Bill Shortage Report	wowsrp.p
16.17	Work Order Bill Shortage by Item	wowsrp01.p
16.21	Work Order Accounting Close	wowocl.p
16.22	WIP Material Cost Revaluation	wocswip.p
16.23	Work Order Delete/Archive	wowoup.p

Table 2.31
Programs Modified
for Work Order
Control by Site

Work Order Dates

The system now records a work order close date and receipt date, as well as the user ID of the person who closed and received a work order.

Business Need

A work order contains the date when it was released, which indicates when production starts. Some businesses want to track the date the work order closes to indicate when production finishes.

For work order receipts, MFG/PRO currently provides a GL effective date. However, a GL effective date is not associated with the change in status of a work order when it is closed. As a result, significant dates in the work order life cycle cannot be easily reported.

Note The work order close date is not the same as the accounting close date. The accounting close date could be at a period end, which could be weeks after a work order close date. GL period control does not apply to work order close and receipt dates.

MFG/PRO eB2 Solution

▶ See *User Guide Volume 3: Manufacturing*.

Work order receipt and close dates and the associated user ID are now captured automatically during receipt or when a work order is closed through the following programs:

- Work Order Maintenance (16.1)
- Multiple WO Status Change (16.8)
- Work Order Receipts (16.11)
- Work Order Receipt Backflush (16.12)
- Work Order Operation Backflush (16.19)

This information can be viewed on two reports:

- Work Order Status Report (16.3.3)
- Work Order History Report (16.3.6)

Enabling the system to record and display work order close and receipt dates provides a key performance indicator (KPI) for reporting purposes. Work order receipt dates can now be compared to work order close dates directly, without deriving these dates from other dates captured by the system in transaction history.

Note Work order close and receipt dates are recorded on discrete work orders only. Scheduled and cumulative work orders, created through Repetitive and Advanced Repetitive, do not include this feature.

Key Features

Using the features introduced by this enhancement, you can:

- Automatically capture work order close and receipt dates as well as the user ID of the person associated with the action.
- Review work order close and receipt dates and the associated user ID on the Work Order Status Report (16.3.3) and Work Order History Report (16.3.6).

Modified Programs

Table 2.32 lists the programs modified in MFG/PRO eB2 to support the capture of work order close and receipt dates.

Menu Number	Description	Program Name
16.1	Work Order Maintenance	wowomt.p
16.8	Multiple WO Status Change	wowomt01.p
16.11	Work Order Receipt	woworc.p
16.12	Work Order Receipt Backflush	wowoisrc.p
16.19	Work Order Operation Backflush	wobkfl.p
16.3.3	Work Order Status Report	woworp02.p
16.3.6	Work Order History Report	woworp03.p

Table 2.32
Programs Modified
for Work Order
Dates

Improved MRP and DRP Performance

MFG/PRO eB2 now provides the ability to use a Progress Application Server (AppServer) to speed up MRP and DRP processing by multithreading MRP/DRP sessions across multiple processors. This provides significantly better performance than the current method of synchronizing calculations among multiple processors.

Business Need

Running MRP and DRP sessions for large databases with multiple sites can be extremely time-consuming. QAD customers in both Progress and Oracle environments need a way to take advantage of multiple-processor computers to perform MRP and DRP calculations more efficiently.

MFG/PRO eB2 Solution

In MFG/PRO Progress and Oracle environments, you can define AppServer instances that use multithreading to distribute the processing load among multiple processors. New control fields let you enable this feature, as well as indicate the default number of threads to be used during an MRP or DRP session. You can also update the number of threads each time you run MRP or DRP to a number appropriate to the current load on the system.

See *User Guide
Volume 3:
Manufacturing.*

Key Features

By using an AppServer to run MRP or DRP in MFG/PRO eB2, you can:

- Take advantage of multi-processor computers to make MRP or DRP run faster in both Progress and Oracle environments.
- Use control settings to enable this feature individually for MRP or DRP or both.
- Set a default number of threads for MRP and DRP sessions based on the typical load on your computer system.
- Update the number of available threads each time you run MRP or DRP based on the current processing load.

Modified Programs

Table 2.33 lists the programs modified in MFG/PRO to support improved MRP and DRP performance.

Table 2.33
Programs Modified
for Improved MRP
and DRP
Performance

Menu Number	Description	Program Name
12.13.1	Net Change Distribution Plan	drmpnc.p
12.13.2	Regenerate Distribution Plan	drmpup.p
12.13.3	Selective Distribution Plan	drmpnc.p
12.13.24	DRP Control	drppm.p
23.1	Net Change Materials Plan	mrmnpnc.p
23.2	Regenerate Materials Plan	mrmnpup.p
23.3	Selective Materials Plan	mrmnpnc.p
23.24	MRP Control	mrmrppm.p

Customer Services Enhancements

MFG/PRO eB2 includes the following enhancements to the customer services modules:

- Major enhancements to service contracts to support many end users on one contract and more flexible billing options
- More flexible ordering of material for projects

Enhancements to Service Contracts

The Service/Support Management (SSM) module has been enhanced with major changes to service contract features that offer more options for designing contracts, generating contract billing, and managing the GL effects of contracts.

Business Need

Large, multisite corporations require an increasingly complex contract structure. Contracts designed for a customer with a single end user are inadequate to address these requirements. Large corporations rely on the ability to create national or regional contracts for a range of end users.

In addition, some companies look at contracts from the point of view of the items covered, rather than end users. They need a more flexible design that minimizes data entry when there are many end users for a few items.

The current approach to contract billing is too limited to support complex contracts. Business managers need the flexibility to manage contract billing at the service line-item level. Contract lines should let managers assign different billing cycles to reflect a variety of service relationships with a customer on the same contract. In some cases, companies want to bill a single customer, but in other cases, each end user is responsible for billing.

Also, to follow currently accepted accounting practices, businesses need accrued or deferred accounts for tracking contract revenue. Currently, MFG/PRO offers only cash-basis accounting. General ledger postings must be managed manually to accommodate other accounting requirements.

MFG/PRO eB2 Solution

▶ See *User Guide Volume 8: Service/Support Management*.

Major enhancements to service contracts in the SSM module support a wide range of new features that let you design powerful and complex service coverage relationships.

Contracts previously were designed as two levels. Customer and end user existed at the header level and line items existed at the detail levels.

Contracts now include three levels of hierarchy that support two contract designs:

- A collection of end users with items requiring coverage. This contract design is similar to how contracts were designed before these enhancements were introduced. However, instead of a single end user on a contract, you can now assign many end users, each with associated line items.
- A collection of items, each with one or more associated end users. You can specify default items and then indicate which end users own specific instances of these items.

Many contract details that previously defaulted from the contract header now default from the end users. These details include currency, tax environment, coverage limits, additional charge items, purchase order number, blanket coverage, and whether lines can be automatically renewed. End-user totals can be viewed during contract maintenance.

The number of lines on a contract has been expanded, letting you set up contracts with up to 99,999 items for each end user. The number of end users on a contract is limited only by the size of the address code field, which is eight characters.

The support of multiple end users on a contract has been extended throughout contract functions, so that you can specify a range of end users when releasing contract quote lines, renewing contracts, and generating most reports.

Several new features expand options in contract billing. You can choose between billing the contract customer or billing end users. Contract invoices can be generated in summarized or detail format. Billing features that were previously set in Contract Control (11.5.24) can now be managed at the contract and contract-line level. This includes the billing cycle, prorate partial periods, and period-based billing features.

New accrued and deferred accounts along with support utilities assure that contract revenue is posted in accordance with accepted accounting practices.

Key Features

Using the SSM enhancements, you can:

- Indicate whether a contract is for end users with items or items with end users. You can set the default in Contract Control (11.5.24) and maintain the value for each contract.
- Release contract quotes to contracts and auto-renew contracts for a range of end users. You can run many contract reports for a range of end users and contract inquiries for one end user.
- Specify whether the contract customer or individual end users receive invoices generated by Billing Release to Invoice (11.5.18.13). You can set the default in Contract Control and maintain the value for each contract.
- Specify whether the invoices generated by Billing Release to Invoice are in summary or detail format. You can set the default in Contract Control and maintain the value for each contract.
- When invoices are in summary format, view details stored in the database using a new Billing Detail Report (11.5.18.14).
- Control service contract billing cycles at the contract-line and additional-charges levels, while maintaining the billing cycle in the header to set the default.
- Assign a call price list in Contract Maintenance (11.5.13.1).
- Specify whether contract items must be in the installed base in Contract Control.
- Control the display of three frames in Contract Maintenance by setting fields in Contract Control:
 - End User Totals
 - End User Additional Charges
 - Contract Additional Charges
- Indicate a default revenue type (either accrued, deferred, or cash basis) in Contract Control and maintain the revenue type in Contract Maintenance.

- Define Deferred Revenue and Accrued Revenue accounts and cost centers for tracking service contract revenue at the system level, for product lines, and for product-line detail.
- Run a utility program to post amounts to Deferred Revenue and Accrued Revenue accounts on a monthly basis. Review revenue records with a new Deferred/Accrued Revenue Report (11.5.18.22).

New Programs

Several new programs have been added to let you manage new SSM features. Table 2.34 lists new programs created for enhanced SSM functionality.

Table 2.34
New Programs
Introduced by SSM
Enhancements

Menu Number	Description	Program Name
11.5.18.14	Billing Detail Report	fssarp08.p
11.5.18.21	Revenue Recognition	fssdefre.p
11.5.18.22	Deferred/Accrued Revenue Report	fssdefrp.p
11.5.18.23	Revenue Delete/Archive	fsdefarc.p

Modified Programs

Table 2.35 lists programs significantly modified to support enhanced SSM features. In addition to these programs, most other contract-related reports and inquiries now provide for selection by end user.

Table 2.35
Programs Modified
by SSM
Enhancements

Menu Number	Description	Program Name
1.2.1	Product Line Maintenance	ppplmt.p
1.2.2	Product Line Inquiry	pppliq.p
1.2.3	Product Line Report	ppplrp.p
1.2.17	Sales Account Maintenance	ppplsmt.p
1.2.19	Sales Account Report	ppplsrp.p
7.13.4	Invoice Post	soivpst.p
11.1.1.1	Call Maintenance	fscaamt.p
11.5.1.1	Contract Quote Maintenance	fsqomt.p
11.5.1.2	Contract Quote Inquiry	fsqoiq.p
11.5.1.3	Contract Quote Print	fsqorp.p

Menu Number	Description	Program Name
11.5.1.5	Contract Quote Release to Contract	fsqosa01.p
11.5.1.6	Contract Quote Copy from Quote	fsqosa02.p
11.5.1.7	Contract Quote Copy from Contract	fsqosa04.p
11.5.13.1	Contract Maintenance	fssamt.p
11.5.13.2	Contract Inquiry	fssaiq.p
11.5.13.4	Contract Print	fssarp.p
11.5.13.6	Contract Copy to Contract	fsqosa03.p
11.5.13.8	Renew Single Contract	fsqosa05.p
11.5.13.10	Renewal Process/Report	fssaexp.p
11.5.18.13	Billing Release to Invoice	fssais.p
11.5.24	Contract Control	fssapm.p
11.7.1.1	RMA Maintenance	fsmamt.p
36.1	System/Account Control	mgglpm.p

Conversion

A set of conversions is required to use the new service contract features. This conversion is included in the standard conversion suite and documented in the MFG/PRO eB2 *Conversion Guide*.

Enhancements to PRM

The Project Realization Management (PRM) module now includes a more flexible way of ordering items for project activity. In addition, a new report has been added.

Business Need

Creating a material order (MO) is the preferred method for managing the inventory requirements of a project within PRM. This can be done automatically when a project activity order (PAO) is created, or using Material Order Maintenance (10.7.1). Currently, users can associate only one MO line with a particular PAO line. This restriction makes it difficult to plan for future consumption within a project planning period.

MFG/PRO eB2 Solution

▶ See *User Guide*
Volume 10:
Project
Realization
Management.

In Material Order Maintenance, you can now associate multiple MO lines with a PAO line. When the activity is recorded in Project Activity Recording (10.5.13), you can choose the MO you want to use for issuing inventory. A new field in Project Activity Recording lets you easily correct data-entry errors related to MO consumption, if they occur.

In addition, a new report provides a summary-level view of costs and quantities related to a project.

Key Features

Using the PRM enhancements, you can:

- Create multiple material order lines for one PAO line in Material Order Maintenance (10.7.1).
- View these lines for selection in the Material Order Line Selection frame of Project Activity Recording (10.5.13).
- More easily correct data-entry errors in Project Activity Recording.
- View multiple MO lines associated with a PAO line on the PAO WIP Status Report (10.11.15).
- Generate a Project WIP Report (10.11.16) for a summary-level view of the costs and quantities associated with a project.

New Programs

Table 2.36 lists the new PRM program added to MFG/PRO eB2.

Table 2.36
New PRM Program

Menu Number	Description	Program Name
10.11.16	Project WIP Report	pjpjrp20.p

Modified Programs

Table 2.37 lists the programs significantly modified for the PRM enhancements.

Menu Number	Description	Program Name
10.5.13	Project Activity Recording	pjcarmt.p
10.7.1	Material Order Maintenance	fseomt.p
10.11.15	PAO WIP Status Report	pjpjrp10.p

Table 2.37
Modified PRM
Programs

Supply Chain Enhancements

Supply Chain enhancements include the following:

- Significant changes to distribution orders to streamline order creation and allow intersite requests to be generated at a supply site
- Improved MRP and DRP performance with Progress AppServer
- Updates in the area of electronic data interchange (EDI), including the retirement of the standard EDI module and improvements to EDI ECommerce

See page 75.

Enhanced Distribution Orders

Distribution requirements planning (DRP) balances supply and demand in a time-phased manner for items transferred between sites. Typically, these sites exist in several databases connected over a network.

The transfer of demand from the site receiving the items to the site supplying the items is facilitated through the generation of intersite requests. DRP calculates distribution item requirements, generates intersite requests, and manages shipment schedules and transportation.

At the supply site, one or more intersite requests are associated with a single distribution order (DO), which manages shipments to the destination site. DO shipment transfers inventory into a goods-in-transit location. When the destination site receives the goods, they are transferred again into an inventory location at the destination site.

Business Need

Traditionally, DRP in MFG/PRO has been implemented as a pull system. Intersite requests are generated at the demand site only. A DO cannot be initiated and shipped from the supply site without an existing intersite request.

For many business environments, the requirement that an intersite request must exist at the supply site is unnecessarily restrictive. The need to add a line to a DO without a supporting intersite request can occur for a number of reasons, such as the following:

- Urgent demand rises between DRP cycles.
- A few additional items are needed to fill space in a truck or container.
- The supply site wants to ship non-sales items such as samples.
- There is insufficient storage space at the supply site for items that could be stored at the demand site.

To move a DO through its life cycle currently requires a number of steps. High-volume businesses would benefit from a streamlined process that combines functions that are now separate.

In addition, DOs and intersite requests currently cannot be closed and archived unless they are completely fulfilled. If the quantity shipped is slightly less than the original requirement, it can be time-consuming to change the requirements to eliminate the residual items. It should be possible to cancel the back-order quantity during DO shipment, thereby eliminating the associated open quantity on the intersite request. DRP then creates a new intersite request at the demand site to accommodate any remaining net demand.

MFG/PRO eB2 Solution

▶ See *User Guide Volume 5: Supply Chain Management*.

Enhancements to DO processing support a more flexible and streamlined process. These enhancements let users dynamically create intersite requests as part of the DO maintenance function and delete intersite requests when a DO is deleted.

Allocation of inventory, previously only possible with Intersite Demand Confirmation (12.17.1) or Distribution Order Picklist Print (12.17.19), is now included in the DO maintenance function. A new function combines

features of Distribution Order Maintenance (12.17.14) and Distribution Order Shipments (12.17.22), letting users create and ship a DO from one menu option.

Finally, remaining unshipped items can be canceled while shipping a distribution order. Canceling the back-order amount reduces the open quantity on the intersite request to match the quantity shipped.

Key Features

Using enhanced DO processing functions, you can:

- Dynamically create an intersite request from Distribution Order Maintenance.
- Assign a user-specified status code to a DO.
- Choose to delete attached intersite requests when a DO is deleted in Distribution Order Maintenance.
- Detail allocate and pick inventory while creating a DO.
- Create a DO and then immediately ship it as one function.
- Cancel the remaining open quantity on a DO and associated intersite request during the shipment process.
- View differences between amounts shipped at the supply site and amounts received at the demand site.

New Programs

Table 2.38 lists the new programs added to MFG/PRO eB2 to support distribution order enhancements.

Menu Number	Description	Program Name
12.17.17	DO Shipment Reconciliation	dsdorp02.p
12.17.21	Distribution Order Processing	dsdomt02.p

Table 2.38
New DO Programs

Modified Programs

Table 2.39 lists the programs modified in MFG/PRO eB2 to support distribution order enhancements.

Table 2.39
Modified DO
Programs

Menu Number	Description	Program Name
12.17.14	Distribution Order Maintenance	dsdomt.p
12.17.22	Distribution Order Shipments	dsdois.p
12.17.18	Distribution Order Print	dsdorp01.p
12.17.19	Distribution Order Picklist Print	dsdopk01.p

Electronic Data Interchange (EDI)

EDI functions in MFG/PRO eB2 have been updated to provide better support for complex EDI transactions.

Business Need

Businesses that use EDI to communicate with their trading partners must support increasingly sophisticated requirements in the areas of document format and interoperability with other systems.

MFG/PRO eB2 Solution

Changes involving EDI support fall into several categories:

- Retirement of standard EDI module
- Additional EDI ECommerce support for new document types
- XML support
- Ongoing enhancements to EDI ECommerce

Standard EDI Retirement

To place more emphasis on the enhanced, table-driven EDI solution provided by EDI ECommerce, the standard EDI module available in previous releases of MFG/PRO has been retired. EDI ECommerce programs have been moved to the menu location previously occupied by EDI.

New Document Types

In MFG/PRO eB2, EDI ECommerce now supports the additional trading partner document types listed in Table 2.40.

Document Type	Description
Self-bill	Used to export accounts receivable information to suppliers in a self-billing environment
Cycle count	Used to export updated information resulting from periodic inventory cycle counts
Text information	Used to import text comments that can be attached to previously received trading partner documents such as purchase orders
Consignment	Used to export and import consumption information between trading partners using Customer Consignment Inventory and Supplier Consignment Inventory
Status messages	Used to import status codes returned by the EC subsystem related to previously exported documents being tracked in EDI ECommerce

Table 2.40
Added EDI
ECommerce
Trading Partner
Documents

XML Support

In addition to importing and exporting EDI documents in a wide variety of formats defined both by international standards and by specific customer needs, EDI ECommerce can now exchange EDI documents with external applications in extensible markup language (XML) format.

With the addition of an XML gateway, EDI ECommerce communicates MFG/PRO data in XML format to an external system using methods such as HTTP posts and message-oriented middleware (MOM) adapters.

Ongoing Support

Based on customer input and ongoing internal evaluation, QAD’s standing EDI ECommerce team continually improves the performance of the product. Many of the resulting upgrades are done as engineering change orders (ECOs) and introduced into the current version of EDI ECommerce with service packs. MFG/PRO eB2 incorporates all the enhancements made since the release of MFG/PRO eB.

Other changes have been made to enhance functionality in MFG/PRO eB2; for example:

- A program has been added that lets you archive/delete data from the turnaround data repository after it is no longer needed in the system.
- You can now export multiple documents for a single MFG/PRO eB2 address and site.
- QAD-provided transformation definitions are now locked down and cannot be modified without being copied.
- You can optionally have the system create document tracking records for exported documents and update them with status information returned by the EC subsystem.

▶ See the QAD Web site for the latest additions to the Trading Partner Library.

Additionally, the team creates new entries in the EDI ECommerce Trading Partner Library, a catalog of currently available trading partner-specific EDI document sets that have been customized to accommodate EDI partner communications.

Key Features

Using enhanced EDI ECommerce features, you can now:

- Communicate EDI data among external systems in XML format.
- Exchange several additional types of EDI documents between MFG/PRO eB2 and your trading partners.
- Take advantage of improved performance and additional enhancements to EDI ECommerce functions.
- Incorporate new additions to the Trading Partner Library into your EDI environment.

New Programs

Table 2.41 lists the new menu programs added to support new document types, enable exchange of documents in XML format, and enhance the product.

Table 2.41
New EDI
ECommerce Menu
Programs

Menu Number	Description	Program Name
35.4.2	Consignment Usage Export	edomsi.p
35.4.4	Purchase Order Ack. Maintenance	edompoak.p

Menu Number	Description	Program Name
35.4.11	Supplier Self Billing Export	edomvchr.p
35.4.13	Inventory Cycle Count Export	edomcyct.p
35.4.20	Generic Gateway Export	edomgngw.p
35.9.16	Document Tracking Menu...	
35.9.16.1	Document Tracking Maintenance	eddrkmt.p
35.9.16.3	Document Tracking Inquiry	eddrkiq.p
35.9.16.13	Document Tracking Archive/Delete	eddtarch.p
35.13.5	EC Subsystem/MFG Maint	edmxsmt.p
35.13.6	EC Subsystem/MFG Report	edmxsrp.p
35.13.19	HTTP Adapter Maintenance	edhttpmt.p
35.13.20	HTTP Adapter Report	edhttprp.p
35.17.15	Comment Cross-Ref Archive/Delete	edcmarch.p
35.17.16	Turnaround Data Archive/Delete	edtararc.p

Modified Programs

Table 2.42 lists the menu programs modified to support EDI Commerce enhancements.

Menu Number	Description	Program Name
35.1	Document Import	edixsnf.p
35.9.3	Exchange Data Repository Maint	edxrmt.p
35.9.10	MFG/PRO Data Repository Maint	edmfrmt.p
35.13.3	EC Subsystem/Exchange Maint	edsxxmt.p
35.13.7	Trading Partner Maintenance	edtrptmt.p
35.15.6	Exchange Definition Maintenance	edxfmt.p
35.15.13	Implementation Definition Maint	edmimt.p

Table 2.42
Modified EDI
ECommerce
Programs

Obsoleted Programs

Table 2.43 lists programs obsoleted by the retirement of standard EDI.

Table 2.43

Programs
Obsoleted by EDI
Retirement

Menu Number	Description	Program Name
35.1	Trading Partner Parameter Maint	edtpmt.p
35.2	Site Ship-from ID Maintenance	rcsfidmt.p
35.3	Purpose Code Maint	edpcmt.p
35.5	ASN Export	edexasn.p
35.6	ASN Export Audit Report	edexp01.p
35.8	Invoice Export	edexinv.p
35.9	Invoice Export Audit Report	edexp02.p
35.11	PO Ack Export	edexack.p
35.12	PO Ack Export Audit Report	edexp05.p
35.13	Document Import	edimport.p
35.15	Purchase Order Export	edexpo.p
35.16	Purchase Order Export Audit Report	edexp03.p
35.18	Supplier Schedule Export	edexsch.p
35.19	Supplier Schedule Export Audit Report	edexp04.p
35.22	EMT Menu ...	
35.22.1	Manual Ack Resolution	edbtbmar.p
35.22.2	Supplier Change Rejection Maint	edbtbscr.p
35.22.4	Change Management File Report	edcmfrp.p
35.22.13	Transmission Manager	edtrmg.p
35.22.15	EDI PO Change Ack Export	edexackc.p
35.22.16	EDI PO Change Export	edexpoc.p
35.22.25.1	Delete Stranded Address List Detail	uxlsdel.p
35.24	EDI Control File Maintenance	edmgmt.p

Menu Changes

Table 2.44 lists the current location of EDI ECommerce programs.

Menu Number	Description	Program Name
35	EDI ECommerce Menu ...	
35.1	Document Import	edixsnf.p
35.4	Document Export Menu ...	
35.4.1	Shipment ASN Export	edomasn.p
35.4.2	Consignment Usage Export	edomsi.p
35.4.3	Invoice Export	edominv.p
35.4.4	Purchase Order Ack. Maintenance	edompoak.p
35.4.5	Purchase Order Acknowledgment	edomack.p
35.4.8	Supplier Shipping Schedule	edomsch.p
35.4.9	Purchase Order Export	edompo.p
35.4.11	Supplier Self Billing Export	edomvchr.p
35.4.13	Inventory Cycle Count Export	edomcyct.p
35.4.20	Generic Gateway Export	edomgngw.p
35.4.23	Export Reprocessing	edoxrpr.p
35.7	Session Report	edpsrp.p
35.9	Import/Export Session Menu ...	
35.9.1	Exchange Doc Status Inquiry	edxfsiq.p
35.9.2	Exchange Doc Status Report	edxfsrp.p
35.9.3	Exchange Data Repository Maintenance	edxrmt.p
35.9.4	Exchange Data Repository Inquiry	edxriq.p
35.9.5	Exchange Data Repository Report	edxrrp.p
35.9.8	MFG/PRO Doc Status Inquiry	edmfisiq.p
35.9.9	MFG/PRO Doc Status Report	edmfisrp.p
35.9.10	MFG/PRO Data Repository Maintenance	edmfrrmt.p
35.9.11	MFG/PRO Data Repository Inquiry	edmfriq.p
35.9.12	MFG/PRO Data Repository Report	edmfrrp.p
35.9.13	Exchange-MFG/PRO Xref Browse	edbr021.p
35.9.14	Exchange-MFG/PRO Xref Report	edrrxrp.p
35.9.17	Turnaround Data Maintenance	edtarmt.p

Table 2.44 — *EDI ECommerce Programs* — (Page 1 of 4)

Menu Number	Description	Program Name
35.9.18	Turnaround Data Browse	edbr028.p
35.9.19	Turnaround Data Report	edtarrp.p
35.9.21	Import Reprocessing	edixrpr.p
35.9.22	Export Reprocessing	edoxrpr.p
35.13	ECommerce Setup Menu ...	
35.13.1	EC Subsystem Definition Maintenance	edssmt.p
35.13.2	EC Subsystem Report	edssrp.p
35.13.3	EC Subsystem/Exchange Maintenance	edsxxmt.p
35.13.4	EC Subsystem/Exchange Report	edsxxrp.p
35.13.5	EC Subsystem/MFG Maint	edmxxmt.p
35.13.6	EC Subsystem/MFG Report	edmxxrp.p
35.13.7	Trading Partner Maintenance	edtrptmt.p
35.13.8	Trading Partner Browse	edbr024.p
35.13.9	Trading Partner Report	edtrp.p
35.13.10	Trading Partner Parameter Maintenance	edtpmmmt.p
35.13.11	Trading Partner Parameter Inq	edtpmiq.p
35.13.12	Trading Partner Parameter Report	edtppr.p
35.13.13	Transmission Group Maintenance	edtgmt.p
35.13.14	Transmission Group Browse	edbr027.p
35.13.15	Transmission Group Report	edgrp.p
35.13.16	Data Cross-Reference Maintenance	edxrefmt.p
35.13.17	Data Cross-Reference Browse	edbr022.p
35.13.18	Data Cross-Reference Report	edxrefrp.p
35.13.19	HTTP Adapter Maintenance	edhttpmt.p
35.13.20	HTTP Adapter Report	edhttprp.p
35.13.21	Data Validation Maintenance	edvalmt.p
35.13.22	Data Validation Browse	edbr023.p
35.13.23	Data Validation Report	edvalrp.p
35.13.24	ECommerce Control	edcpm.p
35.15	Transformation Setup Menu ...	
35.15.1	Exchange Definition Copy	edxfcp.p
35.15.2	MFG/PRO Definition Copy	edmfcp.p

Table 2.44 — EDI ECommerce Programs — (Page 2 of 4)

Menu Number	Description	Program Name
35.15.3	Implementation Definition Copy	edmicp.p
35.15.6	Exchange Definition Maintenance	edxfmt.p
35.15.7	Exchange Definition Inquiry	edxfiq.p
35.15.8	Exchange Definition Report	edxfrrp.p
35.15.10	MFG/PRO Definition Maintenance	edmfmt.p
35.15.11	MFG/PRO Definition Inquiry	edmfirp.p
35.15.12	MFG/PRO Definition Report	edmfrrp.p
35.15.13	Implementation Definition Maintenance	edmimt.p
35.15.14	Implementation Definition Inq	edmiiq.p
35.15.15	Implementation Definition Report	edmirp.p
35.15.17	Transformation Definition Maintenance	edtrmt.p
35.15.18	Transformation Definition Inq	edtrirp.p
35.15.19	Transformation Definition Report	edtrrrp.p
35.15.21	ECommerce Function Maintenance	edtrfmt.p
35.15.22	ECommerce Function Inquiry	edtrfiq.p
35.15.23	ECommerce Function Report	edtrfrp.p
35.17	ECommerce Utilities Menu ...	
35.17.1	Transformation Definition Copy	edtrcp.p
35.17.2	ECommerce Function Copy	edtrfcp.p
35.17.3	Transformation ReNumber Utility	edtrrenm.p
35.17.5	Export/Import Controller	edioctrl.p
35.17.7	Trading Partner Library Load	edtpload.p
35.17.8	Trading Partner Library Unload	edtpdstr.p
35.17.13	Inbound Delete/Archive	edxfarch.p
35.17.14	Outbound Delete/Archive	edmfarch.p
35.17.15	Comment Cross-Ref Archive/Delete	edcmarch.p
35.17.16	Turnaround Data Archive/Delete	edtararc.p
35.17.24	ECommerce Control	edcpm.p
35.22	EMT Menu ...	
35.22.1	Manual Ack Resolution	edbtbmar.p
35.22.2	Supplier Change Rejection Maintenance	edbtbscr.p
35.22.4	Change Management Report	edcmfrp.p

Table 2.44 — EDI ECommerce Programs — (Page 3 of 4)

Menu Number	Description	Program Name
35.22.13	ECommerce EMT Manager	edectrmg.p
35.22.15	PO Change Ack Export	edomackc.p
35.22.16	PO Change Export	edompoc.p

Table 2.44 — *EDI ECommerce Programs* — (Page 4 of 4)

Conversion

A set of conversions is required to use new EDI ECommerce features. This conversion is included in the standard conversion suite and documented in the MFG/PRO eB2 *Conversion Guide*.

PRO/PLUS Enhancements

MFG/PRO eB2 includes the following new PRO/PLUS modules:

- Container and Line Charges
- Shipment Performance Reporting

In addition, the Global Requisition System (GRS) is no longer included in the PRO/PLUS package.

Container and Line Charges

Business Need

The ability to track and invoice shipping containers associated with sales order lines, as well as tracking and invoicing other miscellaneous charges, are essential elements in an effective supply chain. Companies need a simple, fast, and effective mechanism to capture, review, and invoice shipping expenditures and miscellaneous information at the order-line level.

MFG/PRO eB2 Solution

The Container and Line Charges (CLC) module enables suppliers to track and invoice customers for:

- Shipping containers, such as pallets, crates, or bins
- Extra line charges, such as shipping, painting, and detailing

Line charges and container charges are added at the order line-item level.

This module also supports the setup of flexible data entry points during the shipping process for recording and tracking shipping codes or related shipping information.

Container Charges

Container charges can be assessed for any kind of container used during shipment, such as expendable containers or any container not already accounted for on the sales order line. You can predefine container charge amounts for each container item or for a specific container being sent to a specific customer. Container charges can also be calculated per unit, at a flat rate, or at a user-defined rate using customized external calculation routines.

You can assess container charges in the following maintenance functions:

- Sales Order Maintenance (7.1.1)
- Scheduled Order Maintenance (7.3.13)
- Pending Invoice Maintenance (7.13.1)

The system references container information in the following maintenance and workbench functions:

- Container Workbench (7.7.1)
- SO Container Maintenance (7.7.5)
- Sales Order Shipper Maintenance (7.9.8)
- Pre-Shipper/Shipper Workbench (7.9.2)

▶ See *User Guide
Volume 11:
PRO/PLUS.*

Line Charges

Line charges are any general or miscellaneous charges assessed on a sales order line. When you apply a line charge, you must specify a trailer code, and you may specify a corresponding line charge type code. Line charge amounts can be specified at the line-item level or calculated by an external user-created calculation or validation program associated with the charge type code.

Line charges display on the invoice with the trailer code associated at the time the charge was assessed. Trailer codes let you track line charges for GL purposes and reporting.

You can always assess additional charges on an order line item in the following maintenance programs:

- Sales Order Maintenance (7.1.1)
- Scheduled Order Maintenance (7.3.13)
- Pending Invoice Maintenance (7.13.1)

You can also use Order Line Charge Maintenance (7.22.13) at any time to update line charges directly.

Depending on control program settings, you may also be able to add and modify line charges while maintaining containers and shippers in:

- Container Workbench (7.7.1)
- SO Container Maintenance (7.7.5)
- Pre-Shipper/Shipper Workbench (7.9.2)
- Sales Order Shipper Maintenance (7.9.8)

User Fields

User field functions let suppliers track various shipping codes such as Authorized Excess Transportation Codes (AETC), airport codes, or airfreight codes on scheduled orders, shippers, and advance ship notices (ASN). The system can be set up to prompt users for specific codes at any point in various shipping programs, or codes can be predefined for sales orders for specific ship-to addresses and items.

Key Features

Using container and line charge functions, you can:

- Create unique container items based on items currently defined in the system.
- Create price lists for container items or ship-to and container-item combinations.
- Create customized calculation methods to find extended prices for container or line charges.
- Set specific control options based on ship-from and ship-to combinations.
- Add miscellaneous line charges to sales orders, pending invoices, and scheduled orders. Optionally add them in container and shipper programs.
- Add container-item charges to sales orders, pending invoices, and scheduled orders. Reference sales order line items and associated container charges in container and shipper programs.
- Track shipping codes such as AETC on scheduled orders, shippers, and ASNs.
- Create customized validation programs to validate shipping codes.
- Optionally include container-charge and line-charge details on ASNs.
- Specify the level of detail to print on invoices for container charges and line charges.
- Optionally include container and line charges in self billing.

New Programs

Table 2.45 lists the new programs on the Container and Line Charges (7.22) menu.

Menu Number	Description	Program Name
7.22	PRO/PLUS Container & Line Charge ...	
7.22.1	Charge Type Maintenance	cctmt.p
7.22.2	Charge Type Inquiry	cctiq.p
7.22.5	Ship-To/Container Charge Maintenance	ccscmt.p

Table 2.45
Container and Line
Charges Programs

Menu Number	Description	Program Name
7.22.6	Ship-To/Container Charge Inquiry	ccsciq.p
7.22.7	Ship-To/Container Charge Report	ccsepr.p
7.22.10	Container Item Maintenance	ccpmt.p
7.22.11	Container Inquiry	ccpiq.p
7.22.12	Container Data Report	ccprp.p
7.22.13	Order Line Charge Maintenance	rcslcmt.p
7.22.15	Ship-To Control Maintenance	cclspm.p
7.22.16	Ship-To Control Inquiry	cclsiq.p
7.22.17	Ship-To Control Report	cclspr.p
7.22.19	Container Usage Report	ccurp.p
7.22.24	Container/Line Charge Control	cclpm.p

Modified Programs

When you activate the Container and Line Charges module, features are added to various programs, including CLC data collection frames and fields. The added features help capture, maintain, invoice, and report CLC data. When you deactivate this module, the modified programs again operate as in standard MFG/PRO eB2.

Table 2.46 lists programs modified to support the CLC module.

Table 2.46
Programs Modified
for CLC Module

Menu Number	Description	Program Name
7.1.1	Sales Order Maintenance	sosomt.p
7.1.3	Sales Order Print	sosorp05.p
7.3.13	Scheduled Order Maintenance	rcsomt.p
7.7.1	Container Workbench	rcctwb.p
7.7.5	SO Container Maintenance	rcctmt.p
7.9.1	Picklist/Pre-Shipper–Automatic	sososl.p
7.9.2	Pre-Shipper/Shipper Workbench	rcshwb.p
7.9.4	Pre-Shipper/Shipper Print	rcrp13.p
7.9.5	Pre-Shipper/Shipper Confirm	rcsois.p
7.9.8	Sales Order Shipper Maintenance	rcshmt.p
7.9.9	Sales Order Shipper Print	rcrp11.p
7.9.15	Sales Order Shipments	sosois.p

Menu Number	Description	Program Name
7.9.20	Undo Shipper Number Assignment	rcslrb.p
7.9.21	Shipper Unconfirmed	rcunis.p
7.9.22	Shipper Gateway	rcshgw.p
7.9.23	Shipper Delete/Archive	rcscdel.p
7.13.1	Pending Invoice Maintenance	soivmt.p
7.13.2	Pending Invoice Register	soivrp.p
7.13.3	Invoice Print	sosorp10.p
7.13.4	Invoice Post	soivpst.p
7.13.8	Invoice History Report	soivrp09.p
7.13.23	Invoice History Delete/Archive	soivup.p
35.4.1	Shipment ASN Export	edomasn.p

Table 2.47 lists MFG/PRO eB2 reports modified to include CLC data.

Menu Number	Description	Program Name
7.3.14	Scheduled Order Inquiry	rcsoiq.p
7.3.15	Scheduled Order Report	rcsorp.p
7.7.2	Container Inquiry	rciq03d.p
7.9.3	Pre-Shipper/Shipper Inquiry	rciq03.p
7.13.8	Invoice History Report	soivrp09.p
7.13.12	Closed Invoice Reprint	soivrp10.p
7.15.1	Sales Order by Order Report	sosorp.p
7.15.2	Sales Order by Customer Report	sosorp01.p
7.15.7	Sales Order Pricing Report	sopirp01.p
7.15.9	Unconfirmed Sales Order Report	sosorp16.p

Table 2.47
Reports Modified
for CLC Module

Shipment Performance Reporting

Business Need

The ability to meet promised and required ship dates is a crucial element in maintaining successful business relationships. Companies need detailed shipment information to improve their current processes and remain competitive.

In some industries, companies are required to comply with performance criteria in order to continue in a business relationship. Well-defined metrics are needed to meet regulatory and quality standards.

MFG/PRO eB2 Solution

▶ See *User Guide*
Volume 11:
PRO/PLUS.

With the Shipment Performance module, you can monitor shipping effectiveness by measuring how a shipping department meets customer-requested ship dates and quantities. You can choose which date to use for measuring performance based on your business practices: the line-item performance date, due date, or required date.

You can collect shipment performance data for a wide variety of shipment types including discrete and scheduled sales orders, return material authorizations (RMAs), distribution orders (DOs), and material orders (MOs). Performance is measured by comparing planned ship dates and quantities to actual ship dates and quantities. Using these comparisons, the system automatically assigns two types of predefined status codes to shipments:

- Status codes that measure timeliness of shipments are called *time-based status codes*. These codes measure timeliness based on hours or days a shipment is early or late.
- Status codes that measure the completeness of shipments are called *quantity-based status codes*. These codes measure the shipment quantity or percentage either over or under the required shipment quantity.

You can optionally add reason codes to each performance transaction record. You can enter further information on status code and reason code assignment and related issues as comments. For additional tracking, you can specify categories for all shipment line items.

Shipment performance reports and the information they provide can improve shipping processes by letting you monitor shipping efficiency at one or more sites. Multiple reports are available, including a performance report for reviewing the timeliness and completeness of shipments.

Also available are item, customer, and reason code analysis reports for reviewing the timeliness and completeness of shipments based on items shipped, customers shipped to, and reason codes assigned. You can optionally export shipment performance data for use with external reporting systems.

Key Features

Using shipment performance functions, you can:

- Monitor performance for multiple shipping functions including:
 - Sales order shipments
 - Scheduled sales order shipments
 - RMA shipments
 - DO shipments
 - MO shipments
- Measure shipment performance based on required date, performance date, due date, and shipment quantity.
- Create status codes that indicate shipment timeliness and completeness for use system wide or for specific combinations of customer, ship-from, ship-to or receiving site, and item number.
- View assigned shipment performance statuses or change assigned statuses.
- Enable and disable shipment performance recording:
 - At the system level
 - At the customer/ship-to level
 - At the item level
 - At the ship-from site level
 - For scheduled order shipments
 - For DO shipments
 - For discrete sales order shipments

See “Change Tracking” on page 112.

- For RMA order shipments
- For MO shipments
- Create and assign reason codes to describe why shipments were assigned status codes. You can manually assign reason codes:
 - Before shipment in Pre-Shipper/Shipper Workbench (7.9.2)
 - After completing a shipment using Shipment Reason Code Entry (7.9.17.9) or Shipment Performance Data Maintenance (7.9.17.13)
- When Keep Booking History is Yes in Sales Order Control (7.1.24), specify reason codes and comments during maintenance sessions for changes to marked sales order detail fields. View this data on the Booking Transaction Report (7.15.14).
- Measure shipment performance for customer schedules based on the current active or prior schedule release. This can be set system wide or at the customer, ship-from, ship-to or receiving site, and item level.
- Export historical performance data for manipulation with external reporting tools.
- Create shipment performance reports that:
 - Find shipments that have no assigned reason codes.
 - Produce detailed performance analysis reports.
 - Display detailed line-item category information.
 - Display performance impact by reason code, item, customer, and other types of information ranked from most to least significant.
 - Display shipment lines with subtotals by customer, site, item, unit of measure, and currency.

New Standard Programs

This module adds two standard reports available to all MFG/PRO eB2 users:

- Backlog/Missed Shipment Report (7.9.18)
- Fill Rate Report (7.9.19)

New Shipment Performance Programs

Table 2.48 lists new programs included in the Shipment Performance module.

Menu Number	Description	Program Name
7.9.17	PRO/PLUS Shipment Performance...	
7.9.17.1	Performance Controls Maintenance	sospcmt.p
7.9.17.3	Time-Based Status Code Maintenance	sostmt.p
7.9.17.4	Time-Based Status Code Browse	sobr028.p
7.9.17.6	Quantity-Based Status Code Maintenance	sostqmt.p
7.9.17.7	Quantity-Based Status Code Browse	sobr029.p
7.9.17.9	Shipment Reason Code Entry	sorsnent.p
7.9.17.10	Missing Reason Code Report	soshprp6.p
7.9.17.13	Shipment Performance Data Maintenance	soshpmt.p
7.9.17.15	Shipment Performance Report	soshprp.p
7.9.17.17	Reason Code Analysis Report	soshprp1.p
7.9.17.18	Item Analysis Report	soshprp2.p
7.9.17.19	Customer Analysis Report	soshprp3.p
7.9.17.22	Performance Data Extract	soshpex.p
7.9.17.23	Performance Data Delete/Archive	soshpup.p
7.9.17.24	Shipment Performance Control	soshppm.p

Table 2.48
New Shipment
Performance
Programs

Modified Programs

When you activate this module, new features are added to some existing programs. The added features help capture, maintain, and report performance data. When you deactivate this module, the modified programs again operate as in standard MFG/PRO eB2.

Table 2.49 lists programs modified for use with the Shipment Performance module.

Menu Number	Description	Program Name
7.1.1	Sales Order Maintenance	sosomt.p
7.3.13	Scheduled Order Maintenance	rcsomt.p
7.9.2	Pre-Shipper/Shipper Workbench	rcshwb.p

Table 2.49
Modified Programs
for Shipment
Performance

Menu Number	Description	Program Name
7.9.5	Pre-Shipper/Shipper Confirm	rcsois.p
7.9.15	Sales Order Shipments	sosois.p
7.9.21	Shipper Unconfirm	rcunis.p
7.13.1	Pending Invoice Maintenance	soivmt.p
10.7.1, 11.11.1	Material Order Maintenance	fseomt.p
10.7.6, 11.11.6	Material Order Shipments	fseops.p
11.7.1.1	RMA Maintenance	fsrmamt.p
11.7.1.16	RMA Shipments	fsrmash.p
12.17.13	Distribution Order Workbench	dsdomt01.p
12.17.14	Distribution Order Maintenance	dsdomt.p
12.17.22	Distribution Order Shipments	dsdois.p

System Enhancements

System enhancements improve the way MFG/PRO captures, processes, and presents information. The following system enhancements were made in MFG/PRO eB2:

- Support for new system-access rules, enhanced user profile records, and resource rules that improve security control
- Support for new license policies, access activation to newly registered applications, and improved license reporting
- Support for defining time zone data and specifying the server time zone
- Ability to track and report changes made to sales order detail fields

User and Security Changes

MFG/PRO eB2 is enhanced with security solutions that provide enterprise-quality protection. The security solution includes new system-access rules, enhanced user profile records, and resource rules that improve security control.

Business Need

With the advent of telemarketing and virtual offices, user identification within a system must be robust enough to support and maintain all user types, regardless of their location or the MFG/PRO application they use. Such identity management protects online operations from misuse and attacks across the distributed system environment.

Administrators require an efficient, customizable, yet easy-to-use solution for securely managing distributed users and the software resources they use. This includes the ability to plan and implement user access rights, then closely monitor system use.

MFG/PRO eB2 Solution

MFG/PRO eB2 has been enhanced to provide improved access management and a greater level of detail in user profiles.

System Login and Security

The Security Option field has been removed from Security Control (36.3.24). MFG/PRO now uses a single methodology to validate user access at sign-on. All users must specify a valid user ID and password defined in User Maintenance (36.3.18). The system is shipped with a default user ID for use during installation.

All programs that previously checked for a list of valid passwords now check for user ID or group only.

Menu Password Maintenance (36.3.1) has been renamed Menu Security Maintenance. System administrators can use this program to specify a list of user IDs or groups that can access a menu item.

Menu Password Change is now Menu Security Change (36.3.2). Menu Security Change lets system administrators globally replace one user ID or one group that is assigned to specific menus with a different user ID or group. They can also use it to change a user ID to a group.

User Maintenance

More identifying information can now be associated with each user in User Maintenance with the following new fields:

▶ See “Country Code Menu” on page 106.

- **Country Code.** Each user is associated with a country code created in Country Code Maintenance (2.14.1).
- **Variant.** This field is optional and could be used to specify regional variations within a country.
- **User Type.** MFG/PRO is shipped with a default set of user types: employee, customer, QAD, and API. No special security is associated with the user types.

▶ See “Multiple Time Zones Setup” on page 110.

- **Time Zone.** Each user is associated with a time zone. Time zones must be predefined in Multiple Time Zones Maintenance (36.16.22.1).
- **Access Location.** Each user is associated with a code that identifies the user's major business facility or major business location. MFG/PRO ships with a Primary location code that is used by default for new user records. For applications with the location license type, the system uses access location for location count purposes.

A new frame displays in User Maintenance that lists registered applications the user can access.

Country Code Menu

To accommodate the more general use of country codes, the Country Code Menu (2.14) now displays at the top level in the Addresses/Taxes module.

You can now use the Alternate Code field in Country Code Maintenance (2.14.1) to define a valid International Organization for Standardization (ISO) country code. The system uses the ISO country code to set session attributes for each user, such as date and number format.

User Access by Application Inquiry

User Access by Application Inquiry (36.3.22) lets you display a list of active users by user ID and the date of activation for registered applications.

Key Features

- Specify more comprehensive information when identifying users.
- Limit user access to applications to only those they need to perform their jobs.
- Control and monitor system and application access.
- Use new reporting options to view the activity of each user on each application.

New Program

Table 2.50 lists the new program added to MFG/PRO eB2 to support user and security enhancements.

Menu Number	Description	Program Name
36.3.22	User Access by Application Inquiry	lvusriq.p

Table 2.50
New User and
Security Program

Modified Programs

Table 2.51 lists the menu-level programs that were modified to support user and security enhancements.

Menu Number	Description	Program Name
2.14.1	Country Code Maintenance	adctrymt.p
36.3.1	Menu Security Maintenance	mgpwmt.p
36.3.2	Menu Security Change	mgpwcg.p
36.3.18	User Maintenance	mgurmt.p
36.3.19	User Inquiry	mguriq.p
36.3.20	User Password Maintenance	mgurmt.p
36.3.24	Security Control	mgurpmmt.p

Table 2.51
Programs Modified
by User and
Security
Enhancements

Table 2.52 shows the structure of the new Country Code Menu and indicates the previous and current menu positions.

Table 2.52
Country Code
Menu Structure

Previous Menu	Current Menu	Description
2.13.3.1 and 2.22.1.10	2.14.1	Country Code Maintenance
2.13.3.2 and 2.22.1.11	2.14.2	Country Code Browse
2.13.3.3	2.14.3	Country Code Report

Conversion

A conversion is required to use the new User Maintenance features. The conversion sets the user type and defines Primary as each user’s default location. It is included in the standard conversion suite and documented in the MFG/PRO eB2 *Conversion Guide*.

Improved Licensing Capability

A new License Registration Menu (36.16.10) has been added to the Database Management Menu (36.16). The License Registration Menu provides enhanced license registration and license reporting capabilities.

Business Need

License reporting for both customers and QAD auditors must be capable of accurately monitoring and displaying active users, applications, and license data. Having access to this information can help customers comply with their license agreements and aid QAD auditors when assessing license compliance.

MFG/PRO eB2 Solution

License Registration (36.16.10.1) has been enhanced to display currently registered applications. You can still register new applications or upgrade licenses; however, you can now activate or deactivate a user’s access to an application when the application is registered. A wildcard option and other selection options let you easily activate large groups of users.

The system now stores and reports detailed information on applications, users authorized for each application, current licenses, and license violations. The new reports provide more information for system administrators and QAD auditors.

New counting routines let the system apply different counting mechanisms to support changes in license policies. User counts appear on some of the new reports.

Each company can choose how to manage license violations when they occur through a new setting in Security Control (36.3.24). The new setting determines whether warning or error messages display when license violations occur.

Key Features

- Activate user access when an application is registered.
- Store and display detailed information about licensed applications and the users authorized for them.
- Store and display detailed or summary license violation information.
- Optionally enforce license agreements.

New Programs

Table 2.53 lists the new programs added to MFG/PRO eB2 to support license registration enhancements.

Menu Number	Description	Program Name
36.16.10	License Registration Menu	
36. 16.10.3	Licensed Application Report	lvlarrr.p
36.16.10.8	Application Usage Profile Report	lvauprp.p
36.16.10.13	Detailed License Violation Report	lvlvdrp.p
36.16.10.14	Summary License Violation Report	lvlvsrp.p

Table 2.53
New License
Registration
Programs

Modified Programs

Table 2.54 lists the menu-level programs that were modified to support user and security enhancements.

Table 2.54
Programs Modified
by License
Registration

Menu Number	Description	Program Name
36.16.10.1	License Registration	lvreg.p
36.16.12	User Monitor Inquiry	lvmon.p

Multiple Time Zones Setup

A Multiple Time Zones Setup Menu (36.16.22) has been added on the Database Management Menu (36.16) in the Manager Functions module.

Business Need

Large-scale organizations with multiple sites that are dispersed geographically need to consider the time zones of their users for many time-related activities. Currently the definition of time zones is only supported in the optional Service/Support Management (SSM) module.

MFG/PRO eB2 Solution

Time zone setup is now available to all MFG/PRO users from a new Multiple Time Zones Setup Menu (36.16.22), added to the Database Management Menu. You can create and maintain time zones and view time zone data or reports. You can also load default data during initial setup.

User Maintenance (36.3.18) now lets you assign a time zone to each user. The time zone is recorded and appears in QAD audit reports.

You can now specify a default system time zone in System/Account Control (36.1). Modifications were made to SSM's Multiple Time Zones Startup Utility (11.21.22.24) and Server Time Zone Change Utility (11.21.22.22) so that they set the server time zone in both System/Account Control and Service Management Control (11.24).

Key Features

Using multiple time zone features, you can:

- Load sample time zone data into your database.
- Define and modify multiple time zones.
- Automatically track daylight savings time adjustments.
- Specify the system’s default time zone.
- Associate a predefined time zone with each user.
- Generate multiple time zone reports.

New Programs

Table 2.55 lists the new programs that display on the Multiple Time Zones Setup Menu.

Menu Number	Description	Program Name
36.16.22	Multiple Time Zones Setup Menu ...	
36.16.22.1	Multiple Time Zones Maintenance	fstzomt.p
36.16.22.2	Multiple Time Zones Inquiry	fstzoiq.p
36.16.22.3	Multiple Time Zones Report	fstzorp.p
36.16.22.13	Multiple Time Zones Load Utility	uttzld.p

Table 2.55
New Multiple Time
Zones Setup Menu

Note Except for the load utility, these programs continue to exist in the SSM module.

Modified Programs

Table 2.56 lists the menu-level programs that were modified to support setting up multiple time zones.

Menu Number	Description	Program Name
11.21.22.22	Server Time Zone Change Utility	utsrvrtz.p
11.21.22.24	Multiple Time Zones Startup Utility	utmtzon.p
36.1	System/Account Control	mgglpm.p
36.3.18	User Maintenance	mgurmt.p

Table 2.56
Programs Modified
by Multiple Time
Zones Setup

Change Tracking

The system now includes a new sales order line change-tracking mechanism. Two change tracking items were added to the System Constants (36.2) menu.

Business Need

To remain successful, businesses must implement a means to analyze, review, and document their performance. Being able to track and report changes in sales order line detail can improve the sales order process by letting businesses monitor sales order efficiency. By tracking changes in the sales order line and assigning reason codes to every change, businesses can review the timeliness and completeness of orders, including cancellations, changes in amounts ordered, due date, performance date, and the reasons for the change.

MFG/PRO eB2 Solution

You can now assign and capture a reason code and comments when a change to a discrete sales order line occurs during sales order maintenance. A new reason type applies to changes made to sales order detail.

Two new menu items were added to the System Constants Menu (36.2) in Manager Functions. You use Change Tracking Maintenance (36.2.22) to specify which sales order line field to track. You can view the details about the fields you track for changes using Change Tracking Browse (36.2.23).

Key Features

Using the features of change tracking, you can:

- Specify which sales order detail fields to track. You can track changes to any field in the sales order detail record, sod_det. You can also track the deletion of a sales order detail line.
- Delete any record for fields that no longer require tracking.
- Let users enter a reason code and comments when the value of a tracked field changes in a sales order detail line.

- Print the reason for change and comments on a Booking Transaction Report (7.15.14).
- Activate or deactivate the change tracking feature at any time.

New Programs

Table 2.57 lists the new programs added to MFG/PRO eB2 to support change tracking.

Menu Number	Description	Program Name
36.2.22	Change Tracking Maintenance	mgtblcmt.p
36.2.23	Change Tracking Browse	mgbr223.p

Table 2.57
New Change
Tracking Programs

Modified Programs

Table 2.58 lists the menu-level programs that were modified to support change tracking.

Menu Number	Description	Program Name
7.1.1	Sales Order Maintenance	sosomt.p
7.1.24	Sales Order Control	sosopm.p
7.15.14	Booking Transaction Report	sosorp03.p
36.2.17	Reason Codes Maintenance	mgrnmt.p
36.2.19	Reason Codes Report	mgrmrp.p

Table 2.58
Programs Modified
by Change
Tracking

External Interface Enhancements

External interfaces enable MFG/PRO eB2 to interact with other applications. The following new and enhanced interfaces are included with MFG/PRO eB2:

- New Demand Planner API
- New Data Synchronization functions
- Enhanced Q/LinQ features
- New Advanced Planning and Optimization ATP functions

Demand Planner API

MFG/PRO eB2 now supports an application program interface (API) with Demand Planner, the advanced demand-management and forecasting product provided by Demantra Ltd.

Note The Demand Planner product is available directly from Demantra Ltd. The implementation of the MFG/PRO interface must be performed with the assistance of QAD Global Services. Contact your QAD account representative for information.

Business Need

Companies are faced with ever-increasing challenges to respond to rapid changes in the marketplace. A critical element of this responsiveness is having the right information and understanding of the demand for their product in their markets. The ability to manage and accurately forecast demand is a critical process that differentiates industry leaders, providing the agility and direction to drive their markets.

MFG/PRO eB2 Solution

To provide MFG/PRO eB2 users with the advanced demand-management tools they need to produce accurate, responsive forecasts, the Demand Planner API offers a way to exchange data with Demantra's Demand Planner, a comprehensive set of advanced demand analysis and forecasting applications.

Key Features

Using the features added by the Demand Planner API, you can:

- Define items and sites in MFG/PRO eB2 that have forecasting done by Demand Planner.
- Export MFG/PRO eB2 master-table and sales-history data to Demand Planner, where it serves as input to the forecasting process.
- Export multiple currency exchange rates from MFG/PRO eB2, so that Demand Planner users can view historical sales data and forecasts in alternate currencies.
- Import Demand Planner item-site forecasts into MFG/PRO eB2.

New Programs

Table 2.59 lists the new programs added to MFG/PRO eB2 to support the Demand Planner API.

Menu Number	Description	Program Name
36.5.9	Demand Planning Menu ...	
36.5.9.1	Demand Planning Export	gidpexp.p
36.5.9.2	Demand Planning Import	gidpimp.p
36.5.9.13	DP Site/Item Definition Maint	gidpsimt.p
36.5.9.14	DP Site/Item Inquiry	gigpiq.p
36.5.9.15	DP Site/Item Report	gidprpt.p
36.5.9.16	DP Site/Item Definition Update	gidpsiup.p
36.5.9.24	Demand Planning Control	gidppm.p

Table 2.59
New Demand
Planner API
Programs

Data Synchronization

MFG/PRO eB2 provides a new set of functions you can use with Q/LinQ in a distributed database environment. These features ensure that critical base data can be synchronized across multiple MFG/PRO databases.

Business Need

In a global economy, many manufacturing companies want to take advantage of the benefits that result from distributed operations, such as tax savings, labor cost, material availability, transportation, climate, and proximity to markets.

Distributed operations can directly address local and regional requirements and reduce reliance on a central system. However, maintaining consistent data across a network of distributed databases can itself be a costly and difficult task. Customers with distributed operations need an automated way to ensure that this data is synchronized throughout their systems.

MFG/PRO eB2 Solution

▶ See *External Interface Guide: Data Synchronization*.

Data Synchronization (DataSync) ensures that static data—such as sites, item numbers, customer addresses, and GL accounts—exactly corresponds among multiple, distributed MFG/PRO databases.

DataSync is built using Q/LinQ's underlying API architecture and its associated connectivity standards of OAGIS BODs and XML protocols.

DataSync captures data changes and passes them to Q/LinQ. Q/LinQ publishes the data to an export document and exports that document to Q/LinQ in a destination MFG/PRO database. Q/LinQ in the destination database receives the document, maps the data, and processes the data by updating corresponding tables in the destination database.

The features of DataSync:

- Promote corporate unity and adherence to standards, while at the same time allowing local independent operations.
- Work across different time zones and currencies.
- Support consistent and accurate information retrieval throughout the supply chain.

Key Features

Using the features of DataSync, you can:

- Define one-to-one, one-to-many, and many-to-many relationships among source and destination databases.
- Specify for each database the master tables and the fields within the tables to be synchronized.
- Choose the method of communicating between databases: file transfer, the Q/LinQ stream API, or the Q/LinQ messaging APIs.
- Process batch delete transactions through the CIM interface.

New Programs

Table 2.60 lists programs added to support DataSync.

Menu Number	Description	Program Name
36.8.8	Destination List Maintenance	qqdalmt.p
36.8.22	Data Synchronization Setup Menu ...	
36.8.22.1	Synchronization Profile Maintenance	qqsypmt.p
36.8.22.2	Synchronization Profile Inquiry	qqsypiq.p
36.8.22.3	Sync Table–Field Maintenance	qqsytfmt.p
36.8.22.4	Sync Table–Field Browse	qqbr030.p
36.8.22.8	Synchronization Mass Export	qqsymsex.p

Table 2.60
New Data
Synchronization
Programs

Tables to Synchronize

Table 2.61 lists the database tables that can be updated using DataSync. Also listed are the MFG/PRO programs that are typically used to update the tables interactively.

Table	Table Description	Menu Label	Program
ac_mstr	Account Master	Account Code Maintenance	glacmt.p
an_mstr	Analysis Code Master	Analysis Code Maintenance	ppacmt.p
anl_det	Analysis Code Link Detail	Analysis Code Link Maint	ppacln.p
ans_det	Analysis Code Selection Detail	Analysis Code Select Maint	ppacrl.p
bom_mstr	Product Structure Bill of Material	Product Structure Code Maint	bmmamt.p
cc_mstr ccd1_det ccd2_det	Cost Center Master Cost Center – Account Validation Detail Cost Center – Sub-Account Validation Detail	Cost Center Code Maintenance	glccmt.p
cd_det	Master Comments	Master Comment Maintenance	gpcmmt.p
cm_mstr ad_mstr ls_mstr	Customer Master Address Master Address List Master	Customer Maintenance	adcsmt.p

Table 2.61
Tables to
Synchronize

Table 2.61 — *Tables to Synchronize* — (Page 1 of 3)

Table	Table Description	Menu Label	Program
cm_mstr ad_mstr ls_mstr	Customer Master Address Master Address List Master	Customer Ship-To Maintenance	adstmt.p
code_mstr	Generalized Codes Master	Generalized Codes Maintenance	mgcodemt.p
cp_mstr	Customer Item Master	Customer Item Maintenance	ppcpmt.p
cs_mstr	Cost Set Master	Cost Set Maintenance	csmsmt.p
cu_mstr	Currency Master	Currency Maintenance	mccumt.p
dpt_mstr	Department Master	Department Maintenance	rwdpmt.p
en_mstr	Entity Master	Entity Code Maintenance	glenmt.p
exr_rate	Exchange Rate	Exchange Rate Maintenance	mcexrmt.p
fcs_sum	Forecast Summary	Forecast Maintenance	fcfsmt01.p
glc_cal	General Ledger Calendar	GL Calendar Maintenance	glcalmt.p
is_mstr isd_det	Inventory Status Master Inventory Status Detail	Inventory Status Code Maint	icstmt.p
ls_mstr	Address List Master	Address List Type Maintenance	adlsmt.p
pc_mstr	Price List Master – Purchasing	Price List Maintenance	pppcmt.p
pi_mstr pid_det	Price List Master Price List Detail – Sales	Price List Maintenance	pppimt.p
pl_mstr	Product Line Master	Product Line Maintenance	ppplmt.p
ps_mstr	Product Structure Master	Product Structure Maintenance	bmpsmt.p
pt_mstr	Item Master	Item Master Maintenance	ppptmt.p
ro_det	Routing Operation Detail	Routing Operation Maintenance	rwromt.p
sb_mstr sbd_det	Sub-Account Master Sub-Account – Account Validation Detail	Sub-Account Code Maintenance	glsbmt.p
si_mstr	Site Master	Site Maintenance	icsimt.p
spt_det sct_det	Cost Simulation Item Detail Cost Simulation Total Detail	Item-Element Cost Batch Load	ppcsbtld.p
um_mstr	Alternate Unit of Measure Master	Unit of Measure Maintenance	pppummt.p

Table 2.61 — *Tables to Synchronize* — (Page 2 of 3)

Table	Table Description	Menu Label	Program
vd_mstr ad_mstr ls_mstr	Supplier Master Address Master Address List Master	Supplier Maintenance	advnmt.p
vd_mstr ad_mstr ls_mstr	Supplier Master Address Master Address List Master	Supplier Remit-To Maintenance	adrtmt.p
vp_mstr	Supplier Item Master	Supplier Item Maintenance	ppvpmt.p
wc_mstr	Work Center Master	Work Center Maintenance	rwwcmt.p

Table 2.61 — *Tables to Synchronize* — (Page 3 of 3)

Q/LinQ Enhancements

Business Need

The administration of Q/LinQ currently presents a number of challenges to system administrators:

- Q/LinQ depends on another commercial product (Mercator) for data mapping.
- To read and write to multiple MQSeries queues, Q/LinQ needs multiple instances of the adapter that interfaces with message-oriented-middleware (MOM), increasing the complexity and inconvenience of routine system administration activities.
- The command line for starting a MOM adapter lets users specify parameters that are better determined by the system administrator.
- System administrators need more options for tuning performance of the MOM adapter.

MFG/PRO eB2 Solution

The latest release of Q/LinQ offers solutions to all of these issues:

- Q/LinQ now offers an XML data-mapping capability built using Extended Stylesheet Language Transformation (XSLT), the industry standard for XML-based data transformation. XSLT was defined by the World Wide Web Consortium (W3C) as a language for mapping XML data. Therefore, it is a natural choice for manipulating and

▶ See *External Interface Guide: Q/LinQ*.

formatting MFG/PRO data packaged as business object documents (BODs) according to the Open Application Group's (OAG) published specifications.

XSLT is also implemented and supported by open-source initiatives such as the Apache project. By taking advantage of available open-source technology, QAD has eliminated the need for MFG/PRO customers to license any third-party mapping products in order to use OAG BODs for systems integration purposes. All the BODs previously managed using Mercator can now be mapped using QAD-provided XSLT stylesheets instead.

- A single, running MOM adapter can now access any number of MQSeries queues and associate them with a specific Q/LinQ application ID and/or trading partner ID.
- Two parameters have been removed from the MOM adapter command-line format and added to the `QqMomAdapter.ini` file.
 - The `port` parameter in the `[startup]` section identifies the port number where the MOM adapter will listen for Q/LinQ connections.
 - The queue names accessed by the adapter are now specified in the `[inbound routing]` and `[outbound routing]` sections.
- Several new time-out parameters added to `QqMomAdapter.ini` offer more options in tuning the MOM adapter for better performance.
 - Use `QlinqTimeOut` to specify the number of seconds that the MOM adapter waits for a communications acknowledgment from Q/LinQ after sending a document to it.
 - Use `MomTimeOut` to specify the number of milliseconds that the MOM adapter waits for a response from the MOM while reading a message from it.
 - Use `MomPollTime` to specify the number of seconds that the MOM adapter waits between polls of the MOM when looking for more messages.

Note Many of the changes described here were introduced in service packs to Q/LinQ available for earlier versions of MFG/PRO.

Key Features

Using the new features of Q/LinQ, you can:

- Use QAD-provided XSLT stylesheets to map BODs, rather than a purchased commercial product.
- Simplify system administration by using a single instance of the MOM adapter to access multiple MQSeries queues.
- Specify new startup parameters for the MOM adapter in an initialization file.
- Specify new time-out parameters for the MOM adapter in an initialization file.

Advanced Planning and Optimization Available to Promise

Advanced Planning and Optimization (APO) now includes features that let MFG/PRO eB2 users receive real-time, up-to-date available-to-promise (ATP) data from the advanced planning applications from Adexa, Inc. This ATP data is based on the latest advanced planning solution generated in the Adexa application from imported MFG/PRO eB2 data, as well as updated demand data provided with the ATP request.

Note The APO products are available directly from Adexa, Inc. The implementation of the MFG/PRO interface must be performed with the assistance of QAD Global Services. Contact your QAD account representative for information.

The APO ATP features are available only to customers using one of the Adexa applications. However, other MFG/PRO eB2 users can now take advantage of the ATP enforcement feature that has been added as standard product.

▶ See “ATP Enforcement” on page 56.

Business Need

To ensure that adequate inventories will exist to fulfill orders, businesses need to know how current orders and planning functions will affect projected inventories. Without this information, orders might be confirmed without sufficient inventory to ship by the due date. In

addition, lack of integrated information about current demand and future planning limits a business's ability to modify planning to meet projected inventory requirements on time.

MFG/PRO eB2 Solution

MFG/PRO eB2 uses synchronous API programs to exchange demand and ATP data with an APO application. The system communicates new order demand to an existing planning model, which returns real-time, up-to-date ATP information to MFG/PRO eB2. When MFG/PRO eB2 commits the order line, the planning application considers the demand as firm, pegging it to sources of supply so that subsequent ATP responses are based on up-to-date information.

Key Features

Using the features of APO ATP, you can:

- Obtain ATP information directly from the model in the planning application based on new demand entered as confirmed MFG/PRO eB2 sales orders.
- In the Service/Support Management (SSM) module, obtain real-time APO ATP data for return material authorizations (RMAs) and material orders (MOs).
- Determine ATP for confirmed sales orders that are generated from customer purchase orders imported using EDI ECommerce.
- Set up connection and log-in data required by the planning model, as well as associate specific item-site combinations with the model that plans them.
- Use an inquiry to simulate the order process without entering an order. For example, an order-entry clerk can run the inquiry before generating a sales order to determine whether to commit to the customer's required date.
- Specify whether the system should use standard ATP enforcement functionality when APO ATP is not available.

New Programs

Table 2.62 lists the new programs added to MFG/PRO eB2 to support APO ATP.

Menu Number	Description	Program Name
36.5.5.13	APO Model Definition	giapommt.p
36.5.5.14	APO ATP Site/Item Definition	giaposmt.p
36.5.5.16	APO ATP Inquiry	giapoiq.p
36.5.5.24	APO ATP Control	giapopm.p

Table 2.62
New APO ATP
Programs

Modified Programs

Table 2.63 lists the menu-level programs that were modified to support APO ATP.

Menu Number	Description	Program Name
7.1.1	Sales Order Maintenance	sosomt.p
7.1.5	Sales Order Confirmation	sosoco.p
10.7.1, 11.11.1	MO Maintenance	fseomt.p
10.7.2, 11.11.2	MO Confirmation	fseoco.p
11.7.1.1	RMA Maintenance	fsmamt.p
11.7.1.6	RMA Confirmation	fsmaco.p

Table 2.63
Programs Modified
by APO ATP

Minor Enhancements

QAD has put in place a process for capturing and implementing minor enhancements based on customer requests. This section outlines minor enhancements that are included in MFG/PRO eB2.

Table 2.64
Minor
Enhancements

Enhancement Number	Description
4LHK4X	Control Tables Report (36.17.6) has been updated to include control information for optional modules such as PRO/PLUS and other new functions.
4LJLK2	AP Payment Register (28.9.12) no longer displays multiple header rows, and columns align correctly in the summary and detail reports.
4LKKYT	Address Code Change (2.11) has been rewritten to significantly improve performance.
4LRFY3	Item description now displays next to the item number field in Supplier Schedule Maintenance (5.5.1.13).
4LRSFW	Approver Report (5.2.1.17) now lets you select from a set of sort options including approver type, category, sub-account, entity, and cost center.
4MSK8S	Address Code Change (2.11) can now be executed in batch mode.
4N8QQ7	Build PO from Requisitions (5.2.18) now generates and sends e-mail when a requisition line is converted to a purchase order. When all lines on a requisition are converted, a summary e-mail is sent. The level of notification is controlled by the e-mail option selected in Requisition Control (5.2.1.24).
4NEFM2	Customer Dunning Letter Print (27.11) includes a new field—Totals in Base Currency Only—that lets you display all aged totals in base currency or separate totals for each invoice currency.
4NPGMY	Schedule Print (5.5.3.8) and Schedule Print in Fax Format (5.5.3.9) include a new field—Print Lines With Zero Required Quantity—that lets you suppress printing schedule lines with zero required quantity.
4NWHRE	Blanket Order Release to PO (5.3.6) now generates a report listing orders released to purchase orders and details such as the purchase order number created, supplier, line, item, unit of measure, quantity ordered, and due date.
4P3HCZ 4N9P5S	A new Container Delete/Archive (7.7.23) function now lets you delete unused container records for a range of sites and numbers, rather than one at a time.

Table 2.64 — *Minor Enhancements* — (Page 1 of 2)

Enhancement Number	Description
4PSMJU	Quality Order Maintenance (19.7) now lets you input a GL effective date and validates that the transaction is occurring in an open period.
4PYB47	A ship-to address recorded in Purchase Order Returns (5.13.7) is now stored in history and printed on the document generated by Purchase Return Document Print (5.13.8).
4TCMPD	Closed PO Delete/Archive (5.23) now lets you select POs to archive or delete by type, including discrete purchase order, blanket orders, planned returns to supplier, and orders released from blanket orders.
4X8BEY	A message now displays in the following order functions to warn users that when they press the End key in the order trailer, changes to tax details are not saved: • Sales Order Maintenance (7.1.1) • Sales Quote Maintenance (7.12.1) • Pending Invoice Maintenance (7.13.1) • RMA Maintenance (11.7.1.1)
4LVMCB	A field for entering a standard industrial classification (SIC) code has been added to Customer Maintenance (2.1.1) and also displays on the Customer Master Report (2.1.4).
	A number of significant performance enhancements in an Oracle environment have been made to the following programs: • Cost Set Copy to Cost Set (30.3), Routing Cost Roll-Up (14.13.13) • Sales Order Print (7.1.3), Sales Quote Print (7.12.3), Invoice Print (7.13.3) • Transaction Post (25.13.7) • Sales Order Maintenance (7.1.1), when changing the sold-to address

Table 2.64 — *Minor Enhancements* — (Page 2 of 2)

