



MFG/PRO eB2
Service Pack Release Notes

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Overview

This document describes significant changes to features of MFG/PRO eB2 introduced in each service pack since the initial MFG/PRO eB2 release. The document is cumulative. Review the release notes to understand how changes may affect your current implementation.

These release notes describe changes that affect the user interface or otherwise alter existing application features. To ensure complete and up-to-date information on minor updates, listings of changes associated with each Engineering Change Order (ECO) are available at the QAD Web site. To view ECO listings, use the Project Changes & Advisories links at the following address:

https://support.qad.com/cgi-bin/bin/qad_osc_login.pl

To access the ECO listings, you must have a QAD Web account. You can register for a QAD Web account on <http://support.qad.com>.

Service Pack 13 Release Notes

Service Pack 13 for MFG/PRO eB2 includes all ECOs closed between October 24, 2006, and January 8, 2009. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Quality Management

Limitation on Blank Number Field

Master Specification Maintenance (19.1.1) and Item Specification Maintenance (19.1.13) have been modified to prevent you from defining a specification that includes test steps with the Number field (mpd_type, ipd_test) blank. A blank creates problems when recording test results in some user interfaces, so the Number field is now a required value.

After installing the release, you should run the new utility Update Blank Master Specification (19.25.1, utmpnbr .p) to populate blank mpd_type and ipd_test fields in existing records.

- 1 First run the program in simulation mode, then review the resulting report.
- 2 Set Update Master Specification and/or Update Item Specification to Yes. The system sets each instance of a blank field to *****.
- 3 Use the browses and reports on the Specifications Menu (19.1) to identify updated records.
- 4 Manually modify the Number field in the appropriate maintenance program as needed.

Report Comments

A new Print Detail Comments field in Quality Order Results Report (19.12) lets you display comments related to item specifications, as well as detailed comments about failed material.

Formulas

A new Formula Only field has been added to Formula Cost Report (15.7.4) and Item-Site Formula Report (15.7.8). Set the field to Yes to limit the report to formulas. Otherwise, it includes both formulas and product structures.

Additionally, Formula Inquiry (15.6) and Item-Site Formula Inquiry (15.7.7) have been modified to display only records with Formula set to Yes in Formula Code Maintenance (15.1). Previously, these programs also displayed product structure records.

Deleting Alternate Structure Records

Alternate Structure Maintenance (13.15) has been modified to delete multiple alternate structure records—identified by a different Reference value—when the parent record is deleted. When such multiple records exist, the system prompts you before deleting the additional records.

Previously, the additional records were not deleted.

Routing Cost

A site range has been added to the selection criteria in Item Routing Cost Report (14.13.15).

Additionally, the program has been modified to look first for site-specific records defined in Item-Site Planning Maintenance (1.4.17). Previously, it only selected records defined in Item Master Maintenance (1.4.1).

Cost Sets

Based on a new Sum Costs to MTL TL for DRP field in functions that copy cost sets, you can now copy and sum production costs from the manufacturing site to the distribution site. This new feature is available in the following programs:

- Current Cost Set Move to GL Set (1.4.22)
- GL Cost Set Move to Current Set (1.4.23)
- Cost Set Copy to Cost Set (30.3)
- Simul Item-Element Cost Copy (30.13.9)
- Item-Element Cost Copy (30.17.9)

When Sum Costs to MTL TL for DRP is Yes, the system rolls up this/lower-level costs into this-level (TL) material costs during the copy process. Otherwise, costs are copied as-is—the system behavior before this field was added.

For example, the new feature lets you build subassemblies at one site, ship them to a second site, and continue the manufacturing process without requiring manual updates to the subassembly cost.

Lean Manufacturing

Card Management

A new Kanban Activity Recap function (option 6) has been added to Kanban Card Management (17.22.16.16) to let you print cards before exiting from the program. If any cards were created or activated, this function displays the Kanban Activity Recap frame. Individual logical fields let you print created cards, activated cards, or both. You can also print card comments.

Note The print function applies only to cards created or activated during the current session.

Previously, the system was designed to display a print frame before exiting if cards had been created or activated during the session. However, this function did not work consistently in non-character user interfaces.

Accumulator Monitor

A new Enter Number of Times to Execute field has been added to Accumulator Monitor (17.22.19.6).

The default is 0 (zero). If you do not change this, the process continues to run until you stop it manually, just as it did before the field was added.

If you enter a number, the process runs the specified number of times, then exits.

You can use this field to eliminate an issue related to batch processing. Previously, when the program was run in batch, the batch processor did not have an exit point for Accumulator Monitor. If other programs were included in the same batch, the processor never got to them. However, you can now enter a value in this field. After running Accumulator Monitor the specified number of times, the batch processor moves on to the next task in the batch.

Kanban Master Copy

A new Copy Number of Cards field has been added to Kanban Master Copy (17.22.8) to provide flexibility in the way loop records are copied.

When this field is Yes (the default), the system creates the new loop record with the same number of kanban cards as the source loop. For two-card loops, both replenishment and move cards are included. This was the system behavior before the new field was added.

Set the field to No to create the new loop with the Number of Cards field set to 0. You can then update the number in Kanban Master Maintenance (17.22.4) or Kanban Workbench (17.22.23.1).

Note This setting only controls the value of the Number of Cards field. You still must use standard card management functions to actually create the cards for the new loop.

Customer Address on Shippers

A new Print Customer Address field has been added to Pre-Shipper/Shipper Print (7.9.4) and Pre-Shipper/Shipper Workbench (7.9.2).

The default is Yes; the customer address code and name print on the shipping document. This was the system behavior before the new option was added.

Set Print Customer Address to No to suppress the address code and name on the printed document. For example, this supports a direct-ship scenario in Enterprise Material Transfer (EMT). In that case, the customer address is actually the primary business unit (PBU) that recorded the order—not the real end customer. You can suppress the address code on the shipping document to avoid confusion when the end customer receives the order.

Invoices

A new Print Tax ID on Invoice field has been added to Sales Order Control (7.1.24).

When this field is Yes, the output of Invoice Print (7.13.3) includes the Tax ID - Federal value specified in the tax frame of Customer Maintenance (2.1.1).

The new field also applies to other programs that let you print invoices, such as shipping functions.

Pending Invoices

A Consume Forecast field has been added to the header and line levels in Pending Invoice Maintenance (7.13.1). The header field defaults to Yes; new line records default from the header. On existing orders, the line Consume Forecast value defaults from the order line, but you can modify it as needed.

Previously, when you entered an order directly in Pending Invoice Maintenance, the system automatically used forecast consumption logic. Additionally, although the setting from existing order lines was stored in the pending invoice record, the field did not display in the user interface and could not be updated.

Logistics Accounting

A new Include Logistics field has been added to Purchase Receipt Report (5.13.5). You can set use this field to control how variances between the PO cost and the Standard GL cost are reported.

Yes: The system considers logistics charges when calculating variances. You should set the field to Yes to avoid misleading results in this report when you are using Logistics Accounting.

No (the default): Variances are based strictly on a comparison between PO cost and Standard GL cost, without considering logistics charges. This is the way the system behaved before the new field was added.

Unvouchered Receipts

A new PO Site selection range has been added to Unvouchered Receipts as of Date (5.13.10). This lets you generate a report for reconciling receipts in cases where the purchase order site and the receiving site are not the same.

Previously, you could only generate a report based on the receiving site.

VAT Registration Codes

A new table-based function has been introduced to support value-added tax (VAT) registration code formats required for European Union (EU) countries.

Previously, additions or modifications required changes to the source code. Now, when new countries are added to the EU, corresponding valid formats can be defined as table entries.

This enhancement adds three new menu programs:

- Use VAT Registration Format Maint (2.13.3.20) to enter or update registration code formats. Specify a VAT prefix (country code), country name, and up to 9 valid formats. Processing functions have been updated to validate that the specified VAT code matches a format defined for the associated country in this program.

Use the following standards for creating a format:

- Do not enter the country code as a prefix. The system builds valid records by adding the value from the VAT Prefix field.
- 9 represents any number 0-9.
- A represents any letter A-Z.
- X represents any number 0-9 or letter A-Z.
- Define a record with blank VAT Prefix to allow for a blank ID in any addresses in a country without a VAT registration number.

Note The Dutch format (VAT prefix NL) requires the letter B as a hard-coded character in position 10: 999999999B99.

- Use VAT Registration Format Inquiry (2.13.3.21) to view existing records.
- Use VAT Registration Format Init (2.13.3.25, `utvatreg.p`) after installing the release to load an initial set of format definitions. The initial data load includes valid format definitions for EU member countries as of January 2007.

Retained Taxes on Printed PO Returns

A new Include Retained Tax field has been added to Purchase Order Return Document Print (5.13.8). Set the field to No to have the system suppress printing of retained tax amounts from the output and exclude taxes from totals. When the field is Yes (default), the system includes retained taxes on the documents, as it did before the field was added.

Retaining taxes is a common practice in some countries. For example, when customers in the European Community send POs to suppliers outside their national boundaries, taxes are typically retained. Customers of these suppliers pay

the purchase amount minus tax to the supplier but are required to calculate, post, and periodically pay the tax amounts on their purchases directly to the government of the supplier's country.

General Ledger Report Writer

A new Field Separator field has been added to GL Report Writer Control (25.21.24). When you export a report to a file using Run Report (25.21.17), the system uses the specified character as a field delimiter.

Previously, the system used a hard-coded comma to separate fields. This new feature provides the flexibility needed to support international requirements.

1099-MISC Form

The 1099-MISC Magnetic Media Report (28.20.3) has been updated to conform to reporting requirements for tax year 2008. In the Transmitter "T" record, two fields, Cartridge Tape File Indicator (positions 409-410) and Transmitters Media Number (411-416), were deleted. These positions are now blank.

Service/Support Management

Material Orders

You can now modify the GL effective date in Material Order Shipments (10.7.6 or 11.11.6) and MO Direct/Pending Returns (10.7.8 or 11.11.8).

Previously, no Effective Date field was available. The transactions were always effective on the current date.

Contract Price Rounding

A new Intermediate Rounding field has been added to Contract Control (11.5.24). This affects the way extended prices are calculated by service contract quote, maintenance, shipping, billing, and invoicing functions.

- When this field is Yes (the default), the system first multiplies the net price by the item quantity and rounds the result. It then multiplies this value by the quantity to bill—based on the billing cycle code—and rounds the total to yield the extended price.

This was the only method available before the new field was added. In some cases, rounding twice during the calculation can limit the amount of precision available to the user. For example, a contract priced at \$100 per year might have a system-calculated price during contract invoicing of \$99.96.

- When Intermediate Rounding is No, the system consistently calculates the extended price by multiplying the item quantity by the net price and the quantity to bill, then rounding the result. In this case, the same \$100 contract would be invoiced at \$100.

Bill-To Address in RTS

A Bill-To field has been added to RTS Maintenance (11.7.3.1). The default is blank; you can enter any valid company address code.

When you print the return-to-supplier document using Purchase Order Print (5.10) with Print Bill-To Address set to Yes, the street address associated with the address code prints on the RTS.

Previously, you could not include a company address on the printed RTS.

EDI eCommerce

New Audit Reports

A new Export Audit Reports menu (35.4.6) has been added. You can use these programs to view information about exported documents. Specific details vary by document type; for example, the ASN report includes the site, shipper number, ship-to address, and shipping date, as well as status data. All reports include batch information.

The following table lists the new audit report programs.

Menu	Menu Label	Program Name
35.4.6.1	ASN Export Audit Report	edexasrp.p
35.4.6.2	Invoice Export Audit Report	edexivrp.p
35.4.6.3	Order Export Audit Report	edexporp.p
35.4.6.4	Schedule Export Audit Report	edexscrp.p
35.4.6.5	Order Ack Export Audit Report	edexparp.p

Variables Update Utility

A new utility program, Update Transformation Variables (35.17.22, `uxedtrv.p`), has been provided to support EDI eCommerce performance enhancements that are included in the release.

If you use EDI eCommerce, you must run this utility after installing the release update to avoid errors during document processing.

Service Pack 12 Release Notes

Service Pack 12 for MFG/PRO eB2 includes all ECOs closed between March 6, 2006, and October 24, 2006. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Work Orders

Work Order Components

A new program, WO Component Check Report (16.4), has been added to expand the features available with Work Order Component Check (16.5).

By entering a work order and ID, you can review component-by-component availability information, as well as a summary of component requirements for all orders due at the same time. When Detail is Yes, the report also lists all work orders that require one or more of the same components. If components have expiration dates before the work order due date, the system does not consider them available, but instead lists expired quantities in a separate column.

Just as in Work Order Component Check, you can show all components, or limit the display to only components with calculated shortages.

The new report also provides a simulation feature. To view the effects of additional, currently unscheduled component requirements, you can leave the work order and ID fields blank and enter an item number, quantity, release date, and optional BOM/formula code. The system generates a report showing component requirements from your new, simulated work order. Based on MRP detail records, it shows the simulated component requirements in the context of requirements from existing work orders, as well as other demand such as sales orders.

You can also use the simulation feature with an existing order to examine what-if scenarios. For example, when you specify a work order and ID, the system fills in the site, order quantity, and release date from the work order record. You can modify these values to determine the effects of modifying the work order.

Note The report displays requirement and receipt data from MRP detail records. To produce up-to-date results, you should generate this report immediately after an MRP run.

Additional Work Order Release Control

A new inventory transaction type (REL-WO) has been added to prevent work orders for specified items from being released to the shop floor. For example, you might want to restrict from release any items that are going to be phased out or obsoleted in the near future.

To use the new feature, use Item Status Code Maintenance (1.1.5) to identify one or more status codes that you want to associate with items that cannot have work orders released. Assign REL-WO to these codes as a restricted transaction, then enter one of these codes in the Status field in Item Master Maintenance (1.4.1) or Item Data Maintenance (1.4.3) for any item you want to prevent from being released on a work order.

If you attempt to release an order for such an item in Work Order Maintenance (16.1), Work Order Release/Print (16.6), or Multiple WO Release/Print (16.7), the system displays an error message.

Price Lists

You can now use the Minimum Order field (previously labeled Min Ord Qty) in Price List Maintenance (1.10.1.1) to enforce a minimum item quantity on order lines. On sales orders, you can also track the reason a user chooses to override a system-generated warning message when the minimum order requirement is not met.

When you set up a price list with Quantity Type set to Quantity and a minimum quantity specified, and best-pricing logic selects that list during order entry, the following programs validate the order, quote, or invoice line quantity against the Minimum Order value:

- Sales Order Maintenance (7.1.1)
- Sales Quote Maintenance (7.12.1)
- Pending Invoice Maintenance (7.13.1)
- RMA Maintenance (11.7.1.1)

This updated logic applies only when the line quantity is greater than 0 (zero). Additionally, in programs other than Sales Order Maintenance, it applies only when Line Pricing is Yes on a new order, or you are modifying an existing order and Reprice is set to Yes.

When the cumulative order quantity for any item number is less than the specified minimum for the price list, a warning message displays at the end of line-item entry.

Note When multiple price lists are selected for an item, the system applies the largest Minimum Order value.

When Quantity Type is set to Amount, the system behaves the same way it did before this enhancement. If the total order currency value is less than the Minimum Order value, the system displays a warning message in the order trailer to provide an option to complete the order using the selected price list.

Additional Sales Order Maintenance Minimum-Quantity Features

In Sales Order Maintenance only, if the user chooses to continue using the price list after a below-minimum order warning displays, you can optionally have the system prompt for a reason code:

- Use Reason Code Maintenance (36.2.17) to define appropriate reason codes associated with reason type Ord_Chg.
- Set Keep Booking History to Yes in Sales Order Control (7.1.24).

When you use this feature, navigation depends on the value of Line Pricing.

- Yes: The system displays a prompt after each line when a below-minimum quantity is entered.
- No: The system displays an additional frame before the trailer listing all lines on the order that do not meet minimum-quantity requirements. You can select a line number and specify whether you want to accept the quantity, then add a reason code and comment as needed.

You can then use Booking Transaction Report (7.15.14) with Include Reason/Comments set to Yes to review the reason the user gave for entering a quantity below the specified minimum.

Item-Site Planning

Several item maintenance programs have been enhanced to let you manage site-specific item planning records more efficiently by letting you create item-site records at the same time you enter new items. Additionally, programs that maintain item master records now display a warning message when item-site records exist—minimizing potential confusion about which program should be used to maintain existing records. These enhancements benefit companies that maintain the same item numbers at multiple sites.

In Item Master Maintenance (1.4.1) and Item Planning Maintenance (1.4.7), when you advance to the Item Planning Data frame, the system checks for site-specific records created in Item-Site Planning Maintenance (1.4.17). If records exist, a warning message displays so you can update those records as well.

Additionally, a new Create Item-Site Planning Data field has been added to Item Master Maintenance, Item Data Maintenance (1.4.3), and Item Master Copy (1.4.12). When the field is Yes, the system automatically creates an item-site planning record when you add a new item. On existing records, the field is set to No and cannot be updated.

When you use Item Data Maintenance to create a new item, you can now update the inventory site at the same time. Previously, the system used the site specified in Inventory Control (3.24). This is still the default value, but now you can change it.

The default for Create Item-Site Planning Data is set in a new menu program, Item Control (1.4.24). The control field default is No.

Note The system always validates site security before generating item-site records.

A related utility program has also been added. Use Item-Site Planning Utility (1.4.25, `utfxps.p`) to support the new functionality by adding item-site planning records for existing item master records. Select item master records based on ranges of product line, item number, and item type. For each item matching the selection criteria, the system looks for an item-site planning record that uses the site specified in Item Master Maintenance. For an item that does not have a matching record, the system verifies that you have security access to the site, then creates an item-site planning record.

Important This program is designed to be run twice. First, set Update to No (the default) to run the program in simulation mode. In the output report, the Added column indicates which item-site records will be created when the program runs in update mode. The Remarks column includes the reason that a record will not be created; for example, if you do not have security access to the site. When you have verified that the program will create the correct records, run it again with Update set to Yes.

Inventory Transfers

Inventory Control functions have been updated to provide better control over the way the programs on the Inventory Transfer Menu (3.4) manage detail allocations and picked inventory by transferring location detail records when the associated inventory is transferred. This helps avoid situations where inventory that has been picked or detail allocated is selected for transfer to a different location and may be seen as available to other orders.

Transfer Logic Setup

Use the new Detail Allocation Transfer Logic frame in Inventory Control (3.24) to define the method the system uses to select allocated and picked inventory for transfer when sufficient unallocated inventory is not available. The frame includes three fields:

- Transfer Option. Choices are:
 - 1: Include detail allocated quantity and exclude picked quantity. This is the default.
 - 2: Include both detail allocated and picked quantity. The system first considers allocation detail records with non-zero allocated and zero picked, followed by those with non-zero picked.

3: Exclude inventory transfers unless an adequate unallocated quantity is found. The system displays an error message when it cannot find sufficient unallocated inventory.

- **Detail Allocation Sort Option.** This determines whether the system lists selected allocated inventory records by due date or by quantity, in the specified ascending or descending order. When Due Date is selected (the default), the system uses the order number associated with the detail allocation to determine the due date from MRP records.
- **Ascending or Descending.** Enter Descending (the default) to have the system list records with the largest quantity or newest due date first. Enter Ascending to start the list with the smallest quantity or oldest due date. In combination with Detail Allocation Sort Option, this setting determines the sequence in which records are listed for selection using the specified transfer option. The system selects records from the list in top-to-bottom order.

Note All selection logic is based on some common restrictions:

- When the transfer-to location is customer reserved, detail allocated quantities can be transferred only when the new location is reserved for the customer address associated (through the sales order number) with the allocation detail record.
- The system does not select detail allocated or picked quantities if the From and To locations are in different sites, or when the inventory status code at the To location has Available set to No, unless it is a reserved location for the same customer.

Transfer Program Updates

The following inventory transfer programs have been updated to use the logic defined in the new frame.

- **Transfer–Single Item (3.4.1):** If the program determines that sufficient unallocated inventory is unavailable and the Inventory Control transfer option is 1 or 2, a warning displays and prompts you to continue with the transfer. The system searches for additional quantities to transfer based on the new Inventory Control settings. If the required quantity is available for transfer, the system updates inventory records in the new location with the previous allocation details. If not, an error message displays, and the cursor returns to the Quantity field.

When the transfer option is 3, an error displays, and you cannot transfer the specified quantity. The cursor returns to the Quantity field.

- **Transfer–Multi Item (3.4.2):** This program now allows partial transfer of unallocated and allocated inventory from locations identified by the selection criteria. It uses the new Inventory Control logic to search for allocation detail records, subject to intersite, reserved location, and inventory status restrictions. The system then updates selected detail records with the new location.

- **Transfer with Lot/Serial (3.4.3):** The program now uses the Inventory Control logic to select allocated inventory as needed. The system also determines if the values of the Transfer From/To Lot/Serial fields are different and the Allocate Single Lot field in the item master record is Yes. When this is true and the detail allocations records with the specified lot/serial will be split during transfer, the system displays a warning message that allocations should be from a single lot.
- **Batchload with Lot/Serial (3.4.4):** When Transfer Allocated Inventory is Yes, the program has been modified to work the same way as Transfer with Lot/Serial.

Cycle Count Modifications

The first frame of Inventory Control also has a new Cycle Count Recount field. It lets you specify the level of enforcement that is applied when the quantity entered in Cycle Count Results Entry (3.14) during a recount is less than the detail allocated quantity.

- **None (default):** The system accepts recount values regardless of detail allocations.
- **Warning:** The system displays a warning message but still accepts a value that is less than detail allocations.
- **Error:** The system displays an error message and does not accept the recount.

Several other inventory-related programs have also been updated to provide visibility into detail allocations.

- **Cycle Count Worksheet Print (3.13):** When Print Quantity OH is Yes, the output includes a new Detail Alloc field. It displays the total detail allocated and picked quantity for the corresponding item.
- **Cycle Count Results Entry (3.14):** When allocated inventory is associated with an item, the program has been modified to compare the quantity counted with the total detail allocated plus picked quantities. When the recorded cycle count quantity is smaller, specific actions depend on the value of Cycle Count Type.

Initial Count: A warning message displays; the system records this as a rejected initial count.

Recount: Based on the Cycle Count Recount setting, the system either accepts the recorded quantity, warns you that allocations exist but lets you continue recording the value, or displays an error and returns to the Quantity Counted field.

- **Cycle Count Results Report (3.15):** A new Display Detail Allocation Quantity field has been added; the default is No. When you set the field to Yes, a new Detail Alloc field displays on the output report above Annual Use. It displays the sum of the detail allocated and picked quantity amounts from the location allocation detail record.

- **Counted Tag Report (3.16.14):** An additional warning code has been added to items for which the sum of all detail allocated and picked quantities is greater than the quantity counted. These items display D (Detail allocation exists and exceeds counted quantity) in the Warnings column.
- **Inventory Variance Report (3.16.18):** Similar logic has been added. In this case, 6 displays in the Warnings column. Additionally, you can use the new Print Counted Tags with Warnings Only field to limit the report to items that are associated with one or more warning messages.

Consignment Menu Changes

Two consignment inventory programs have been moved to utility menus:

Menu Label	Program	Old Location	New Location
Consignment Inventory Adjustment	pocnadj.p	5.18.21	5.18.25.21
Consignment Inventory Adjustment	socnadj.p	7.18.21	7.18.25.21

These programs were designed as limited-use functions that only adjust consignment balances without affecting such elements as inventory valuation, general ledger, and quantity on hand. They are typically used under very specific, limited circumstances. Moving them to utility menus makes it less likely that users might inadvertently run them without knowing that they are not adjusting all the transactions related to the sales or purchase order business cycle.

Shipping

Item-Level Tare Weight

You can now enter a tare weight when you add an item to a pre-shipper, shipper, or container. Additionally, you can update the Tare Weight field on an existing line. This enhancement applies to Pre-Shipper/Shipper Workbench (7.9.2) and Container Workbench (7.7.1).

Previously, you could not enter a tare weight during line data entry; it displayed as read-only after the line was entered. The tare weight could be updated only at the top level of the pre-shipper, shipper, or container.

Tare weight is the weight of the container only, not counting the contents.

Customer Ship-To Fields

A new Ship-To Data frame has been added to Customer Ship-To Maintenance (2.1.13) that lets you enter additional customer ship-to specific default values used in several order-entry programs when you specify that ship-to address. Previously, these values came directly from Customer Maintenance (2.1.1). Now, order-entry

programs use the Customer Ship-To Maintenance values when they are specified. For fields that are left blank, defaults continue to come from the Customer Maintenance record for the sold-to address.

The new frame includes fields for salesperson code (including a Multiple setting that lets you enter up to four codes), type, shipping site, ship via code, remarks, and region, as well as the same fields included in the Customer Freight Data frame. All default to blank; validations are the same as in Customer Maintenance.

Note Best-pricing activities continue to use the type and region specified in Customer Maintenance.

When you create a customer ship-to record directly in one of the following programs by entering a new value in Ship-To, the system displays the new fields with blank values.

- Sales Order Maintenance (7.1.1)
- Sales Quote Maintenance (7.12.1)
- Sales Quote Copy from Order (7.12.5)
- Sales Quote Copy from Quote (7.12.6)
- Pending Invoice Maintenance (7.13.1)
- S/RO Maintenance (7.23.1)
- Project Maintenance (10.1.1)
- RMA Maintenance (11.7.1)
- Material Order Maintenance (11.11.1)

Some reporting programs have been modified to support this enhancement:

- Customer Ship-To Address Report (2.1.15) includes the additional fields when the new Display Ship-To Data field is Yes.
- Salesperson Assignment Report (2.1.18) includes a new Ship-To column.

Orders To Ship Report

A new Orders To Ship Report (7.15.12) lets you view information about the following types of orders from a single program:

- Sales orders
- Material orders
- Customer scheduled orders
- Distribution orders

Specify criteria to select orders based on required or due date, site, item number, and so on. For example, you can view all orders that are due to ship to a specific address code or from a specific site on a given day.

Use individual fields to add customer schedules and/or distribution orders as needed. (By default, sales orders and material orders are always included in the report.) When you choose to include scheduled orders, you can select the order type. You can also control whether the report includes orders with memo item lines, as well as those that include a value in the Action Status field, such as orders on credit hold.

Line-Level Ship Via Code

You can now enter a ship via value for each individual line on a discrete sales order or quote, a customer scheduled order, or an RMA. Previously, the same ship via code applied to the entire order.

The following programs have been modified to place the Ship Via field in the same header frames where you enter salesperson data, freight information, and so on.

- Sales Order Maintenance (7.1.1)
- Sales Quote Maintenance (7.12.1)
- Pending Invoice Maintenance (7.13.1)
- RMA Maintenance (11.7.1.1)

In Scheduled Order Maintenance (7.3.13), the header-level ship via remains in the Order Data frame.

Note When you are using Enterprise Material Transfer (EMT), system-generated EMT purchase orders continue to reference the header-level ship via specified in Sales Order Maintenance. Additionally, the enhancement does not apply to material orders (MOs) or any orders created in the Project Realization Management (PRM) module.

As it did previously, the order-level ship via value for all programs defaults from Customer Maintenance (2.1.1).

Note Another enhancement included in this service pack lets you specify ship via for individual customer ship-to addresses in Customer Ship-to Maintenance (2.1.13). If the order references a customer ship-to, the system uses the ship via from that record as the order default value. For more information, see “Customer Ship-To Fields” on page 16.

Additionally, a new Ship Via field displays during line entry, defaulting from the header value. It is validated against values entered in Generalized Codes Maintenance (36.2.13) for field so_shipvia. You can update it only in single-line entry mode.

To support this enhancement, several other menu programs have been modified:

- New fields have been added to Sales Order Packing List (7.9.13). You can now enter a range of ship via codes for selecting order lines. Additionally, a New Page by Ship Via field lets you determine whether the list is sorted by

order number and ship via code, starts a new page for each ship via, and uses the line ship via for the document header on each new page. When the field is No, the packing list header does not include a ship via. Instead, the code displays on each line.

- Sales Order Shipments (7.9.15) and RMA Shipments (11.7.1.16) now include a Ship Via field for each line item. The value defaults from the order line; you can update it to any valid ship via code. The Ship Via field has been removed from the trailer frame.
- Sales Quote Copy from Quote (7.12.5), Sales Quote Copy from Order (7.12.6), and Sales Quote Release to Order (7.12.10) include the source document header and line ship via values in the destination document.
- The invoice print function in several programs has been modified to add the ship via to individual lines when the line value is different from the header ship via. These include Pre-Shipper/Shipper Confirm (7.9.5), Shipper Unconfirm (7.9.21), Invoice Print (7.13.3), and Closed Invoice Reprint (7.13.12).
- Invoice Post (7.13.3) includes the new line-level value in the invoice history record.
- Scheduled Order Inquiry (7.3.14) and Scheduled Order Report (7.3.15) also display the line-level ship via, rather than the header value.

A new conversion utility is provided with the service pack to copy the order-level ship via to individual order lines on existing records. It is run during the installation procedure. See the service pack install instructions for information.

Pallets on Shipping Documents

A Total Pallets field has been added to the second header frames of Pre-Shipper/Shipper Workbench (7.9.2) and Sales Order Shipper Maintenance (7.9.8).

You can use this field to record the number of pallets or skids that are included in a shipment so that it can be printed for reference on shipping documents. For example, you ship a total of six containers of merchandise, but your customer requests that you deliver it on pallets that hold two containers each. Enter 3 in the Total Pallets field.

Three programs have been modified to print the Total Pallets label and value:

- Pre-Shipper/Shipper Print (7.9.4)
- Sales Order Shipper Print (7.9.9)
- Bill of Lading Print (7.9.12.1)

Printing BOLs from Shipment Programs

You can now print a bill of lading (BOL) directly from the shipper maintenance programs. Previously, you had to complete the shipper and optionally print it in one program, then use Bill of Lading Print (7.9.12.1).

A new Print Bill of Lading frame has been added to the following programs:

- Pre-Shipper/Shipper Workbench (7.9.2)
- Sales Order Shipper Maintenance (7.9.8)

The new frame displays after the Print Shipper frame. It includes the same fields as Bill of Lading Print; however, the Ship-From ID and Shipper values default from the current shipper. You cannot update them.

Lean Manufacturing

The calculation logic that validates pitch quantity has been modified in Kanban Process Maintenance (17.22.3) and Basic Process Calculations (17.22.11) to add a threshold value.

Because current functionality supports only fixed-pitch processes, pitch quantity calculations use a lowest-common-multiple approach. If the user-specified process pitch quantity is not a common multiple of all the kanban quantities of the loops using the process, the system previously recommended the lowest common multiple.

However, when a process supports many loops with various kanban quantities, the quantity recommended using this approach could be unrealistically large. The calculation time involved could also have a significant impact on system performance.

Now, the calculation uses the following threshold value:

$$100 * \text{Largest kanban quantity}$$

As soon as the calculated lowest common multiple exceeds this value, the system assumes that this is a variable-pitch process. It displays a message recommending that you set the pitch to the largest kanban quantity.

Repetitive and Advanced Repetitive

A new Allow Zero Run Rate field has been added to Repetitive Control (18.24) and Advanced Repetitive Control (18.22.24). It lets you define a global run rate in Production Line Maintenance (18.1.1 or 18.22.1.1) that applies to all items on the line.

When the new field is Yes, the Units/Hour field at the item level in Production Line Maintenance defaults to 0 (zero). The system then uses the production line-level Units/Hour to determine the item run rate. If you change the item-level

value, the system uses that run rate for the specific item only. This lets you define item-level run rates by exception—using the production line-level rate for the majority of items.

Leave Allow Zero Run Rate set to No (the default) to have the system behave as it did previously. The Units/Hour field for new item records defaults from the production line value. Although you can update it, you cannot set it to zero. The system always uses the individual item value to determine the run rate.

Quality

A new Include Closed field has been added to Quality Order Report (19.9).

Set this field to No and leave Status blank to limit the report output to open orders. Previously, since open orders have a status of blank, there was no way to show only those orders based on the Status field.

Leave the field set to Yes (the default) to continue using the report as it was before Include Closed was added.

Purchasing

A new RTV (return to vendor) reason type has been added to Reason Code Maintenance (36.2.17) that lets you define reason codes that can be specified in Purchase Order Returns (5.13.7). Additionally, a new lookup browse has been added to the Reason field in Purchase Order Returns that limits the selection to reason codes associated with type RTV.

This requires a change to QAD-provided system data. The new reason type is loaded during service pack installation. See the installation instructions for information.

Accounts Payable

Support for New Canadian Check Printing Requirements

This service pack enhances Payment—Automatic Checks (28.9.9) to support recent changes in check format standards defined by the Canadian Payment Association. The new standard calls for checks to be printed with an extended date format, which appears on its own line above the numerical amount of the check, including a Date label.

To comply with the modified requirements, set the new Use MM/DD/YYYY Date field to Yes. The default is No; you can update the field only when Check Form is 1 or 2.

Regardless of the value of the new field, the program has been modified to include a dollar sign (\$) before the amount.

Additional Pending Voucher Fixes

Note If you have not installed Service Pack 10 or 11, this section does not apply.

This service pack includes additional ECOs and a new utility, Pending Voucher Eff Date (5.25.7, `uxpvdeff.p`), to address issues introduced in Service Pack 10 by ECO P2PJ and its supporting utility, Create Pending Voucher Detail (5.25.6, `uxcrpvod.p`).

ECO P2PJ was designed to fix problems related to pending vouchers. However, after installing it and running the associated utility, other problems have been identified. For example:

- The effective date was not written to the Pending Voucher Detail record (`pvod_det`). As a result, Unvouchered Receipt Report (5.13.10) did not display the receivers based on the effective date of the report.
- The Voucher Invoice History record (`vph_hist`) related to the newly created Pending Voucher Detail record (`pvod_det`) was not created. As a result, Voucher Register (28.3.1) did not print the receipt history when Print Purchase Receipts was Yes.

Service Pack 12 addresses these issues. Additionally, it includes the new utility Pending Voucher Eff Date, which adds the required effective dates in environments where Create Pending Voucher Detail has already been run.

Whether you need to run the new utility depends on what has happened since you installed Service Pack 10:

- If you did *not* run Create Pending Voucher Detail, install Service Pack 12, then run that utility. Because the service pack fixes the effective date issue with Create Pending Voucher Detail, you do not need to use Pending Voucher Eff Date.
- If you *did* run Create Pending Voucher Detail and did *not* download and install a special patch bundle that included ECO P4MZ, first upgrade to Service Pack 12, then run Pending Voucher Eff Date.
- If you have already installed that patch bundle and have run Pending Voucher Eff Date, you do not need to take any other actions to correct the pending voucher issues.

Enterprise Material Transfer

A new Export Hold Sales Status field has been added to the Enterprise Material Transfer (EMT) frame of Sales Order Control (7.1.24).

The new field adds flexibility to the way EDI ECommerce PO export functions send EMT purchase orders to the secondary business unit (SBU) supplier based on the value of Send Credit Held SO in Supplier Maintenance (2.3.1).

When selecting EMT orders for export, the system now first looks at the Export Hold Sales Status field. Subsequent actions depend on its value.

- Blank (the default): The system exports all orders to SBUs with Supplier Maintenance records that have Send Credit Held SO set to Yes, regardless of action status.
- HD: When Send Credit Held SO is Yes, the system exports orders with an action status of HD or blank. Orders with any other action status are excluded.
- Other non-blank value: When Send Credit Held SO is Yes, the system exports orders with Action Status set to this value or blank. Orders with any other action status are excluded.

Note When the sold-to customer's Customer Maintenance (2.1.1) record has EMT Credit Flow set to Yes, the exported PO includes the Action Status value from the primary sales order.

Previously, EDI ECommerce PO export functions only selected EMT orders when the primary sales order Action Status field was blank (regardless of the setting of Send Credit Held SO) or HD (when Send Credit Held SO was Yes). If Action Status was any other value, the PO was not exported to the SBU.

Service/Support Management

This service pack includes several SSM enhancements.

Contract Revenue Accounts

Invoice Post (7.13.4) has been modified so that it posts deferred or accrued revenue for contracts to the appropriate accounts associated with the service type product line for the individual contract lines. Previously, the system consolidated all deferred or accrued revenue from all contract lines to the account associated with the product line assigned to the contract service type.

To support this change, three new fields—Revenue Account, Revenue Sub-account, and Revenue Cost Center—have been added to Contract Quote Maintenance (11.5.1.1) and Contract Maintenance (11.5.13.1). Default values for the fields depend on the revenue type:

- Cash: The fields default to blank and cannot be updated.
- Deferred or accrued: Based on the level at which accounts are defined, the fields default from the associated revenue account fields in Sales Account Maintenance (1.2.17), Product Line Maintenance (1.2.1), or System/Account Control (36.1). You can update the fields only when Modify Sales Accounts is Yes in Contract Control (11.5.24).

Additionally, a new utility, Update Contract Revenue Account (11.5.13.25.5, `utsarrv.p`), lets you modify line records on existing contracts that have end dates later than the current date to update the additional fields. Invoices can then be posted correctly during the next processing cycle. The utility does not affect existing deferred revenue records.

Contract Billing

Sales Order and Line fields have been added to the contract line detail frame in Billing Date Correction (11.5.18.19).

The new fields expand the functionality available when you need to correct a billing error by reversing an unposted contract invoice in Billing Reversal Maintenance (11.5.18.18).

Previously, Billing Date Correction only let you update the sales order at the contract header level. If necessary, you can now update the sales order and line associated with a contract line in Billing Date Correction before reversing the invoice.

CAR Effective Date

An Effective Date field has been added to Call Activity Recording (11.1.1.13). Use it to record the date when transactions created by the program are effective in the GL. It is included in the frame where you specify the output device for the report generated during inventory processing.

Previously, the system date was always used as the GL effective date.

The new field defaults to the current date. When Verify GL Accounts in Yes in System/Account Control (36.1), the specified date must be in an open GL calendar period.

For example, in some cases the engineer may perform the labor on a call several days before the record is updated in Call Activity Recording. The new field lets you make the labor transactions affect the GL on the same day the labor was performed.

EDI ECommerce

Naming inconsistencies in QAD-provided records defined in Trading Partner Parameter Maintenance (35.13.10) have led to processing issues with some types of documents.

After installing the service pack, use a new utility, Trading Partner Para Desc Update (36.13.25.2, `utrplpd.p`), to correct these inconsistencies.

Important Program code throughout the EDI ECommerce module is updated by the service pack to use the corrected values. If you install this service pack, you must run the utility.

When you run this program, the system updates all character and integer parameter records with the following abbreviations. This both makes the naming consistent and allows more room for text strings in the 25-character field:

- Document is changed to Doc.
- Change is changed to Chg.

- Ver is changed to Vers.

Service Pack 11 Release Notes

Service Pack 11 for MFG/PRO eB2 includes all ECOs closed between October 4, 2005 and March 6, 2006. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

New Accounts Receivable Utility

A new utility, Update AR Records for P4Z2 (27.25.3, `utarrnd.p`), updates AR master table (`ar_mstr`) records to address incorrect discrepancies between the `ar_base_amt` and `ar_base_applied` fields. Previously, an exchange rate rounding issue created incorrect values in these fields.

Accounts Payable Reports

The following enhancements affect AP aging reports:

- A new Display Open Vouchers with Amount = 0 field has been added to AP Aging by Voucher Date Report (28.17.4) and AP Aging by Due Date Report (28.17.5). The field controls whether the report output displays open zero-amount vouchers.

Previously, open zero-amount vouchers were always displayed.

- A new List Type field has been added to the selection criteria in those same reports, as well as to AP Aging as of Effective Date (28.17.6).

Note This field was already present in the equivalent aging reports on the Accounts Receivable (27) menu.

Intersite Requests

You can no longer leave the due date blank in the following two programs, since this created records that were not recognized by MRP:

- Intersite Request Maintenance (12.15.1)
- Intersite Demand Confirmation (12.17.1)

To ensure that the correct relationship is maintained between the shipping dates and due dates, a new field has been added to Intersite Demand Confirmation. The new header Due Date field lets you enter the date the items are due at the receiving site. The system calculates the default ship date based on:

- The due date from the request header
- The load, transit, and unload lead times defined in Transportation Network Maintenance (12.5.5) for the transportation mode specified on the detail portion of the request

With this change, Intersite Demand Confirmation now manages the relationships among dates in the same way as Intersite Request Maintenance.

In addition, two new messages have been added that display when due dates or shipping dates are changed on existing records and the new dates are not the same as the dates the system calculates based on the setup associated with the transportation ID. Normally, the lead times defined in Transportation Network Maintenance provide the correct defaults.

Purchasing

The Exclude Unconfirmed Vouchers field in Unvouchered Receipts as of Date (5.13.10) has been relabeled Unconfirmed Vouchered Receipts to more accurately reflect the field's purpose.

Enter Yes (the default) to include in the open quantity any amounts from receipts that have been matched with a supplier invoice but are unconfirmed. These amounts do not update the GL so they are typically considered still open and included in the report.

Enter No to exclude receipts that have been matched with an invoice but are not confirmed.

Product Structure, Service Structure, Formula/Process

When you copy a product structure, a service structure, or a formula to create a new one, the system copies components from the source structure and adds them to the destination structure. When the destination already has existing components, the system displays a warning and prompts you to continue.

If you choose to continue, a new field, Combine Common Components, determines how the system manages updates when the same item exists in both the source and destination structures:

No: The system overwrites destination component quantities with component quantities defined in the source.

Yes: The system combines component quantities being copied from the source structure with the component quantities of the destination structure.

Previously, the system always overwrote the target components.

The option has been added to the following programs:

- Product Structure Copy (13.9)
- Service Structure Copy (11.19.9)
- Formula Copy (15.8)

1099-MISC Reporting

The system now validates additional IRS miscellaneous income tax form boxes in the following programs:

- 1099-MISC Report (28.20.1)
- 1099-MISC Form Print (28.20.2)
- 1099-MISC Magnetic Media Report (28.20.3)

Boxes 15a and 15b correctly display in these reports.

Advanced Repetitive

A new Order Multiple field has been added to Repetitive Picklist Calculation (18.22.3.1) to let users choose how the system calculates the quantity to transfer on the picklist.

Yes (default): The system determines the number of items to be transferred (quantity required) and then rounds that number up based on the order multiple defined in Item-Site Planning Maintenance (1.4.17), Item Planning Maintenance (1.4.7), or Item Master Maintenance (1.4.1).

No: The exact quantity required prints on the picklist and no rounding is applied by the system. Set this field to No when you are using lean manufacturing techniques and do not want any extra items on the shop floor.

New Inventory Report

A new Device History Record Report (3.6.20) has been added to the Inventory Reports menu. This report displays the production history of a finished device—if it is a serialized end item—or an end lot of finished devices. Multiple levels of component history can be included.

The output of this report can be used by medical device manufacturers to help satisfy the reporting requirements outlined in Food and Drug Administration 21 CFR Part 820.

EDI ECommerce

This service pack includes additional functionality to support exchange of EDI documents related to warehouse distribution.

- Use Warehouse Shipment Advice (35.4.18) to inform the receiving warehouse that products have been shipped from another warehouse. This document type supports such EDI standards as ANSI X12 943, Warehouse Stock Transfer/Shipment Advice.

To use this gateway, three additional parameters must be defined in Trading Partner Parameter Maintenance (35.13.10):

- Logical parameter: Send Warehouse Shipment, set to Yes

- Character parameter: Warehouse Shipment Doc Name, set to the name of the associated MFG/PRO document definition
- Integer parameter: Warehouse Shipment Doc Ver, set to the version number of the associated MFG/PRO document definition
- Two new fields have been added to Packing List Export (35.4.15) to let you refine the selection of documents to be exported.
 - Export Only if Lines Picked: Set this to Yes to limit the selection to lists for order lines with a quantity picked greater than zero.
 - Export Only if Shipper Exists: Set this to Yes to limit the selection to lists for order lines with a quantity shipped greater than zero.

Leave the fields set to No (the default) to have the program work the same way it did before the new fields were added; lines matching the selection criteria are selected regardless of picking or shipper status.

Service Pack 10 Release Notes

Service Pack 10 for MFG/PRO eB2 includes all ECOs closed between March 29, 2005 and October 3, 2005. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Lean Manufacturing Updates to Kanban Module

This service pack includes additional Lean Manufacturing enhancements to the Kanban module. You can now:

- From Kanban Dispatch List Processing (17.22.18.1), export dispatch lists to loop suppliers as electronic data interchange (EDI) kanban shipping schedules using EDI ECommerce.

Note The new export gateway that supports this feature uses the same standards-neutral format (SNF) and the same exchange definition as standard 830 and 862 schedules. Although a new implementation definition is required, you can use the current Schedule exchange definition for exporting dispatch lists.

- Automatically change the status of cards to Shipped when Document Import (35.1) loads EDI advance ship notices (ASNs) from loop suppliers. The system identifies eligible loops and calculates the number of cards to be updated based on ASN information.
- Use several additional programs on the new Kanban Dispatch Menu (17.22.18) to more efficiently manage cards placed on dispatch lists.
 - Kanban Dispatch Maintenance (17.22.18.2) lets you select an individual card based on the dispatch ID and kanban ID. You can then view dispatch-related data, as well as update some associated information as needed.
 - Three additional view and reporting programs let you see information about dispatched cards.

Note Kanban Dispatch List Processing has been moved to 17.22.18.1 on the new menu. It was previously at menu location 17.22.19.13.

- Automatically update card dispatch status when you record ship or fill/receive transactions, receive a PO shipper, or import an ASN for a card that has been placed on a dispatch list.
- Delete and archive card dispatch data when you run Transaction Delete/Archive (17.22.19.23).
- Consume a batch of cards using two new menu programs:
 - Use Kanban Consumption Import (17.22.19.20) to import comma-delimited records that identify a supplier, item, and quantity to consume. The system identifies eligible loops, calculates the number of cards required, and automatically updates cards to be consumed.

- Use Supplier Kanban Consumption (17.22.19.21) to identify eligible loops based on selection criteria. Then specify the number of cards to be consumed in each loop.
- Automatically change the status of cards to Full when confirming the supplier's shipping document using PO Shipper Receipt (5.13.20). The system identifies eligible loops and calculates the number of cards needed based on information in the shipper.
- Identify suppliers that can have automatic card updates made during ASN import or PO shipper receipt based on a new Kanban Supplier field in Supplier Maintenance (2.3.1).
- For programs that automatically select cards for status updates, use two new fields in Kanban Master Maintenance (17.22.4)—Qty Mismatch Method and Rounding Threshold—to define the rules the system uses when the quantity specified is not a multiple of the kanban quantity.
- Create new loops based on comma-delimited records imported using Kanban Workbench Import (17.22.23.14).
- Perform card reconciliation functions on new or updated loops while importing records using Kanban Workbench Import. Optionally, print new or activated cards from the same program.
- In the view programs on the Kanban Transactions Menu (17.22.19), drill down to the operation-history level when related records are associated with a kanban transaction.
- Set up optional, reference-only label definitions using Kanban Label Definition Maintenance (17.22.16.18) to specify the appearance and content of labels placed on kanban containers. Associate a label with a kanban loop in the new Kanban Label field in Kanban Master Maintenance.

For information on setting up and using the added features, see *User Guide: Kanban* (item 78-0593F), which includes an updated version of the Kanban chapter from MFG/PRO eB2 *User Guide Volume 3: Manufacturing*.

This new product information is available in Portable Document Format (PDF) on the latest Supplemental Documents on CD, as well as on the QAD ServiceLinQ Web site, where it is included with the user guide set for MFG/PRO eB2.

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

Credit Card Processing

The Storefront module has been renamed Credit Card to more accurately reflect the way it is used. Three menu items in the Sales Orders/Invoices module have been assigned new descriptions. The following table shows the changes.

Menu	Current Description	Previous Description
7.21	Credit Card Menu	Storefront Integration Menu

Menu	Current Description	Previous Description
7.21.3	Credit Card Sales Order Browse	Storefront Sales Order Browse
7.21.24	Credit Card Control	Storefront Control

Accounts Receivable

A new Unassigned Unapplied Amount field has been added to Payment Register (27.6.6). You can use it to control whether the report output is limited to the current open amount of an unapplied payment or reflects the entire historical amount.

Valid values are:

- **Current (the default):** The open unapplied amount for an AR unapplied payment displays in the Unassigned Amount column. This is the format of the Payment Register report before the new option was added.
- **Historical:** The full historical unapplied payment amount displays in Unassigned Amount.

The Historical option supports a business model that requires a static document to serve as an historical record of cash application.

Sales and Use Tax Interface

A new Use Primary/PO Header Tax Entity field has been added to Tax Interface Control (36.5.3.24).

The new field lets you control the entity sent by purchasing functions to the Sales and Use Tax Interface. You can select either the default primary entity specified in System/Account Control (36.1) or the entity associated with the individual PO header site.

The new field supports environments in which MFG/PRO includes more than one entity and taxes are reported by entity. Setting this field to PO Header allows for better control and wider functionality of the Quantum Vertex TDM (Tax Decision Maker) database and associated tax override rates and exemptions.

To continue using the current functionality, leave the new field set to the default value, Primary.

Reserved Locations

A new Detail Allocate field has been added to the reserved locations frame in Location Maintenance (1.1.18). Use the field to specify whether the system automatically generates detail allocations on sales orders for the specified customer from the reserved location.

Yes (default): During Sales Order Maintenance (7.1.1), the system forces detailed allocation of the reserved inventory. This ensures that quantity-to-allocate calculations are correct for the same item in non-reserved locations.

No: The system does not automatically detail allocate.

It is recommended that you leave this field set to Yes. During general allocation, MFG/PRO does not update location detail records for locations with inventory status codes that have Available set to No, which is the typical setting for a reserved location. In these cases, entering subsequent orders for the same item in non-reserved locations can display an incorrect quantity to allocate. Setting Detail Allocate to Yes avoids this situation.

General Ledger

A new Offset Account for GL Import field has been added to General Ledger Control (25.24).

Important You must enter a valid account number in the new field before you can run Transaction Import (25.19.15).

The new field supports a software update that lets Transaction Import correctly process a file containing more than 9999 lines by creating multiple GL references. Previously, all lines were imported into a single GL reference, even though the maximum field size for reference lines is 9999. This created potential problems in functions such as Standard Transaction Maintenance (25.13.1), since that program cannot retrieve line numbers greater than 9999.

Now, when you import a large file, the system processes the first 9998 lines for a GL reference, then uses line 9999 to record the accumulated value of those lines. It creates a transaction detail record for that amount against the specified offset account. The system next creates a new GL reference, continuing with more lines—and more references, if required—until it reaches the end of the import file. (The last line in the last reference—even if it is not line 9999—includes an offset transaction for the total amount represented by that GL reference.) The system uses the offset transactions to keep the GL reference in balance so that it posts correctly.

Supplier Consignment Inventory

A number of modifications have been made to the Supplier Consignment Inventory module to address issues related to financial transactions generated during inventory receipts, usages, and vouchering:

- You can now specify if you want to track PO costs at the time of receipt or usage.
- The system now tracks cost information at a more detailed level, ensuring that you can generate accurate reports and reconcile costs in the general ledger.
- Tax calculation for consigned inventory has been simplified.

- A new utility has been provided to create pending voucher detail records and update cost point data.

PO Cost Point

A new PO Cost Point field in Supplier Consignment Control (5.18.24) lets you choose whether to recalculate purchase order cost at time of usage or retain the cost from the time of physical receipt. This same field can be set for a specific supplier or supplier/item combination in Supplier/Item Controls Maintenance (5.18.1).

Tracking Cost Details

The system now maintains additional PO cost details required for accurate reporting. These details are created during PO receipt. When the PO Cost Point field is set to usage, the system records changes in item/PO unit price and changes in exchange rates as inventory is used.

When usage details with different costs or exchange rates exist during vouchering, a message displays letting you choose to update these records manually. When you respond No to this prompt, MFG/PRO automatically processes the details on a first-in first-out basis. When you respond Yes, a new frame displays all the detailed records and you can select the ones you want to voucher. Multiple pending vouchers associated with a single receiver are correctly processed.

Note When you use background processes such as ERS Processor (28.10.13) or load supplier invoices using ECommerce Document Import (35.1), the system always uses the first-in first-out method to update the detailed records.

When the vouchering cycle is complete, additional cost data is included during archive/delete in the following programs:

- Uninvoiced Receipt Delete/Archive (28.22)
- Closed PO Receipt Delete/Archive (5.22)

Reporting and Reconciling Cost Details

Unvouchered Receipts as of Date (5.13.10) and Purchase Receipt Report (5.13.5) now correctly calculate and display the purchase price variance (PPV) when the exchange rate, GL cost, or PO price have changed between the time of physical receipt and the time of usage of consigned inventory (PO Cost Point is set to Usage). It also now displays cost details and accurately calculates and displays quantities and report totals.

Other reports, browses, and inquiries that help users reconcile PPV on receipts and supplier-consigned transactions with amounts booked to the general ledger have been updated to use the new cost details and calculate correct totals. These include:

- Receipt Transactions Report (5.9.14)
- Voucher/Standard Cost Variance Report (28.17.1)
- Voucher/PO Cost Variance Report (28.17.2)
- Purchase Receipt Inquiry (5.13.3) and PO Receipt Cost Browse (5.13.3)

In addition, the calculation that is performed by various purchasing reports that include the option Use Total Standard Cost has been normalized so that they all display the same results.

Tax Calculation

For supplier-consigned orders (discrete and scheduled), tax is no longer accrued at physical receipt of consigned inventory. The system ignores the Accrue Tax at Receipt setting in Tax Rate Maintenance (2.13.13.1). Tax on supplier-consigned orders is now calculated only at time of usage.

New Utility Program

To support the enhancements to Supplier Consignment, you must run the new utility Create Pending Voucher Detail (5.25.6, `uxcrpvod.p`) before processing any supplier consignment transactions. This is required to properly voucher and report consigned material.

This utility:

- Creates a single pending voucher detail record for each existing pending voucher master record in the database.
- Moves exchange rate data out of the pending voucher master record into the pending voucher detail record.
- Updates the PO consignment cost point on all PO headers marked as consigned or having attached consigned PO lines.

Customer Consignment Inventory

Customer Consignment usage functions now perform price-list lookups at the time of usage for scheduled orders in the following programs:

- Cycle Count Results Entry (3.14)
- Aging Inventory Update (7.18.10)
- Aging Inventory Batch Update (7.18.11)
- Inventory Usage Create (7.18.13)
- Authorization Usage Create (7.18.14)
- Sequenced Usage Create (7.18.15)
- Shipper Usage Create (7.18.19)
- Usage Create Undo (7.18.22)

This function is only invoked when the underlying sales order is from a customer consigned scheduled order with a price list.

Adding this capability makes Customer Consignment more consistent with Supplier Consignment. However, an SO Price Point field (comparable to the PO Cost Point field) is not being introduced.

Previously, customer consignment usage functions ignored the price list information for scheduled orders; invoices were created with the price at shipment rather than the price at usage.

Service/Support Management

A new Next Date field in Call Queue Manager (11.1.6) lets you specify the first next activity date the system should use for finding calls to display.

This field is important when calls are being displayed by next activity date and end user, based on setting Queue Manager to 0 in Call Management Control (11.1.24).

The default is the current system date. If you have calls that are overdue, you should change the default to a date before the oldest next activity date to see all the calls. You can clear the date field to see all calls; however, this may impact performance since the system must sort through all calls in the database.

EDI ECommerce

This service pack includes additional functionality in the following areas.

Warehouse Distribution

A new gateway program, DO Packing List Export (35.4.16), lets you export an EDI document containing shipping instructions in the form of a packing list generated based on a distribution order. This is designed to request a warehouse to transfer products to another warehouse. It supports such EDI standards as ANSI X12 940, Warehouse Shipping Order.

An existing gateway, Packing List Export (35.4.15), performs a similar function for transferring products from a warehouse based on the customer's sales order. It exports a request to ship goods from a warehouse to the customer.

To use this gateway, three additional parameters must be defined in Trading Partner Parameter Maintenance (35.13.10):

- Logical parameter: Send DO Packing List, set to Yes
- Character parameter: DO Packing List Doc Name, set to the name of the associated MFG/PRO document definition
- Integer parameter: DO Packing List Doc Ver, set to the version number of the associated MFG/PRO document definition

Additional Transmission Group Cross-Reference

In Trading Partner Maintenance (35.13.7), you can now override the document-level transmission group specified in the Trading Partner Document Records frame for a specific trading partner/site reference.

A new T/O (transmission group override) field has been added to the TP Location Cross-Reference frame. When that field is Yes, the system displays an additional Trns Grp field. Enter a valid transmission group defined in Transmission Group Maintenance (35.13.13). During document processing, the system uses this transmission group record for this specific address-cross reference instead of the group defined for the top-level trading partner.

You can use this feature to specify different HTTP parameters for posting XML documents for specific trading partner locations; this is useful, for example, when you are using QXtend to communicate documents created by EDI ECommerce.

Service Pack 9 Release Notes

Service Pack 9 for MFG/PRO eB2 includes all ECOs closed between November 2, 2004 and March 28, 2005. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Lean Manufacturing Updates to Kanban Module

This service pack includes additional Lean Manufacturing enhancements to the Kanban module:

- You can now use the Yield Percent field in Kanban Process Maintenance (17.22.3) to specify the yield the system uses when calculating EPEI and average demand. Previously this was a reference field. You also can update the loop value using Kanban Workbench (17.22.23.1).
- The system now calculates the date and time consumed cards should be filled and stores this information in card detail records. The due date and time display in various maintenance and report programs. You can overwrite the calculated values in Kanban Card Maintenance (17.22.16.1) or Kanban Multi-Card Maintenance (17.22.16.2).
- You can use the External FIFO Time field in Kanban Master Maintenance (17.22.4) to specify time needed to complete such activities as subcontract operations associated with FIFO processes. You also can update the loop value using Kanban Workbench.
- An Order Quantity Multiple field has been added to Kanban Master Maintenance. When you enter a value, Kanban Workbench adjusts the order quantity during loop sizing so that the number of cards is always a multiple of the specified value. You also can update the loop value using Kanban Workbench.
- When you use the Decrease at Consume feature—added by Service Pack 8—to automatically reconcile loops and inactivate unneeded cards when they are recorded, you can now control whether the system displays a confirmation prompt before inactivating the card. An additional Yes Conf value has been added to support this enhancement.

The service pack includes the conversion utility Get Decrease At Cons from SP8 (17.22.25.3, `utkbcons.p`) to update existing loop records currently set to Yes. The utility converts the existing logical Yes value to language detail—either Yes or Yes Conf—based on what you enter when you run the program. It has no effect when Decrease at Consume is set to No.

Supplier Consignment Inventory

This service pack includes updates to AP pending vouchers to facilitate vouchering of supplier invoices for consigned inventory.

Voucher Maintenance (28.1) now supports processing multiple consignment pending vouchers. Previously, when multiple pending vouchers were associated with a single receiver, the first pending voucher listed was always being updated even when it had already been fully vouchered.

Each pending voucher is now processed independently of other vouchers for the same receiver and line.

This service pack updates the following Voucher Maintenance frames:

- Receiver Matching Detail frame
- Receiver Matching Maintenance frame
- Auto-Select of Pending Vouchers
- Open Receivers frame

The Receiver Matching Detail frames now display multiple pending vouchers in the scrolling window when using Auto Select. Previously, selected records did not display.

When manually selecting pending vouchers to process from the Open Receivers frame, the system creates a separate history record for each voucher. The Receiver Matching Maintenance frame now prompts you to select which pending voucher to update instead of returning an error message.

Additionally, when you enter a quantity greater than that shown on the selected pending voucher, the system displays a warning but allows you to continue vouchering. Previously, an error message prevented vouchering.

The effect of these changes extends to Unvouchered Receipts as of Date Report (5.13.10) and Purchase Receipt Report (5.13.5). Both reports now:

- Report multiple pending vouchers for a single receiver.
- Use the same calculation for Total Standard Cost when Use Total Std Cost field is No.
- Show matching outputs when Non-Vouchered Only field is Yes.

Salesperson Reports

A new Based on Header/Detail field has been added to the following programs to improve salesperson reporting related to customer scheduled orders:

- Salesperson Commission Report (2.15.13)
- Salesperson Payments Report (2.15.16)

Valid values for the new field are:

Header (the default): The report includes only the salesperson identified on the scheduled order header—even if individual lines list a different salesperson. This is the same as the current functionality.

Detail: The program calculates line-by-line information to report on individual salesperson data.

Available to Promise (ATP)

ATP Enforcement has been enhanced with the addition of a Family ATP Calculation field to Sales Order Control (7.1.24).

Enter one of the following values to control which family items and component items should be considered when determining family item ATP. Leave the field set to the default 1 to have the system behave as it did before the field was added.

0. Include all component item orders and exclude all family item orders.
1. Include all component item orders and include all family item orders.
2. Include all component item orders and only family item orders outside the item's time fence.
3. Include only component item orders inside the item's time fence and all family item orders.
4. Include only component item orders inside the item's time fence and only family item orders outside the item's time fence.

Before the new options were added, family ATP calculations were based on the total availability in aggregate rather than the mix of orders already received. This is especially appropriate for products that use a high degree of common components and a limited number of unique or difficult-to-manufacture or assemble items.

Based on the setting of the new field, ATP calculations can support scenarios that feature:

- Lower commonality of components, as well as some unique or difficult-to-make items
- A first-level component that is a unique option to a configured product with several unique components

The new settings give planners a way of determining option availability inside a time fence, while aggregating availability outside that same fence. They can enforce some schedule stability in the near term while allowing themselves to enter orders in the longer term—where they can more easily adjust the schedule.

Inventory Control

A new field, Recalculate Deleted Locations, has been added to Inventory Valuation as of by Loc (3.6.16).

Set the field to Yes to have the system consider locations that have had detail records deleted between the effective date and the date the report is run. These can be records for temporary locations—automatically deleted when the balance falls to zero—or locations that were deleted manually.

When the field is set to the default No, the system does not re-create deleted locations and calculate inventory value for them.

Financials

Accounts Payable

To support compliance with regulatory controls, a new Allow Modification to Supplier field has been added to Accounts Payable Control (28.24).

When this field is No, you cannot update the supplier using Voucher Maintenance on either of the following:

- A confirmed voucher with or without a purchase order attached
- An unconfirmed voucher with a purchase order attached

Previously, the system displayed a warning message if you changed the supplier, but did not prevent you from updating the voucher. To continue using this functionality, leave Allow Modification to Supplier set to Yes (the default).

AR Self-Billing

When you use AR Self-Billing, the system now prevents invoices from posting in Invoice Post (7.13.4) unless Integrate with AR is set to Yes in Sales Order Control (7.1.24). Additionally, Pre-Shipper/Shipper Auto Confirm (7.9.7) and Shipper Unconfirm (7.9.21) no longer confirm self-bill invoices when the Sales Order Control field is No. Instead, the programs display an MFG/PRO error message.

Previously, the system displayed a Progress error but still posted the invoices.

Belgian VAT Registration Code

MFG/PRO has been updated to allow 10-digit VAT registration codes for Belgium (country code BE). Prior to January 1, 2005, those codes were specified as 9 digits. Now they can be either 9 or 10.

Global Tax Management

A new Display Reference Total Using Line Amount field has been added to Tax Detail by Transaction Report (2.13.15.3).

Set this field to Yes to assure that tax amounts display correctly when Display Taxable/Non-Taxable Total Amounts is Yes and multiple tax types apply to the same order line.

Previously, this situation could lead to incorrect calculations because of the way the system accumulates taxable and non-taxable amounts from tax detail records.

Service Support Management

RTS Pricing

The SSM return to supplier (RTS) functionality supports only manual pricing, even though RTS Maintenance (11.7.3.1) previously included Price Table and Discount Table fields.

To avoid confusion, those two fields have been removed from RTS Maintenance. Additionally, the label for PO/RTS/Sched/RMA Rcpt Price Menu (1.10.2) has been changed to PO/Sched/RMA Rcpt Price Menu.

Call Quotes

You can now control whether the system copies item usage records when you create calls using Call Quote Release to Recording (11.1.1.11).

Set the new Copy Item Usage field to the default No to exclude usage data from the call. Change the field to Yes to copy item usage records.

Previously, the system always copied usage data. In cases where a material order (MO) is used to obtain repair parts for a call, this could result in the same material usage being recorded twice: once when the quote was copied and again in Call Activity Recording (11.1.1.13).

Project Realization Management

This service pack includes two enhancements to PRM.

Loading Project Structure

When adding line items to a project in Project Maintenance (10.1.1), you can now specify whether you want to explode the complete product structure or only add the components of the parent item when the parent includes subassemblies.

Previously, the system automatically loaded the entire bill of material (BOM) into the project structure when you responded Yes to the following prompt:

```
Load BOM into project structure?
```

Now, when the parent item includes subassemblies, a second prompt displays:

```
Load all structures?
```

If you respond Yes to the second prompt, the system explodes the entire BOM and adds it to the project structure, just as before. However, if you respond No, only the components of the parent item are added.

For example, this new feature supports a scenario where component items are sometimes built at a different site and shipped to the project site as part of inventory, and other times the component items are assembled as part of the project.

Specifying Effective Date

The system now prompts you for a GL effective date when you record project information in Project Activity Recording (10.5.13) or Project Labor Recording (10.5.14).

Previously, the system used the current date.

The new Effective Date field defaults to the current date. When Verify GL Accounts is Yes in System/Account Control (36.1), the specified date must be in an open GL calendar period.

EDI ECommerce

This service pack includes the following enhancements to EDI ECommerce.

Supplier Shipping Schedules Export

A new Include Only EDI Schedules field has been added to Supplier Shipping Schedules (35.4.8). It provides more control over the way supplier schedules are selected for export based on the setting of EDI Schedules in Scheduled Order Maintenance (5.5.1.13).

- No (the default): Supplier Shipping Schedules disregards the value of EDI Schedules when selecting schedules for export. If the system cannot find valid associated settings in Trading Partner Parameter Maint (35.13.10), errors result. This is the functionality available before the new field was added.
- Yes: The system limits the selection to schedules that have EDI Schedules set to Yes in Scheduled Order Maintenance.

By setting the field to Yes, you can now use EDI Schedules to control which schedules you want to export. This prevents you from having to review error messages associated with schedules that should not be exported.

Transmission Group Control Number

A new Reset Control Number field has been added to Transmission Group Maintenance (35.13.13).

The control number is used to name files that are exported to the transmission group. Previously, you could not reset the number. When the system-generated number became too large for the database field, a Progress error displayed.

The control number is now limited to 999999. After that, the system prompts you to reset it to 0 (zero) using Reset Control Number.

Note When you reset the number, be sure to remove existing files with the specified destination prefix from the destination directory to avoid overwriting them.

Service Pack 8 Release Notes

Service Pack 8 for MFG/PRO eB2 includes all ECOs closed between June 2, 2004, and November 1, 2004. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Lean Manufacturing Updates to Kanban Module

This service pack includes additional Lean Manufacturing enhancements to the Kanban module:

- Use a new menu program, Kanban Card Management (17.22.16.16), to manage multiple loops by analyzing and optionally implementing system-generated recommendations to create, activate, close, or inactivate cards to bring the loops back into conformance with optimum loop sizing. This multifunction program also lets you add or remove a fixed number of cards from multiple loops, as well as delete inactive cards. You can print new and activated cards before leaving the program.
- Use Kanban Workbench (17.22.23.1) or Supermarket Workbench (17.22.23.2) to reconcile the actual number of active replenishment cards in a loop with the system-recommended number of cards. When reconciling cards, the system creates, activates, or inactivates cards as needed to rebalance the loop.
- For two-card loops, control how replenishment card reconciliation affects the number of move cards.
- When card reconciliation creates or activates cards, print them directly from the workbench.
- Use Kanban Control (17.22.24) settings to select the logic the system uses when phasing in new cards or phasing out unneeded ones.
- Instead of having the reconciliation function inactivate unneeded cards, prompt the user to inactivate them next time they are recorded in Kanban Consume/Post (17.22.19.1).
- Use regeneration enforcement to display a warning or error message when a card is recorded if the system determines that key information on the card—kanban quantity, BOM, routing, and so on—no longer matches the loop master record.
- Control your kanban process flow by enforcing the sequence in which cards must be recorded. For example, you can specify that users cannot record a card in Kanban Acknowledge unless it is first recorded in Kanban Consume/Post. You can specify different enforcement settings for individual loops or have loops use the system-level settings defined in Kanban Control.
- When using Kanban Dispatch List Processing (17.22.19.13), select cards for the list based on card status. Additionally, generate a list of cards that have previously been dispatched.

For information on setting up and using the added features, see *User Guide: Kanban* (item 78-0593D), which includes an updated version of the Kanban chapter from MFG/PRO eB2 *User Guide Volume 3: Manufacturing*. This new product information is available in Portable Document Format (PDF) on the latest Supplemental Documents on CD (item 10-1300E), as well as on the QAD Web site, where it is included with the user guide set for MFG/PRO eB2.

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

Operating System Security

The Enforce OS User ID field has been added to Security Control (36.3.24) to let system administrators control user access to MFG/PRO character and Windows environments directly from the operating-system level. Leave the field set to No (the default) to continue using existing log-in procedures.

Important Regardless of this setting, QAD Desktop users must continue to enter a valid user ID and, if required, a valid password to access the system.

When the new field is Yes, the default user ID displayed in the log-in screen is the same ID used by the operating system, and the user cannot change it.

Note This must still be a valid MFG/PRO user ID defined in User Maintenance (36.3.18).

Subsequent processing depends on whether a password is specified in User Maintenance or User Password Maintenance (36.3.20):

- If no password is specified in the MFG/PRO user record, log-in proceeds automatically, subject to proper licensing.
- If the user record includes a password, the system displays a password prompt.

This new feature essentially allows customers to bypass MFG/PRO log-in security completely and rely on operating-system security.

Important If you enable this feature and reset MFG/PRO user passwords to blank, you should use caution if Enforce OS User ID is ever changed to No. If you do so without reentering passwords in user records, anyone can gain access to MFG/PRO by entering just a user ID. When you change the field from Yes to No, the system displays a message to warn you of a potential security compromise.

Shipper Gateway

Shipper Gateway (7.9.22) has been modified to optionally add multiple containers to the shipper during import when the quantity specified for a container line is not equal to 1.

Set the new Load Multiple Containers to Yes to enable this feature. When the field is No, the system adds a single container regardless of the quantity.

Previously, the program added only one container in all cases.

Supplier Scheduled Orders

Scheduled Order Maintenance (5.5.1.13) now lets you specify the revision level associated with an order line. The new Revision field defaults from Item Master Maintenance (1.4.1).

Revision is also included in the output produced by Schedule Print (5.5.3.8) and Schedule Print in Fax Format (5.5.3.9).

Previously, you could associate a revision level with discrete purchase orders in Purchase Order Maintenance (5.7), but not with scheduled orders.

Intrastat

You can now enter the net weight and unit of measure for an Intrastat memo item in the Intrastat data frame in the following programs:

- Order Intrastat Data Maintenance (2.22.11)
- Build PO from Requisitions (5.2.18)
- Purchase Order Maintenance (5.7)
- Sales Order Maintenance (7.1.1)
- Pending Invoice Maintenance (7.13.1)

Note You cannot update these fields for inventory items.

The system uses this information in weight calculations for Intrastat history records.

Financials

Zero-Amount Vouchers

Voucher Maintenance (28.1) now prompts you to keep open a zero-amount voucher with no distribution lines when it references a daybook that has Allow Discarding set to No in Daybook Maintenance (25.8.1). When you respond Yes, the voucher is available for future use.

Previously, the system did not allow you to reaccess a voucher created under those circumstances.

AR Balances

A new utility, Adjust AR Invoices (27.25.2, `utarinvc.p`), updates AR master table (`ar_mstr`) transaction and base total amounts to equal the sum of the amounts in the AR detail table (`ard_det`). Previously, some invoice-related programs were incorrectly calculating these amounts.

Important You should run Adjust Customer Balances (36.25.5, `utcsbal.p`) after running the new utility to update the customer balance (`cm_balance`) in the customer master with the correct amounts.

You can run the utility multiple times. It updates only records that are out of balance.

Product Change Control (PCC)

You can now include five additional routing-related fields in a product change request (PCR) or product change order (PCO):

- WIP Item
- Purchase Order
- Line
- Move to Next Operation
- Auto Labor Report

These fields correspond to those in the second frame of Routing Maintenance (14.13.1) and Routing Maintenance–Rate Based (14.13.2). You can update them when you choose the Routing Data Maintenance function in PCR Maintenance (1.9.2.1) or PCO Maintenance (1.9.2.13).

Service/Support Management

This service pack includes two additions to the deferred revenue contracts functionality in SSM.

New Utility

A new utility program, Set Contract Revenue to Deferred (11.25.27, `utsarev.p`), lets customers who have upgraded from an earlier release to MFG/PRO eB2 take advantage of the deferred revenue enhancements added by that release.

This utility checks for existing cash contracts that have the following settings in Contract Maintenance (11.5.13.1):

- Revenue Type is C.
- Bill Arrears is No.
- End Date is later than the current date.

When you set Update to Yes, the utility makes the following changes to the selected contracts:

- Sets Revenue Type to D.
- Sets the contract deferred revenue account.
- Resets the contract line sales and discount accounts.

Important This utility does not create the required deferred records for the current billing cycle. You must recognize revenue manually for this cycle. After you run this utility, revenue is automatically recognized for future billing cycles when you run Revenue Recognition (11.5.18.21).

Enhanced Access Control

A site range has been added to the selection criteria in Revenue Recognition. This lets you use site security to control which users are allowed to recognize revenue for contracts associated with a given site.

Previously, you could not use site security with this program.

EDI ECommerce Product Transfer Import Gateway

This service pack includes a new inbound gateway to support a scenario in which your customer is a distributor who has a product transfer/resale relationship with their own end customer. This new functionality is particularly useful for MFG/PRO users—especially in the food and beverage industries—who sell products to military distributors that in turn send them to military posts and require the supplier to bill each post directly for the quantity it receives.

Using the inbound product transfer gateway, you can receive an EDI message (typically in ANSI 867 format, Product Transfer and Resale Report) at the end of a standard sales order cycle with your own customer—the distributor. Importing the product transfer document triggers an additional sales order cycle that lets you create a shipment, as well as optionally confirming it and producing an invoice for the end customer based on the quantity they received. Optionally, this process can also start another sales order cycle for a negative quantity so you can issue a credit memo to the distributor.

In effect, this process lets you transfer the financial liability from your direct customer—the distributor—to the end customer. Sales orders created by importing the product transfer/resale documents are not tied to the original sales order used to provide goods to the distributor. This allows flexibility during the distribution process; the distributor can procure a large quantity of an item on one sales order, break the shipment into smaller quantities for multiple end customers, and then send a product transfer document for each. On what began as a single sales order, you can ultimately bill multiple end customers.

Note In addition to the new inbound gateway, you use existing EDI ECommerce processing to manually export the invoices and credit memos that complete the business cycle. Additionally, if you fill orders to your ordering distributor using your own warehouse or distribution center, you can use existing functionality for such activities as exchanging shipping orders and shipping advice documents with the warehouse. These existing capabilities are outside the business cycle introduced by the new gateway.

Gateway Variables

The new functionality is based on an inbound gateway that runs when you import the product transfer document (867) using Document Import (35.1). The new gateway is very similar to the standard sales order gateway. The table below summarizes the gateway variables that control processing for the new functionality.

Note The shipper and invoice-related variables control processing for both the end-user sales order and the distributor sales order, if one is created.

Gateway Variable	Effect When Yes
ed_create_shpr	Automatically generates a shipper for the sales order created when you import the Product Transfer and Resale Report
ed_confirm_shpr	Automatically confirms the shipper
ed_shpnbr_as_invnbr	Sets the invoice number to equal the shipper number
ed_post_invoice	Automatically posts the invoice; for distributor's negative-quantity sales order, this is a credit memo
ed_cr_neg_so	Indicates whether the sales order is for a negative quantity

Business Cycle

The following is a typical business cycle using this type of document:

- 1 Your customer—the distributor—sends you a purchase order (such as ANSI 850, UCS 875, or EDIFACT ORDERS), which you import to generate the primary sales order.
- 2 You complete the sales order cycle, shipping the product and invoicing the distributor.
- 3 The distributor delivers the product to their end customer.
- 4 The distributor sends you the Product Transfer and Resale Report document in EDI format.
- 5 When you import the document, the transformation map creates MFG/PRO repository sequences for both positive and negative (if required) quantities. These in turn become sales orders in MFG/PRO. The system uses the values

of gateway variables to determine whether to create a shipper, confirm it, and post the invoice. For a negative sales order, the invoice becomes a credit memo.

Note Creating the negative sales order first, where applicable, avoids potential issues with inventory availability.

- 6 Regardless of whether this negative order was created, the system uses the existing EDI ECommerce sales order load gateway to create a sales order for the distributor's end customer. Depending on gateway variables, it also creates and confirms a shipper for the specified quantity, as well as creating and optionally posting an invoice based on this end-customer sales order.

Note The import file may include a sales order number (variable `ed_so_no`). The gateway uses that number if it is provided. Otherwise, a new number is generated based on Sales Order Control settings. Optionally, you can consider creating a transformation function that lets you distinguish transfer-related sales orders from other orders; for example, by assigning a different prefix.

- 7 After the automatic or manual shipper/invoice process is completed, you use Invoice Export (35.4.3) to export the invoice to the end customer and the credit memo to your own customer.

Service Pack 7 Release Notes

Service Pack 7 for MFG/PRO eB2 includes all ECOs closed between April 1, 2004, and June 1, 2004. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Lean Manufacturing Updates to Kanban Module

This service pack includes additional Lean Manufacturing enhancements to the Kanban module.

Using the enhanced Kanban features provided in Service Pack 7, you can:

- Define a kanban loop that is supplied by a process or supermarket in a different site than the destination supermarket. When you record a replenishment card for such a loop using Kanban Fill/Receive (17.22.19.5) and the loop has been set up to impact inventory, the system automatically creates the correct inventory transactions to transfer the items between sites, in addition to debiting and crediting the appropriate GL accounts.

The following changes have been made to support multisite functions:

- You can set Impact Inventory to Yes in Kanban Master Maintenance (17.22.4) for kanban loops even if the source or destination is a WIP supermarket. This allows the system to generate inventory transactions required when the source and destination are not in the same site.
- You can set Comp/Op Transactions to Yes for a kanban loop even when Impact Inventory is No. This field—previously labeled Backflush Comp—determines whether recording a card in Kanban Fill/Receive backflushes components from the bill of material, records labor based on routing information, and, when appropriate, creates purchase receipts for associated subcontract operations.
- Several programs have been updated to let you specify supermarket sites as well as source sites to create, update, and select records.
- Labels have been changed in many programs and reports to clarify the difference between source and supermarket sites.
- Automatically generate a PO receipt transaction against a subcontract PO specified in routing records when you use Kanban Fill/Receive to record a card for a process loop that includes subcontract operations. The system uses the supermarket location type—WIP or inventory—to determine the correct accounts to debit and credit.
- Exercise better control over loop sizing in Kanban Workbench (17.22.23.1) by selecting from three card reporting options in Kanban Master Maintenance.
 - Standard: The kanban is recorded as empty when the first item is used.
 - Add: The kanban is not recorded until the last piece is removed. The system increases the order point by an additional kanban quantity.

- Remove: The system reduces the loop size by decreasing the order point by one card.

Previously, only First and Last reporting options were available.

- Use improved navigation in Kanban Master Maintenance to define loop records. The initial frames have been modified to include only fields that are specific to the source type.

For information on setting up and using the added features, see *User Guide: Kanban* (item 78-0593C), which includes an updated version of the Kanban chapter from MFG/PRO eB2 *User Guide Volume 3: Manufacturing*. This new product information is available in Portable Document Format (PDF) on the latest Supplemental Documents on CD (item 10-1300B), as well as on the QAD Web site, where it is included with the user guide set for MFG/PRO eB2.

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

PO Shipper Receipts

A new Convert Container/Items for Sales field has been added to Purchasing Control (5.24). A prompt with the same label displays in PO Shipper Receipt (5.13.20) when all of the following are true:

- The Purchasing Control field is Yes.
- PO containers have been created manually using PO Container Maintenance (5.13.13).
- If using Enterprise Material Transfer (EMT), the order type is TRANSHIP.

When you respond Yes to the prompt when confirming the PO shipper, the system copies the container structure as a sales order shipper container with the same ID as the received container.

This new feature supports a business model in which the company receives a containerized shipment from its supplier for transshipment to its end customer. By setting the field to Yes during receipt, the company can simply attach the original container ID to their sales order shipment.

Service/Support Management

A new Revenue Type field has been added to Contract Deferred Income Report (11.5.13.21.2). Enter one of the following values to limit the report output as needed.

- Blank (the default): Contracts are selected regardless of revenue type.
- A: Only accrued-revenue contracts are selected.
- C: Only cash-basis contracts are selected.
- D: Only deferred-revenue contracts are selected.

EDI ECommerce

EDI ECommerce updates added by this service pack include the following.

ECommerce Functions

ECommerce Function Maintenance (35.15.21) and ECommerce Function Copy (35.17.2) have been modified to increase the number of internal names that can be assigned to user-defined transformation functions.

Although the user specifies a name for each function when creating it, the system assigns its own name to each function. Even if unneeded user-defined functions are deleted, the system cannot reuse the internal names. Previously, the system was limited to 999 internal names, which were in the format `edfct999.p`. An error displayed when the maintenance or copy program attempted to create more functions.

Now, the naming convention has been changed, and up to 999,999 internal names can be associated with user-defined functions.

Additionally, a new utility, Renumber Internal Function Name (35.17.25.1, `utedtrf.p`), has been added to rename existing procedures, remove gaps in the sequence resulting from deleted functions, and convert references in existing code to match the new internal names.

Example Existing functions are assigned the internal names `edfct001.p` and `edfct004.p`; functions that used `edfct002.p` and `edfct003.p` were deleted. The new utility reassigns the remaining functions to internal names `ed000001.p` and `ed000002.p` and updates references with the new names.

Warning Messages

A new Show Warning Messages field has been added to the following programs:

- Shipment ASN Export (35.4.1)
- Invoice Export (35.4.3)
- Purchase Order Acknowledgment (35.4.5)
- Packing List Export (35.4.15)

When this field is Yes, the system displays warning messages stating that some documents were skipped during export because of trading partner parameter setup data. Otherwise, the system skips the documents without displaying the messages.

General Ledger

New selection criteria ranges are now available in Recalculate acd_det Totals (36.25.39, utacdfix.p) that let you further restrict which totals are recalculated based on the year and financial period. Additionally, this utility has been enhanced to improve performance.

Service Pack 6 Release Notes

Service Pack 6 for MFG/PRO eB2 includes all ECOs closed between December 18, 2003, and March 31, 2004. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Consignment Inventory Enhancements

This service pack includes updates to both Customer Consignment Inventory and Supplier Consignment Inventory.

Customer Consignment Inventory

The Customer Consignment Inventory module (7.18) has been expanded to enable the reversal of consigned inventory that has been issued. The user can now correct erroneous shipments or reverse portions of a previous shipment involving consigned inventory by processing a negative shipment quantity on consigned sales order lines attached to shippers.

Previously, once issued, only the entire shipment could be undone or reversed.

The system now provides a systematic negative consignment transaction that enables the correct inventory transactions to occur without losing traceability or introducing security risks.

This service pack includes the following expanded functions:

- When you enter a negative quantity in a sales order shipper/shipment function for a consigned sales order line, the system now prompts you to indicate whether the negative quantity is a:
 - Correction to a previous shipment
 - Return of inventory from a consigned location

This value is stored in the system and used during the inventory shipment confirmation process to accurately handle the inventory quantity and transactions.

- When the inventory being returned involves a previous consigned inventory transaction, the consigned inventory quantities are reduced accordingly and the system creates reversing consignment inventory transactions.
- When a negative shipper or container line is a correction or return involving consigned inventory, the system generates ISS-TR, ISS-RCT, and CN-SHIP inventory transaction history records for the negative quantity. This reverses the original transaction and returns inventory to stock.
- When a negative shipper or container line involving consigned inventory is not processed as a correction or return, the system generates a credit invoice to the customer for the negative quantity using the standard ISS-SO inventory transaction.

- When unconfirming a shipper with a negative consigned inventory quantity, the system reverses the transaction by creating inventory transactions for positive quantities.
- Messages used in sales order shipments for negative quantities on consigned lines have been added to menu functions where shippers, pre-shippers, and containers are created, including:
 - SO Container Maintenance (7.7.7)
 - Pre-Shipper/Shipper Workbench (7.9.2)
 - Sales Order Shipper Maintenance (7.9.8)
- Usage programs prompt for an effective date.

Additionally, a new program, Shipper Usage Create (7.18.19), lets you manually consume inventory by shipper number. The system updates the bill of lading with the last shipper consumed.

Supplier Consignment Inventory

The Supplier Consignment Inventory module (5.18) has been enhanced to allow automatic corrections to consignment inventory.

Previously, a correction had to be made by manually reversing the issue transaction, performing an adjustment to return inventory to its consigned status, and creating a memo voucher.

This service pack includes the following enhanced features:

- When a negative quantity is processed during a function where consigned inventory is consumed, the system returns inventory to its respective consigned or non-consigned site and location to the extent that it has *not* been reported as used.
- In addition to a standard MFG/PRO issue transaction for the negative quantity, negative quantities processed as consigned reversals now create RCT-PO and CN-ISS transactions. MFG/PRO transfers the quantity back to consigned inventory.
- When a reversal is processed, supplier-consigned inventory is increased.
- When reversals of consigned inventory occur, the system creates a GL transaction that debits the Consigned Inventory account and credits the Consigned Inventory Offset account.
- The system now automatically creates a negative pending voucher for the supplier whose consigned inventory is reinstated as unused. This offsets the positive pending voucher created when the material was first consumed.
- The system excludes reported usage records for reversals—eliminating the risk of double payment for consigned inventory when original usage was reported and paid for prior to a reversal transaction.

- Negative consignment issue transactions can be created using the menu functions listed in the following table.

Menu	Menu Title	Menu	Menu Title
3.4.1	Transfer–Single Item	12.17.22	Distribution Order Shipments
3.4.3	Transfer With Lot/Serial Change	16.10	Work Order Component Issue
3.4.4	Batchload Transfer with Lot/Seri	16.12	Work Order Receipt Backflush
3.7	Issues–Unplanned	16.19	Work Order Operation Backflush
3.12	Receipts–Backward Exploded	17.21.7	Flow Schedule Receipts
3.14	Cycle Count Results Entry	17.22.19.5	Kanban Fill/Receive
7.9.5	Pre-Shipper/Shipper Confirm	18.3.6	Repetitive Picklist Transfer
7.9.7	Pre-Shipper/Shipper Auto Confirm	18.14	Repetitive Labor Transaction
7.9.21	Shipper Unconfirm	18.16	Repetitive Rework Transaction
7.13.1	Pending Invoice Maintenance	18.17	Repetitive Reject Transaction
7.18.22	Usage Create Undo	18.22.3.6	Repetitive Picklist Transfer
7.25.3	SO Batch Shipment Processor	18.22.5.11	Sub Shipper Issue
10.5.13	Project Activity Recording	18.22.13	Backflush Transaction
10.7.6	Material Order Shipments	18.22.17	Rework Transaction
11.1.1.13	Call Activity Recording	18.22.19	Move Transaction
11.7.1.1	RMA Maintenance	19.7	Quality Order Maintenance
11.7.1.16	RMA Shipments	19.11	Quality Order Results Entry
12.15.20	Distributed Order Receipt		

VAT Registration Codes

To support the addition of 10 countries to the European Union (EU) on May 1, 2004, new value-added tax (VAT) registration codes are now validated when they are associated with customer, supplier, and end-user addresses.

The following table lists the new formats. They are built as follows:

- The first two letters are the country code.
- A is letters A-Z only.
- 9 is 0–9 only.

Country	VAT Registration Format
Cyprus ¹	CY9999999A
Czech Republic	CZ99999999 or CZ99999999 or CZ99999999
Estonia	EE99999999
Hungary	HU99999999
Latvia	LV9999999999

Country	VAT Registration Format
Lithuania	LT999999999 or LT999999999999
Malta	MT99999999
Poland	PL9999999999
Slovenia	SI99999999
Slovak Republic	SK9999999999

1. For Cyprus, the last character must be a letter.

Intrastat

A new utility program, EU Expansion Intrastat Utility (2.22.25.2, `uti_eu.p`), has been added to create order Intrastat data for open sales and purchase orders—including scheduled orders—for customers in new EU member nations.

Similarly, for customers in current EU nations trading with new EU members, the utility updates existing order Intrastat data with newly defined values for commodity code, Intrastat item, and country of origin.

The utility includes an Update field so you can initially run it in simulation mode.

EDI ECommerce

EDI ECommerce updates provided with this service pack include the following:

- An EDI document containing item and price information can now be exported using Price Catalog Export (35.4.17). For example, this exported document can be used to transmit price data to a catalog system or to a customer who needs the latest list of prices.
- A Display Passed/Failed/Both field has been added to most EDI ECommerce document import and export processing programs to control whether the output report is limited to either passed documents or failed documents, or includes both.

For example, setting the field to Failed lets users immediately identify documents that experienced processing problems.

Sales and Use Tax Interface

A new Zero Tax/Exemptions as Non-Taxable field has been added to Tax Interface Control (36.5.3.24). This lets you control how taxes set up for individual jurisdictions are handled in MFG/PRO based on Quantum Tax Decision Maker (TDM) information when tax exemptions or zero tax rates are involved.

When taxes are set up in Quantum based on VQ-10, VQ-20, VQ-30, and VQ-40 tax types, set this field to Yes to record the following as non-taxable in MFG/PRO:

- Taxable lines with exemptions or exceptions
- Lines with zero tax rate

Previously, under the same circumstances, the non-taxable information from the TDM was always recorded as taxable in MFG/PRO. Leave the new field set to No to continue using this logic.

Closed Call WIP Cleanup Utility

The system previously allowed inventory transaction history (tr_hist) and operation transaction history (op_hist) records to be deleted even when they were associated with call activity that had not been invoiced. When the call was invoiced, this situation sometimes resulted in incorrect work in process (WIP) cost amounts.

Although tr_hist and op_hist records can no longer be deleted under those circumstances, existing closed call work order records may be associated with WIP amounts.

This service pack provides a new utility, Clear WIP for Closed Calls (11.25.26, utwipclr.p). The program re-creates transaction history for such calls, then clears the incorrect WIP amounts.

Service Pack 5 Release Notes

Service Pack 5 for MFG/PRO eB2 includes all ECOs closed between September 15, 2003, and December 17, 2003. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Purchasing

A Supplier Lot field has been added to the following programs in the Purchasing module:

- PO Container Maintenance (5.5.5.4, 5.13.13)
- PO Shipper Maintenance (5.5.5.5, 5.13.14)
- PO Fiscal Receiving (5.13.16)

The addition of the new field makes these programs consistent with Purchase Order Receipts (5.13.1) for MFG/PRO users who want to associate supplier-assigned lot numbers with purchase order receiving activities.

Inventory Control

When you attempt to delete a site in Site Maintenance (1.1.13), the system now verifies that it is not the default inventory site defined in Inventory Control (3.24). If it is, an error message displays.

Previously, you were allowed to delete this site.

Service/Support Management

Installed Base Item Maintenance (11.3.1) now updates the last preventive maintenance (PM) date when you close a non-PM call that includes a PM line. Previously, the system did not update the Last PM Date field under those circumstances.

Global Tax Management

A new Display Recoverable/Non-Recoverable option has been added to the following reports:

- AP Tax by Transaction Report (2.13.15.16)
- AP Tax by Tax Rate Report (2.13.15.17)

Depending on the setting of this field, the reports display a new column for recoverable or non-recoverable taxes, calculated based on the Percent Recoverable value specified in Tax Rate Maintenance.

Previously, recoverable and non-recoverable amounts could not be reported separately.

Sales and Use Tax Interface

A new Use Sold-To for Tax Usage Exceptions field has been added to Tax Interface Control (36.5.3.24).

When this field is Yes, tax usage codes that display during processing of sales orders, invoices, calls, and return material authorizations (RMAs) default from settings associated with the sold-to customer, rather than the ship-to address. These values are passed to the Vertex application and used in tax calculations.

This feature is useful in situations where the tax exemption status of the sold-to and ship-to addresses is not the same; for example, when items purchased by a non-exempt company are drop-shipped to a non-profit agency.

Previously, tax values always defaulted from the ship-to address and had to be changed manually in all such cases during order processing.

EDI ECommerce

A new utility program, ECommerce Function – Delete (35.25.1), has been added to delete QAD-designed transformation functions that have been assigned an incorrect internal name ending in .p.

After running the utility to delete the incorrect records from the Transformation Definitions Function Master table, use Transformation Definition Maintenance (35.15.17) to delete the definitions that include references to the incorrect functions. Then, after downloading the correct trading partner definitions from the trading partner library on the QAD Web site, reload them using Trading Partner Library Load (35.17.7).

User Interface

In the character and Windows interfaces, the Ctrl+F key combination now displays a pop-up window with more complete information about the context of the current field. This includes the program name being executed, which previously displayed on the title bar in the character UI, as well as the field name, label information, full name of the user, and other items.

Note This feature does not apply to QAD Desktop.

Previously, Ctrl+F displayed a message at the bottom of the screen with information about up to three possible field validations: generalized codes, field security, and batch delete.

Service Pack 4 Release Notes

Service Pack 4 for MFG/PRO eB2 includes all ECOs closed between June 3, 2003, and September 14, 2003. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Lean Manufacturing Updates to Kanban Module

This service pack includes additional Lean Manufacturing enhancements to the Kanban module.

Using the enhanced Kanban features provided in Service Pack 4, you can:

- Calculate average demand and safety stock using separate menu programs. This adds flexibility by letting you use different numbers of historical and future days in each type of calculation.
- Use a new program, Inventory Validation Report (17.22.15), to compare the calculated kanban quantity on hand—based on the number of full kanbans—with the supermarket location on-hand inventory balance.
- Specify a number of resources and maximum load percentage for a kanban process.
- Specify minimum every-part-every interval (EPEI) parameters for both processes and individual process items to support minimum replenishment cycle logic.
- Specify whether individual kanban loops report consumption when the first item is removed from the container, or when the last item is used. The system uses this setting to determine whether an additional card is required in the loop.
- Calculate lead times for a process using either a fixed or variable method.
- Specify several item characteristics related to material run-out techniques. Sometimes it is more efficient for a process employing a setup-intensive bulk material to use an entire specified quantity of that material each time it runs a kanban item, regardless of the kanban quantity. For example, this could apply to items built from a coil of steel requiring extensive changeover time.
- Identify the cost set used in inventory value calculations for each kanban item, as well as the method used for calculating average inventory.
- Define kanban container types using a new program—Container Type Maintenance (17.22.5)—in terms of several size, weight, and other characteristics, as well as user-defined parameters.
- Export additional data for manipulation in an external workbench and import back to MFG/PRO.

Note See the service pack installation instructions for information on updating your MFG/PRO environment, converting existing database records, and loading online help for the new programs.

For information on setting up and using the added features, see *User Guide: Kanban* (item 78-0593B), which includes an updated version of the Kanban chapter from MFG/PRO eB2 *User Guide Volume 3: Manufacturing*. This new product information is available in Portable Document Format (PDF) on the latest Supplemental Documents on CD, as well as on the QAD Web site:

<http://support.qad.com/documentation/mfgpro/eb2/userguides.html>

Invoice History

New selection criteria fields in Invoice History Delete/Archive (7.13.23) now let you select records by invoice date range. Previously, only the order date range was available.

Ship-To Addresses

Temporary Ship-To Delete (2.1.16) now displays both deleted records and those that cannot be deleted because they are referenced by a sales order, return material authorization (RMA), sales quote, invoice, or service/repair order.

Previously, the output report from the program did not include records that matched the selection criteria but were not deleted.

Intrastat

When you are using Intrastat, Sales Order Maintenance (7.1.1) and RMA Maintenance (11.7.1.1) now prompt you to update the destination or dispatch country when you change the ship-to address on an existing order to an address in a different country.

Previously, the prompt did not display, and Intrastat information was not updated.

Service/Support Management

The service pack includes the following updates to the SSM module:

- In Contract Deferred Income Report (11.5.13.21.2), you can now limit the scope of the report by specifying a currency code. When you do this, the report displays the transactions in that currency. Previously, the report included all transactions meeting the selection criteria regardless of the associated currency and displayed them in base currency.
- A field has been added to Call Generator (11.1.8) to let you override the Credit Hold Status setting in Service Management Control when you generate calls for field notifications. When Input Source is F and you set the new Use Credit Hold Option field to No, the system creates calls without checking the credit hold status of the customer.

When it is Yes, the system checks the credit hold status and uses the Service Management Control setting to determine processing for customers on credit hold:

- 0: Generates the call with no credit restriction
- 1: Displays a warning message and generates a call with the status specified in the Hold Status field in Call Management Control
- 2: Displays an error message and does not generate a call

For example, setting the new field to No lets a medical equipment manufacturer generate field notification calls for all customers—regardless of credit status—related to vital equipment repairs.

- Call Activity Recording (11.1.1.13) has been modified to prevent material order lines from becoming stranded when being consumed by call lines.

When the engineer associated with the call line is not the same as the MO-line engineer, the system displays a warning message when the MO line is applied to the call line. Previously, if you pressed End when this message displayed, the MO was neither consumed by the call line nor available for consumption by other lines.

Now, pressing End at the message display makes the MO line available for consumption. As before, pressing Go, Enter, or the spacebar still consumes the MO line on the current call line.

The utility program `utcarpos.p` has been added to update MO line records left stranded before this change was made. See “System Utilities” on page 66.

General Ledger

The service pack includes the following updates to GL functions:

- A Show Non-Selected Transactions field has been added to Account Balance Detail (25.15.2). This lets you control whether the report should be limited specifically to the selection criteria or include transactions that would ordinarily be excluded by such factors as a limited range of daybooks. Previously, the program sometimes produced inconsistent totals when you compared the results with Account Balance Summary (25.15.1).
- In Default Daybook Maintenance (25.8.4), three additional document types can now be associated with inventory control transactions in default daybooks:
 - MATL-VAR: Material Variance
 - FLR-STK: Floor Stock
 - MIX-VAR: Mix Variance

You can use these document types to correctly post transactions to daybooks when you run Work Order Accounting Close (16.21).

Trade Management

The Advanced Pricing Management (APM) product has been renamed Trade Management (TrM). All occurrences of APM have been modified accordingly in MFG/PRO menus, messages, field labels, and online help. For example, Sales Order Control (7.1.24) now includes a field labeled Integrate with TrM.

Q/LinQ and QXtend Inbound

Q/LinQ has been modified to support the QXtend Inbound component of QAD QXtend interoperability framework, which provides a single, standardized data interface among QAD products, and between QAD products and external systems.

For more information, see the following documents, which are available on the QAD Web site:

- Release notes for the latest Q/LinQ service pack
- *Technical Reference: Q/LinQ*
- *Technical Reference: QXtend Inbound*

System Utilities

This service pack adds the following new utilities:

- Delete Stranded Browse Records (36.25.19, `utqadbrd.p`) generates a report by user ID and optionally deletes stranded QAD Workfile (`qad_wkfl`) records. Various programs—browses, for example—use QAD Workfile to store information temporarily. Ordinarily, these records are deleted by the program that generated them when they are no longer needed. However, terminating the program abnormally can leave stranded `qad_wkfl` records. When running certain browses, having too many stranded records for a user can impact system performance. Previously, there was no menu option for deleting such records. The new utility addresses that issue.
- Update Call Act. Rec. Load (36.25.74, `utcarmos.p`) updates the material order detail records on existing stranded MO lines to make them available for consumption in Call Activity Recording. See “Service/Support Management” on page 64.

Service Pack 3 Release Notes

Service Pack 3 for MFG/PRO eB2 includes all ECOs closed between March 7, 2003, and June 2, 2003. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Lean Manufacturing Updates to Kanban Module

This service pack includes Lean Manufacturing—a comprehensive set of enhancements to the existing kanban features of MFG/PRO eB2.

Using the enhanced features of the Kanban module, you can:

- Define one- and two-card kanban loops to pull inventory between a receiving *supermarket*—or kanban inventory location—and a source of supply. Kanban supermarkets can be supplied by either another inventory supermarket, an external supplier, or a manufacturing process.
- Set up manufacturing processes to supply kanban loops.
- Calculate key values—including average demand, safety stock, takt time, and every-part-every interval (EPEI)—to support accurate kanban loop and supermarket buffer sizing.
- Use QAD Desktop workbench programs to size kanban loops and supermarket buffers, analyze projected buffer performance, and generate level schedules. These workbenches let you simulate the effects of changes before you update the database. Workbench export and import programs also are provided if you prefer to use a custom external program.
- Create, print, and update kanban cards using a complete set of card management tools. For example, you can create limited-use cards that are valid only during a specified period or for a user-defined number of cycles.
- Use individual transactions to record cards and track kanban status throughout the production cycle.
- Through an integration with the Kanban Visualization features of QAD MFGx.net, automatically post up-to-date kanban status data from your MFG/PRO database for your suppliers to view with a Web browser.

The service pack includes comprehensive changes to the Kanban Menu (17.22). Most of the existing menu programs have been extensively modified or replaced, and many new programs have been added.

Note See the service pack installation instructions for information on updating your MFG/PRO environment, converting existing database records, and loading online help for the new programs.

For information on setting up and using the added features, see *User Guide: Kanban* (item 78-0593A), which includes an updated version of the Kanban chapter from MFG/PRO eB2 *User Guide Volume 3: Manufacturing*. This new product information is available in Portable Document Format (PDF) on the latest Supplemental Documents on CD, as well as on the QAD Web site:

<http://support.qad.com/documentation/mfgpro/eb2/userguides.html>

Minor GTM Change

This service pack supports a new control feature for Global Tax Management (GTM) reporting.

In many taxable documents, a summary of taxable and non-taxable amounts displays on the document trailer. Understanding these summary figures can be confusing when multiple taxes exist for transaction lines and when two taxes have a different tax base. For this reason, you may want to suppress the display of these totals, especially on printed documents received by customers.

You can now use a new field to control the display of summary amounts.

Global Tax Management Control

The new Display Taxable/Non-Taxable on Trailer field in Global Tax Management Control (2.13.24) determines whether summary totals are included in the order trailer frame in maintenance programs and printed documents.

This field affects the display of taxable amounts in the following programs:

- Sales Order Maintenance (7.1.1)
- Sales Order Print (7.1.3)
- Pre-Shipper/Shipper Confirm (7.9.5)
- Sales Order Shipments (7.9.15)
- Sales Quote Maintenance (7.12.1)
- Sales Quote Print (7.12.3)
- Pending Invoice Maintenance (7.13.1)
- Pending Invoice Register (7.13.2)
- Invoice Print (7.13.3)
- Invoice Post (7.13.4)
- Invoice History Report (7.13.8)
- Closed Invoice Reprint (7.13.12)
- Call Invoice Recording (11.1.1.15)
- Contract Quote Print (11.5.1.3)
- Contract Print (11.5.13.4)

- Contract Invoice Reprint (11.5.18.15)
- RMA Maintenance (11.7.1.1)
- RMA Receipts (11.7.1.13)
- RMA Shipments (11.7.1.16)
- DR/CR Memo Print (27.15)

Tax Detail by Transaction Report

You can use the new Display Taxable/Non-Taxable Total Amounts field in Tax Detail by Transaction Report (2.13.15.3) to determine the report output. When this field is No, these amounts do not display; when Yes, the total amounts display for each reference.

Fixed Assets Changes

Transferred Assets

The Depreciation Expense Report (32.5.7) now correctly presents information about an asset that was transferred between entities within a period included in the report selection criteria. You can use the new Print Transfer Detail field to determine whether information about the transfer is included on the report.

The way the system handles the transfer of suspended assets has been improved. You can now use Fixed Asset Transaction Post (32.13) to create the proper GL transactions when a suspended asset is transferred to another location within an entity or to another entity. New messages display in Fixed Asset Maintenance (32.3). The system displays an error if you try to reinstate a nonsuspended asset. Also the system validates that the reinstatement occurs after any transfer. If not, it issues the following message:

```
Asset transferred and posted in period N. Reinstate in a later period.
```

Acquisition Cost

The system now gives you greater control over how you manage the creation of GL transactions for the acquisition cost of an item. After you add a new asset in Fixed Asset Maintenance (32.3) or use the Create function in Fixed Asset Batch Maintenance (32.7), a new frame displays with four fields. The first field is Post to GL. If you respond No, GL transactions for the acquisition cost are not created. Since you may have already accounted for the acquisition cost previously—for example, during purchase order receipt—this prevents double booking of the cost.

If you respond Yes to create GL transactions, you can then specify a GL effective date for the transaction and a daybook to use. Finally you can specify whether to print an audit trail of the GL transactions. If you respond Yes to Print GL Audit Trail, you are prompted for an output device.

Fixed Asset Transaction Post (32.13) no longer creates transactions for the acquisition cost when the first depreciation entry is posted since this transaction, if needed, was created previously when the asset was added. Since these transactions are not created in the post program, you cannot use Fixed Asset Transaction Void (32.14) to void them.

Note The setting of Summarized Journal in Fixed Asset Control (32.24) has no effect on transactions created for acquisition cost. These are always created in detail.

Service/Support Management

This service pack corrects a problem created when an invoice was posted for a non-base currency call and items were issued or received for the call in Call Activity Recording (11.1.1.13). Before this service pack, the inventory transaction that recorded the issue or receipt was created in base currency, but the price and covered amount were stored in the call currency.

If these types of transactions were created in your database, you should run a new utility program to correct them. Use Update Trans Hist for Calls (11.25.25) to convert the Price and Covered Amount from transaction currency to base currency in inventory transaction history records.

Note The accuracy of this utility depends on the availability of call and call history data. If data has been deleted or archived, then records are not updated.

System Data

You can now use an asterisk (*) as a wildcard character when defining default printers in Printer Default Maintenance (36.13.4). This enhancement streamlines the setup of global defaults for all users.

Service Pack 2 Release Notes

Service Pack 2 for MFG/PRO eB2 includes all ECOs closed between December 6, 2002 and March 6, 2003. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

New Requisition Control Options

GRS Control (5.2.1.24) has been enhanced with two new control options. After installing the service pack, the new control options will not affect your Global Requisition System (GRS) environment unless you change the default values. The new control options:

- Prohibit or allow modification of a requisition after the requisition is routed for review and at least one approver has approved it.
- Reset all approvals after one approver denies the requisition and reroutes the denied requisition back to the originator.

The following paragraphs describe the two GRS Control options.

Prohibit Changes to Approved Requisitions. Use this field to prohibit or allow changes to an approved requisition.

No: You can edit the requisition after approvals exist using Requisition Maintenance (5.2.3) or Requisition Approval Maintenance (5.2.13).

Yes: If one approver has approved the requisition, only the buyer can edit the requisition. If you are not a buyer, an error message displays if you attempt to edit any requisition field.

Reset Approvals Upon Denial. Use this field to reset the approval status for all approvers upon denial.

No: When an approver denies a requisition, only that approver's status is set to denied. Any existing approval statuses are maintained. The routing does not change.

Yes: When one approver denies the requisition, the status of all other existing approvers is reset, regardless of the original approval status. The system routes the requisition back to the requester or originator. Use Approval Status Inquiry (5.2.15) to display the reset approval status.

Intrastat History Records

Service Pack 2 includes significant changes to how Intrastat records are managed and generated, for both purchasing and sales-related transactions.

Sales-Related Intrastat Records

Prior to these changes, Intrastat history data for sales transactions was collected during invoice post. This could result in legal non-compliance during Intrastat reporting if a time gap existed between shipment of goods and posting the corresponding invoice. It also created problems when the Customer Consignment Inventory module was being used, since only inventory consumed at the customer site was reported on Intrastat declarations, not the inventory that was actually shipped.

The changes introduced by Service Pack 2 include the following:

- Intrastat history data is now collected at time of shipment using the type 1 (shipment) history record. A new type 9 (invoice) record is created during invoice post.
- A new field has been added to Intrastat Control to manage sales-related Intrastat history. The new field is similar to the current Reference Date Logic field, which affects purchasing transactions only. The existing Reference Date Logic field has been renamed PO Reference Date Logic and the new field is SO Reference Date Logic.
- When unreported Intrastat shipment history records exist for a standard sales order, posting an invoice:
 - Changes the Intrastat history record type from 1, indicating a shipment, to 9, indicating an invoice. This effectively deletes the shipment record.
 - Updates the invoice number and invoice date fields in the history record.
 - When SO Reference Date Logic is 2 in Intrastat Control, also updates the reference date with the invoice date.

Note For standard sales orders, only one type of Intrastat history record exists at a time for any sales order line.

- The system manages Intrastat history for consigned shipments differently, since customers are invoiced only for the portion of a shipment they have used. In this case, both shipment and invoice type history records can exist simultaneously until all inventory is consumed. Invoice Post updates any unreported shipment data for consigned inventory as follows:
 - Reduces the quantity shipped by the quantity invoiced, and recalculates the invoice value, statistical value, net weight, and supplementary units.
 - When SO Reference Date Logic is 2 in Intrastat Control, updates the reference date, invoice number, and invoice date.
 - When the quantity on the shipment record is reduced to zero, deletes the record. Any future Intrastat reporting is done on the record created by invoicing.
- Declaration Print now checks the value of SO Reference Date Logic in Intrastat Control. If this is 2, any history records without an invoice number are skipped.

Purchasing-Related Intrastat Records

Prior to Service Pack 2, Intrastat history data for purchasing transactions was collected only at two points:

- During receipt of goods (type 2 records)
- When the associated receiver was fully vouchered (updated the type 2 records with the invoice cost from the last voucher)

A printed declaration could include erroneous cost information when a receipt was partially vouchered and the purchase order cost differed from the invoice cost of any vouchered quantities. Even when the declaration included information about receivers that were fully vouchered, the statistical value was based only on the invoice cost of the last voucher and did not account for any previous partial vouchers.

To correct these problems, the changes introduced by Service Pack 2 include the following:

- Intrastat history data is now collected for each vouchered quantity of a receiver at the invoice cost during vouchering using type 6, voucher, records. Previously only type 2 records were created.
- If the received quantity has not been reported already on an Intrastat declaration when vouchering occurs, the quantity received is reduced by the quantity vouchered, and the invoice value, statistical value, net weight, and supplementary units are recalculated. When the quantity on the receipt record is reduced to zero, the record is deleted and reporting is done on the record created by vouchering.
- The label of the Reference Date Logic field in Intrastat Control has been changed to PO Reference Date Logic to distinguish it from the new SO Reference Date Logic field. Having two fields lets the collection of inbound and outbound Intrastat records operate under different rules.

When a voucher is modified or deleted after it has been reported, you must correct the Intrastat history manually using Intrastat Maintenance (2.22.13). If a voucher is deleted before it has been reported, the system updates the receiver's Intrastat history record appropriately.

When the total vouchered quantity for a receipt exceeds the receipt quantity, the system does not collect any more Intrastat data. This is true even when the receipt history has not been reported. When this situation occurs, you should modify the quantity on one of the associated vouchers or correct the Intrastat history manually using Intrastat Maintenance.

Viewing Intrastat History by Order

Use any of the following inquiries to view Intrastat information:

- Intrastat Inquiry by Invoice (2.22.15)

- Intrastat Inquiry by Voucher (2.22.16)
- Intrastat Inquiry by Order (2.22.17)

You can specify new order types using Intrastat Inquiry by Order (2.22.17). Previously, all sales-related history could be viewed by entering SO (type 1). Now sales history created by shipments (type 1) is distinguished from sales history created during invoicing (type 9).

Previously, all purchasing-related history could be viewed by entering PO (type 2). Now, purchasing history created during receipt (type 2) is distinguished from purchasing history created during vouchering (type 6).

You can also use type 3, correction, to view history records created with Intrastat Maintenance (2.22.13).

Conversion

This update requires a one-time conversion of existing sales-related Intrastat history records. After installing Service Pack 2, use Intrastat SO Invoice Conversion (2.22.25.1) to convert your records appropriately.

Continuing MRP/DRP Performance Improvements

The initial release of MFG/PRO eB2 featured enhancements that let you use a Progress Application Server, or AppServer, to run multithreaded MRP and DRP sessions, resulting in dramatically improved MRP/DRP performance.

Service Pack 2 includes a second phase of enhancements that result in better MRP/DRP performance for both Progress and Oracle database configurations that use an AppServer.

Oracle Version

To take full advantage of the AppServer performance improvements with an Oracle database, you should be running Oracle version 9.1D05, which corrects a number of problems in version 9.1D. If you are using an earlier version of Oracle with an AppServer, you must add the following parameters to the `ubroker.properties` file:

```
minSrvrInstance=0
autoTrimTimeout=1
```

See “Updated Oracle Properties” on page 76 for an updated file example.

Documentation Updates

This section identifies changes to the information in *MFG/PRO eB2 User Guide Volume 9: Manager Functions*, Chapter 11, “Application Server.”

Additional Oracle Environment Variables

Add two more environment variables to the entry described under step 1 on page 173:

```
NLS_LANG=AMERICAN_AMERICA.WE8ISO8859P1
NLS_NUMERIC_CHARACTERS=.,
```

Note The NLS variables shown are for American English. Be sure to use appropriate values for your language environment.

Additions to Server Startup Parameters

Update the server startup parameters entry in the `ubroker.properties` file to add references to the parameters file (`.pf`) used at MFG/PRO startup. For Oracle, the startup parameters entry must also include a reference to the unified broker.

Progress example:

```
srvrStartupParam=-c 30 -znotrim -d mdy -yy 1920 -Bt 350 -D 100 -mmax 3000
-nb 200 -s 63 -noshvarfix -pf /dr05/mfgpro/eb2/Production.pf
```

Oracle example:

```
srvrStartupParam=-Dsrv svub,1 -c 30 -znotrim -d mdy -yy 1920 -Bt 350 -D 100
-mmax 3000 -nb 200 -s 63 -noshvarfix -pf /dr05/mfgpro/eb2/Production.pf
```

Updated Progress Properties

The following shows the Progress `ubroker.properties` example from user guide page 171 with the updates described in this section in bold text:

```
[UBroker.AS.mt-mrppro]
appserviceNameList=mt-mrppro
brokerLogFile=$WRKDIR/mt-mrppro.broker.log
controllingNameServer=NS1
initialSrvrInstance=12
maxSrvrInstance=20
minSrvrInstance=12
portNumber=50000
PROPATH=/dr05/mfgpro/pro/eb2:/dr05/mfgpro/pro/eb2/us/bbi:
  ${PROPATH}${WRKDIR}
srvrConnectProc=pxldgbl.p
srvrLogFile=$WRKDIR/mt-mrppro.server.log
srvrMaxPort=50202
srvrMinPort=50002
srvrStartupParam=-c 30 -znotrim -d mdy -yy 1920 -Bt 350 -D 100 -mmax 3000
-nb 200 -s 63 -noshvarfix -pf /dr05/mfgpro/eb2/Production.pf
uid=fdf73fbf039907:6ce891fc:ec7f530e95:-7eed
```

Updated Oracle Properties

The following shows the Oracle `ubroker.properties` example from user guide page 172 with the updates described in this section in bold text:

```
[Environment.mt-mrpora]
ORACLE_BASE=/dr02/apps/oracle/
ORACLE_HOME=/dr02/apps/oracle/8.1.7
ORACLE_SID=mrp
NLS_LANG=AMERICAN_AMERICA.WE8ISO8859P1
NLS_NUMERIC_CHARACTERS=.,

[UBroker.AS.mt-mrpora]
appserviceNameList=mt-mrpora
brokerLogFile=$WRKDIR/mt-mrpora.broker.log
controllingNameServer=NS1
environment=mt-mrpora
initialSrvrInstance=12
maxSrvrInstance=20
portNumber=54000
PROP_PATH=.:/dr05/mfgpro/eb2:/dr05/mfgpro/eb2/us/bbi:${PROP_PATH}:${WRKDIR}
srvrConnectProc=pxldgbl.p
srvrLogFile=$WRKDIR/mt-mrpora.server.log
srvrMaxPort=54202
srvrMinPort=54002
minSrvrInstance=0
autoTrimTimeout=1
srvrStartupParam=-Dsrv svub,1 -c 30 -znotrim -d mdy -yy 1920 -Bt 350 -D 100
-mmax 3000 -nb 200 -s 63 -noshvarfix -pf /dr05/mfgpro/eb2/Production.pf
uuid=59fdf73fbf039907:6302bfc1:ec513ed2fd:-6fd7
```

Required only for
Oracle versions earlier
than 9.1D05

EDI ECommerce

As part of the ongoing EDI ECommerce interoperability enhancements, Service Pack 2 adds new fields to the following programs:

- In Exchange Definition Maintenance (35.15.6) and Implementation Definition Maintenance (35.15.13), new fields let you add a namespace reference for document definitions related to XML. Separate fields are available at the record and field levels.
- In Transmission Group Maintenance (35.13.13), you can now specify a timeout parameter for the HTTP server used for posting messages to the transmission group.

AR Self-Billing Enhancement

A new field has been added to Customer Maintenance (2.1.1) and Scheduled Order Maintenance (7.3.13) that lets you specify how invoice totals should be calculated and displayed: by line or by authorization number.

This field is important for users of the AR Self-Billing module, since customers often submit payment based on authorization numbers. Before this field was introduced, MFG/PRO always calculated totals by invoice line. This could result in rounding discrepancies that made it difficult to close out payments.

Service/Support Management (SSM)

A number of minor changes have been made in SSM that affect the user interface.

Modifying Item Usage for Items Loaded from an MO

Items to be issued during service activity related to a call can be ordered with a material order (MO) in SSM. When these items are loaded in Call Activity Recording (11.1.1.13), they become item usage detail records. Starting with SP2, users can no longer modify the site, location, lot or serial number, or lot reference for items ordered on an MO. They must be issued using the inventory details recorded on the MO.

If you issued items and changed inventory details prior to SP2, you may have stranded inventory detail by location (lad_det) records in your database. These records can prevent you from deleting a location even though no real inventory exists there. Use the new Delete Stranded Detail Allocations utility (11.25.24) to remove these records for completed, closed, or deleted calls.

The new utility also corrects the corresponding inventory detail by location (ld_det) records. The utility does not correct allocations for calls with open MO lines. Use Set Qty OH/Qty All/Qty Req (36.25.15) to correct these records.

Next End User Number

The Next End User Number has been removed from End User Control. The system now determines the number to use based on an internal database sequence number.

Service Pack 1 Release Notes

Service Pack 1 for MFG/PRO eB2 includes all ECOs closed between the release of the eB2 product and December 5, 2002. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Enhancements to Logistics Accounting

A number of enhancements have been made to the Logistics Accounting module introduced in MFG/PRO eB2.

Multiple Database Processing

The Logistics Accounting module now includes support for multiple entities and centralized order processing in a multiple-database environment.

Follow these guidelines when setting up data for use in a multiple-database environment:

- Freight setup data is required only in the database where orders are processed.
- Set up identical logistics charge codes in all databases. However, you can associate different accounts with charge codes in different databases. The same is true for detailed accounts defined in Outbound Accrual Account Maintenance (2.15.16) and Outbound Expense Account Maintenance (2.15.19).
- For inbound charges, set up identical tax class codes in the central order processing database and all inventory databases.

The site specified on an order header determines the database and entity where AP transactions take place. Intercompany accounts are updated for logistics charges when either of the following conditions is true:

- The header site is in a different database than the shipping site.
- The entity associated with the header site is different from the entity for the shipping site.

The specific intercompany account updated depends on the type of logistics charge:

- The AP intercompany account is updated for outbound charges.
- The Inventory intercompany account is used for inbound charges.

Note Entities must be defined in all database, but the accounts associated with them do not need to be the same.

Tax records for inbound and outbound orders with logistics charges are always stored in the order database. They are not copied with the order to the inventory database.

Freight accrual and associated GL tax transactions are linked to issue transactions in the inventory database. When the AP intercompany account is updated, a transaction is also created in the order database.

Shipper Gateway

Shipper Gateway (7.9.22) has been modified to:

- Verify that all referenced lines attached to the shipper have the same terms.
- When a shipper is successfully created, a logistics accounting charge detail record is also created for the shipper.

Archiving Vouchered Logistics Charges

Closed AP Delete/Archive (28.23) now deletes and archives vouchered logistics charge pending vouchers that match the specified selection criteria.

EDI ECommerce

Sales order packing lists can now be exported using Packing List Export (35.4.15). This exported document can be used to indicate a request for shipment of product from a public warehouse to a customer location.

Accounts Payable

The 1099-MISC Magnetic Media Report (28.20.3) has been updated to conform to reporting requirements for tax year 2002.

Purchasing

You can use a new purchasing control field to include PST and GST tax IDs on printed purchase orders. When Print Tax ID – Misc on PO is Yes in Purchasing Control (5.24), Purchase Order Print (5.10) includes the PST and GST tax IDs specified in Company Address Maintenance (2.12) in the order header.

