Industry-specific

QAD SOLUTIONS

Manufacturing Applications

MFG/PRO eB2.1

Service Pack Release Notes

QAD

MFG/PRO eB2.1
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Contents

Overview

This document describes significant changes to features of MFG/PRO eB2.1 introduced in each service pack since the release first became available. 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) in a service pack are available at the QAD Web site. To view ECO listings, use the following address:

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

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

Service Pack 4 Release Notes

Service Pack 4 for MFG/PRO eB2.1 includes all ECOs closed between August 19, 2005, and January 27, 2006. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

In addition to these ECO changes, a change to the Progress requirements has been made. Beginning with MFG/PRO eB2.1 SP4, Progress OpenEdge 10B Service Pack 3 is now a requirement for installation.

Lean Manufacturing Updates to Kanban Module

This service pack includes additional Lean Manufacturing enhancements to the Kanban module. These updates provide the same functionality previously added in service packs to MFG/PRO eB2.

Using new Kanban features, you can now:

- 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.

- 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.
- 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 Maint (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/

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.

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

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.

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.

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.

EDI ECommerce

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

- Two new export gateways have been added:
  - Use DO Packing List Export (35.4.16) to 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 Maint (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
  - 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 Maint (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 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.

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.

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)

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 header due date from the request header
- The load, transit, and unload lead times defined in Transportation Network Maintenance 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 transportation ID. Normally, the lead times defined in Transportation Network Maintenance provide the correct defaults.

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.

Service Pack 3 Release Notes

Service Pack 3 for MFG/PRO eB2.1 includes all ECOs closed between January 22, 2005, and August 18, 2005. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Support for Oracle Databases

Effective with this service pack, MFG/PRO eB2.1 is available for Oracle databases.

Important The stand-alone Service Pack 3 installation does not apply to Oracle. You must do a complete MFG/PRO installation to install the service pack features in an Oracle environment.

See *MFG/PRO eB2.1 Installation Guide: Oracle Database*.

Note MFG/PRO eB2.1 for Oracle requires Progress version OE10B02. The installation guide provides information on specific Progress components.

Domain PROPATH Setup

A new Propath Setting field has been added to Domain Maintenance (36.10.1) to support multiple-domain environments in which product licensing agreements or localizations are not the same across all domains. For example, one domain might use a Brazilian financials localization, a second European Accounting, and a third the standard MFG/PRO Financials functionality.

Note This new field is typically needed only under very specific circumstances. Most MFG/PRO system administrators can leave it set to the default value, blank.

In MFG/PRO, the Progress PROPATH environment variable sets the directory paths the system uses to locate and run executable programs. Values set in the PROPATH can point to different directories for different sets of programs, or multiple versions of the same set of programs. The new Domain Maintenance field lets you associate each domain with a specific set of PROPATH entries—so that the system automatically runs the correct program code for the current domain.

When you log in to a domain that has a value entered in Propath Setting—or switch to one using Change Current Domain (36.10.13)—the system updates your current default PROPATH by adding the domain-specific directories to the front. This allows domain-specific programs to be found before those in your default PROPATH, which is assigned at log-in. Each time you switch domains, the system clears any PROPATH changes made for the previous domain and adds new values, if any are specified in the new domain's Propath Setting field.

Use the following steps to update the new field.

Important Because of a user interface limitation, you cannot update the Propath Setting field using Domain Maintenance in QAD Desktop; it is available only in the character or Windows UI. However, this does not limit QAD Desktop's ability to run domain-specific programs based on Propath Setting values entered in a different UI.

1 Be sure you are not currently logged in to the domain you want to update. If you are, the Propath Setting field is disabled. If necessary, switch to a different domain using Change Current Domain.

2 Enter a comma-separated list of directories—in addition to those defined at log-in—the system should use for this domain.

3 Press Go. The system validates that your entry does not exceed 160 characters—the maximum size of the database field—and that all elements represent valid directories.

Security and Enhanced Controls

This service pack addresses a number of issues in the areas of general system security, as well as the Enhanced Control module.

Security Updates

- Change Current Domain (36.10.13) has been modified to ensure that menu security works properly.
- Logon Attempt Report (36.3.23.1) has been modified to sort by log-in date/time to assist in identifying intrusion patterns over time. Previously the program sorted by user ID.
- User Group Report (36.3.23.4) now has different labels on the Active Domain and Active User columns. Previously both columns were labeled Active.
- A security issue that could have allowed an unauthorized user to exit to the Progress Editor during MFG/PRO log-in has been corrected.

Enhanced Controls Updates

- Several code changes have been made to ensure Enhanced Controls works with Progress OpenEdge 10.
- Audit Trails functions have been updated as follows:
    - Overall performance has been improved by changing the way audit trail data is captured before being written to the audit database. This update requires schema changes to the audit trail transaction tables in the qaddb database.

The new method does not work correctly if the table being audited has ever had fields deleted from it—for example, by a customization. The QAD installation utility MFG/UTIL now includes tools to identify this situation and correct it during installation. In addition, audit trail setup programs now check for deleted fields and display warning or error messages if they are found.

See the Enhanced Controls chapter of *Installation Guide: MFG/PRO eB2.1* for more information.

- The subject line for e-mail notification for the Audit Trail Creation Process has been changed to Audit Trail Creation. Previously it read AT_CREATION.
- Additional master comments have been added to clarify e-mail notifications.
- Code modifications corrected a performance problem when the Audit Trail Creation Process is done with a full table scan.
- Date, time, and time zone are now retrieved from the appropriate server in a multi-database environment.
- Audit Profile Activation (36.12.13.8) has been modified so that the output report correctly displays the user-entered delete keys as type Other. Previously they were shown as Primary.
- In the Audit Trail Report–Existing (36.12.1) and Audit Trail Report–Deleted (36.12.2), field labels now display correctly when users scroll through selected records.
- The same two reports now correctly display modified field data when a database field is a substring of another.

- Several changes have been made to Electronic Signatures:
  - Two features in E-Sig Workbench Profile Maintenance (36.12.14.5) now work in a QAD Desktop 2 environment. The lookup browse on the Filter field displays correctly, and you can now delete a filter criterion.
  - Additional master comment records have been added to clarify the e-mail for a profile activation event.
  - E-signature data has been corrected for category 0006, and PCC categories 0009 and 0010 have been added.
  - The Domain field can no longer be updated in E-Signature History Report (36.12.5). It displays the user's current working domain. In the same program, the lookup browse on the Category Code field now works correctly.
  - Activated E-Sig Profile Report (36.12.14.9) now correctly displays results when E-Signatures On is set to No and E-Signatures Off is set to Yes.
- Buffer-copy issues when running European Accounting with Enhanced Controls have been addressed. The affected programs are:
  - AR Payment Bank Reconciliation (27.6.5.7)
  - Draft Bank Reconciliation (27.6.6.17)
  - Recurring Voucher Release (28.8.4)

- Cash Book Maintenance (31.13)

Note In addition to these software updates, a new document is available to assist you in planning and implementing the Audit Trails portion of Enhanced Controls. QAD highly recommends that you consult this document prior to beginning an implementation. *Deployment Guide: Audit Trails* is located at the following URL:

http://support.qad.com/documentation/mfgpro/eb2_1/install.html

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.

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.

Enterprise Material Transfer

A new Allow Non-Ack Deletes field has been added to the Enterprise Material Transfer (EMT) frame of Sales Order Control (7.1.24). Use it to specify whether the primary business unit (PBU) can delete its primary sales order or individual order lines before importing an acknowledgment from the secondary business unit (SBU) when Require Acknowledgment is Yes in Purchasing Control (5.24).

No (the default): MFG/PRO displays an error message if you attempt to delete an unacknowledged order or line when Require Acknowledgment was set to Yes in Purchasing Control at the time the order was exported to the SBU.

Yes: You can delete unacknowledged orders or lines regardless of the Purchasing Control setting.

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 (the default) 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 No, the system does not re-create deleted locations and calculate inventory value for them.

Credit Card Processing

The Storefront module has been renamed Credit Cards 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
7.21.3	Credit Card Sales Order Browse	Storefront Sales Order Browse
7.21.24	Credit Card Control	Storefront Control

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.

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 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.

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.

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 for tax records for the current working domain. You can select either the default primary entity specified in Domain/Account Control (36.1) or the entity associated with the individual PO header site.

The new field supports environments in which the current working domain in 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.

Service Support Management

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).

EDI ECommerce

New Transmission Group Field

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.

Schedule Merge Enhancements

The schedule load merge functionality has been enhanced to let you define a range of requirement dates from the previous active schedule to be excluded from the merged schedule. You also can now specify the type of requirement records to be merged from the previous active schedule.

Use two new gateway variables, `ed_start_exc_ date` and `ed_end_exc_date`, to assign the range of dates to be excluded. Previously, the merge function provided only two date variables—`ed_start_cpy_date` and `ed_end_cpy_date`—to select the date range for merge.

Use a third new variable, `schedule_merge_fp`, to determine whether the system selects requirements records for merge depending on whether the requirements are firm or planned.

- When the variable value is F or P, the system only merges requirements that both meet the date range criteria and have a matching value in the forecast qualifier (Q) field in the schedule detail record.

- When the variable value is blank or B, the system merges requirements that meet the date range regardless of the forecast qualifier value. This was the system behavior before the variable was added.

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 2 Release Notes

Service Pack 2 for MFG/PRO eB2.1 includes all ECOs closed between May 25, 2004, and January 21, 2005. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Enhanced Controls

Two new features have been added to MFG/PRO eB2.1 to support customers who have regulatory or legal requirements in the area of user accountability, such as Food and Drug Administration 21 CFR Part 11 and the Sarbanes-Oxley Act. The programs that support these features are located on the Enhanced Controls menu (36.12).

See *User Guide: MFG/PRO eB2.1 New Features* for detailed information.

- You can configure your system to maintain audit trails. Audit trail records are created and stored in an MFG/PRO audit database. They contain facts about changes made in the MFG/PRO primary database. A typical audit record includes information that helps you identify who made a change, when the change was made, and what the change was. You can set up these functions for all MFG/PRO primary database tables or you can limit the audit trail recording activity to specific database tables.
- You can configure your system to require electronic signatures on some programs. Users of signature-enabled programs must enter a valid user ID and password before they can create or update records. Additionally, they must

provide a reason code that defines the meaning of the signature; for example, Approved or Tested. Reporting tools provide access to historical signature records to let you track updates to critical data.

Enhanced Controls is an optional module that is separately licensed and installed. You must have the appropriate license codes to activate it.

System Security

This service pack includes additional enhancements to security features.

Operating System Access to MFG/PRO

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 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 (36.3.1).

Subsequent processing depends on whether a password is specified in User Maintenance or User Password Maintenance (36.3.3):

- 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. In addition, in Windows environments it is not recommended that you reset MFG/PRO user passwords to blank. It is relatively easy to create a new user on an existing Windows machine with an ID that matches one in MFG/PRO.

Updating Security Control

Whenever a change is made in Security Control (36.3.24), the system now automatically generates an e-mail message to members of the administrator group specified in that program. The message lists the old and new values of each changed field as stored in the control record, as well as the user ID of the person who made the change.

Additionally, you can no longer change any data in the user control table (usrc_ctrl) from outside of MFG/PRO. For example, you cannot use the Progress Editor to update the record directly in the database.

Domain Field Restriction

To support ongoing development, the system now restricts the value of the Domain field in Domain Maintenance (36.10.1). The value can still be up to eight characters in length. However, it is now limited to the characters A–Z, a–z, and 0–9.

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 field 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.

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 on 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.

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.

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

AP Vouchers

The following enhancements have been made to Voucher Maintenance (28.1):

- The system 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, you could not reaccess a voucher created under those circumstances.
- When Enter Vouchers Confirmed is Yes in Accounts Payable Control (28.24), the system now updates the tax environment when you change the ship-to address on a voucher without an attached purchase order.

Previously, unless you updated the tax environment manually, the system did not recalculate taxes based on the new ship-to.

Additionally, 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 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.

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.

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 (SSM)

Deferred Revenue Contracts

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 eB2.1 take advantage of the deferred revenue enhancements added in MFG/PRO eB2.

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.

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.

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 Domain/Account Control (36.1), the specified date must be in an open GL calendar period.

EDI ECommerce

This service pack includes several enhancements to EDI ECommerce.

Product Transfer Import Gateway

A new inbound gateway has been added 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.

Gateway Processing Sequence

A new Gateway Process Priority field has been added to MFG/PRO Definition Maintenance (35.15.10).

ECommerce EMT Manager (35.22.13) uses the specified value to determine the relative order in which multiple EMT documents are processed at the primary business unit (PBU), secondary business unit (SBU), or tertiary business unit (TBU). Leave the field set to the default 0 (zero) to continue with the current functionality.

Note You can also use this feature to control the processing sequence of multiple document types in a non-EMT context.

Previously, ECommerce functions always processed documents in alphabetical sequence based on the Progress program names of the gateways. In some EMT scenarios, this could lead to errors; for example, the PBU's system might attempt to import an advance ship notice (ASN) before it imported the associated purchase order acknowledgement.

Note When the system loads standards-neutral format (SNF) files for processing based on the new sequence logic, it loads all files at the same time and then performs transformation and gateway processing. Previously, the system always loaded one SNF, transformed it, and did gateway processing before loading the next SNF.

Price Catalog Export

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.

Report Output Enhancement

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.

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 the EDI Schedules field 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.

Service Pack 1 Release Notes

Service Pack 1 for MFG/PRO eB2.1 includes all ECOs closed between January 23, 2004, and May 24, 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
3.4.1	Transfer–Single Item
3.4.3	Transfer With Lot/Serial Change
3.4.4	Batchload Transfer with Lot/Seri
3.7	Issues–Unplanned
3.12	Receipts–Backward Exploded
3.14	Cycle Count Results Entry
7.9.5	Pre-Shipper/Shipper Confirm
7.9.7	Pre-Shipper/Shipper Auto Confirm
7.9.21	Shipper Unconfirm
7.13.1	Pending Invoice Maintenance
7.18.22	Usage Create Undo
7.25.3	SO Batch Shipment Processor
10.5.13	Project Activity Recording
10.7.6	Material Order Shipments
11.1.1.13	Call Activity Recording
11.7.1.1	RMA Maintenance
11.7.1.16	RMA Shipments
12.15.20	Distributed Order Receipt

Menu	Menu Title
12.17.22	Distribution Order Shipments
16.10	Work Order Component Issue
16.12	Work Order Receipt Backflush
16.19	Work Order Operation Backflush
17.21.7	Flow Schedule Receipts
17.22.19.5	Kanban Fill/Receive
18.3.6	Repetitive Picklist Transfer
18.14	Repetitive Labor Transaction
18.16	Repetitive Rework Transaction
18.17	Repetitive Reject Transaction
18.22.3.6	Repetitive Picklist Transfer
18.22.5.11	Sub Shipper Issue
18.22.13	Backflush Transaction
18.22.17	Rework Transaction
18.22.19	Move Transaction
19.7	Quality Order Maintenance
19.11	Quality Order Results Entry

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]	CY99999999A
Czech Republic	CZ99999999 or CZ999999999 or CZ999999999
Estonia	EE999999999
Hungary	HU99999999
Latvia	LV99999999999
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, `utieup.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.

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.

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. 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.