Update Release Notes:
QAD Enterprise Applications 2014
Standard Edition

June 2014

Overview 2

QAD 2014 – Standard Edition 3

QAD 2013 – Standard Edition 4

QAD 2012 – Standard Edition 7

QAD 2011 – Standard Edition 10

QAD 2010 – Standard Edition 15

QAD 2009 – Standard Edition 24

QAD 2008.1 – Standard Edition 36

QAD 2008 – Standard Edition 43

QAD 2007.1 48

QAD 2007 (MFG/PRO eB2.1 Service Pack 5) 55

MFG/PRO eB2.1 Service Pack 4 58

MFG/PRO eB2.1 Service Pack 3 66

MFG/PRO eB2.1 Service Pack 2 74

MFG/PRO eB2.1 Service Pack 1 83

Overview

This document describes significant changes to product features introduced since MFG/PRO eB2.1 first became available. The document is cumulative. Review the release notes to understand how changes may affect your current implementation.

Note QAD has changed the name of the former MFG/PRO eB2.1 product to QAD Enterprise Applications – Standard Edition. The initial release each year is identified by year. If the year includes more than one release, subsequent versions are identified by a decimal number; for example, QAD 2008 – Standard Edition, and QAD 2008.1 – Standard Edition.

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 on the QAD Support Web site, http://support.qad.com. Choose the Tools tab, then select Product Changes.

To access the ECO listings, you must have a QAD Web account. You can register for an account on the Support Web site.

QAD 2014 – Standard Edition

This maintenance release includes all ECOs closed between May 20, 2013, and May 19, 2014.

Fixes

To view the ECOs included in QAD 2014 SE, see the QAD Support Web site, http://support.qad.com. Choose the Tools tab, then select Product Changes.

.NET UI Version

This release of Standard Edition is supported by the 2014 SE version of the QAD .NET UI.

For information about .NET UI application changes and fixes, see *Release Notes: QAD .NET User Interface.*

Progress 11

QAD 2014 SE includes support for Progress OpenEdge version 11.3.2.

If you are performing an update installation and upgrading from Progress 10 to 11.3.2, you must back up the existing environment and databases. These include the Tomcat webapps, QAD installation directories, databases, and so on. See *Update Installation Guide: QAD Standard Edition* for further information.

QAD 2013 – Standard Edition

This maintenance release includes all ECOs closed between May 21, 2012, and May 20, 2013. This section highlights a few changes introduced with ECOs that modify product features.

.NET UI Version

This release of Standard Edition is supported by the 2013 SE (2.9.6) version of the QAD .NET UI.

For information, see *Release Notes: QAD .NET User Interface.*

Process Maps Installation

QAD Process Maps 3.1 is now available from the QAD Store (http://store.qad.com) for use with QAD Standard Edition 2013. The process maps have been updated and redesigned to include the following:

- *Easy On Boarding (EOB) maps* — Many new maps for QAD Easy On Boarding are now included.
- *Integrated Customization Toolkit (ICT) maps* — Many new maps for QAD Integrated Customization Toolkit are now included.
- *New Color Scheme* — The new color scheme has designated colors for all the supply chain processes.
- *Enhanced Navigation* — The navigation structure was flattened, and the process map footer makes navigation from map to map easier.
- *Updated Vertical Maps* — The new version features eight updated vertical maps with more granularity than ever before.
- *New End-to-End Maps* — The high-level end-to-end maps Quote to Cash, Procure-to-Pay, and Plan to Perform were added.
- *Improved Supply Chain Process View* — The supply chain process view was enhanced with the new categories Design, Enable, and Engage.
- *Linkage to the Document Library* — Each node allows you to search the QAD Document Library with a click of a button to find relevant user guides, installation guides, or training guides.

Note The new, redesigned process maps are not included with the QAD .NET UI release media. Please visit the QAD Store to download the latest process map package.

Process Maps and Internet Explorer

Note the following when editing and viewing process maps in Internet Explorer:

- With Internet Explorer 8 and 9, Print Preview is not supported for process maps and they do not print correctly.
- By default, the Process Viewer uses Silverlight rather than SVG.
- The Process Editor uses SVG.

Important Internet Explorer 8 and 9 do not include the Adobe SVG plugin, which is required for using the QAD .NET UI's Process Editor. If using Internet Explorer 8 or 9, you will need to install the SVG plugin. If you have not installed the SVG plugin on your local machine, the Process Editor will display an error message when you try to edit a process map.

QAD includes the SVG plugin with QAD .NET UI in the client directory on the home server (in *HomeServerURL*`/client/SVGView.exe`) and includes it with the QAD .NET UI client when the client is installed. For example, you can find it here:
`C:\Program Files (x86)\QAD\QAD Enterprise Applications\SVGView.exe`

After installing SVG, restart the QAD .NET UI and open the Process Editor. After a moment, it will ask you to verify the use of SVG, and then you can proceed to use the Process Editor.

Integration of Kanban Transactions with Advanced Repetitive

Note This enhancement was introduced in QAD 2012 SE. However, it was omitted from the Release Notes for that version.

Kanban processing has been enhanced to support Advanced Repetitive reporting logic, allowing reporting against cumulative orders. Previously, these transactions were recorded using Unplanned Receipts logic. To continue using this method, leave the new Use Cumulative Order field set to No for the kanban loop in Kanban Master Maintenance (17.22.4).

When you use this feature for kanban process loops, Kanban Fill/Receive and Kanban Ship create the same kinds of inventory and GL transactions that Advanced Repetitive does. Additional fields in the transaction user interface allow you to enter actual runtime and determine whether the system backflushes the setup time specified for the routing.

The system uses the same logic as Advanced Repetitive to find an open cumulative order based on site, item, production line, routing, and BOM. If no order is found, the system creates one.

A difference is in the way that kanban identifies locations when backflushing components. Kanban bases the backflush location on the Location field in Kanban Process Maintenance (17.22.3). For the receipt location, it uses the Location field in the Kanban Transaction Control frame of Kanban Master Maintenance. (By default, Advanced Repetitive uses the work center or item master location during backflush.)

In addition to the new Use Cumulative Order field, an existing field in Kanban Master Maintenance has been relabeled as Backflush Components. It was previously labeled as Component/Op Transactions.

Basic prerequisites for using this functionality include:

1. Set up standard Advanced Repetitive data—items, routings, BOMs, production lines, and so on.
2. Associate the kanban item with the repetitive production line in Production Line Maintenance (18.22.1.1).
3. Optionally, associate the repetitive production line with kanban in Kanban Process Maintenance.
4. Enable repetitive reporting for the kanban loop by setting Use Cumulative Order to Yes in Kanban Master Maintenance.

Note Impact Inventory must also be Yes.

Revenue Recognition by Line Utility

Use a new SSM utility, Revenue Recognition by Line (11.5.18.25.2, `fssdefrl.p`), when a service contract line item (on a contract with multiple lines) must be canceled or corrected and revenue has already been recognized for the contract.

Using the new program prevents the system from incorrectly recognizing revenue on the other line items.

Previously, no program was available for recognizing revenue on individual contract lines.

Note This utility is not intended to be used for everyday business, but for cleaning up revenue records after a line has been canceled.

Additional New Fields

Fields have been added to some programs to enhance functionality or improve performance. New fields include:

- In Requisition Control (5.2.1.24), use Price by Requisition Line Due Date to specify how the requisition line pricing date is determined.

  Yes: Pricing is based on the requisition line due date (rqd_due_date).

  No: Pricing is based on the requisition date, which is found only in the header (rqm_req_date).
- In Work Order Receipt Backflush (16.12), use Auto Detail Allocate to have the system automatically allocate the shortage quantity of the component item.
- In functions throughout the system that post invoices, use Print ISB Details to control whether the system includes installed base information on the output report.

QAD 2012 – Standard Edition

This release includes all ECOs closed between May 23, 2011 and May 21, 2012. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

.NET UI Version

QAD 2012 Standard Edition is supported by version 2.9.4 of the QAD .NET UI.

For information see *Release Notes: QAD .NET User Interface.*

Known Issue

Installation of ECO Q5FC is mandatory for QAD 2012 Standard Edition. You can download the fix from the following location:

https://knowledgebase.qad.com/kmp/article/AA-67158

If this fix is not installed, receiving items using one of the following functions can cause an error if the receipt site is changed from the original work order site or production line site:

- Work Order Receipt (16.11)
- Work Order Receipt Backflush (16.12)
- Work Order Operation Backflush (16.19)
- Flow Schedule Receipts (17.21.7)
- Repetitive Labor Transaction (18.14)
- Backflush Transaction (18.22.13)
- Repetitive Rework Transaction (18.16)
- Rework Transaction (18.22.17)

In some instances, you may see a “mismatched parameter” error (mismatched number of parameters passed to routine .....).

However, in other instances, it is possible that no error will be displayed. Therefore, you must apply this fix to your QAD 2012 SE installation.

Extension of Transaction Number Field Length

To accommodate the requirements of customers who generate a large volume of inventory transactions, a QAD 2012 SE schema change increases the length of the Trans (tr_trnbr) field in the Inventory Transaction History (tr_hist) table from 8 characters to 10. The maximum value of that field is now 9999999999. The associated sequence definition has been updated to restart when the new maximum is exceeded.

Other fields that store the value from tr_trnbr have been similarly changed. The following table lists the fields that have been modified.

Field	Table	Field	Table
cctr_trnbr	cctr_hist	ieh_trnbr	ieh_hist
cncix_ship_trnbr	cncix_mstr	kbtrd_tr_trnbr	kbtrd_det

Field	Table	Field	Table
cncud_ship_trnbr	cncud_det	sbid_trnbr	sbid_det
cncu_trnbr	cncu_mstr	six_trnbr	six_ref
cnsix_receipt_trnbr	cnsix_mstr	trcs_trnbr	trcs_det
cnsud_receipt_trnbr	cnsud_det	trgl_trnbr	trgl_det
cnsu_trnbr	cnsu_mstr	tr_trnbr	tr_hist
ied_trnbr	ied_det	wlt_trnbr	wlt_mstr

Program changes throughout Standard Edition allow for this new field length in maintenance, processing, browse, reporting, and display functions.

Updating EDI eCommerce Document Definitions

If you use EDI eCommerce, you may need to adjust a value in your exchange and application document definitions to allow for the new transaction number field length.

In the document definitions, the user specifies the field name and the Maximum Size (in characters) that the value can be for the field. If the value being processed is greater in length than the maximum size specified, the document fails during processing.

Because the maximum value of tr_trnbr was 99999999, the maximum length value that is specified for this field in the document definitions is 8. With the new 10-character field (maximum value 99999999999), all EDI document definitions that include a maximum value of 8 for tr_trnbr must be increased to 10.

Database 64-bit Sequences

New databases created in 2012 SE using Progress 10.2B have 64-bit sequences enabled by default.

When upgrading to 2012 SE, MFG/UTIL determines whether 64-bit sequences are enabled for the database. If they are not, MFG/UTIL calls `proutil` to enable them.

New User Count Audit Tool

A new program delivered as standard product lets you generate sets of files used by QAD to verify compliance with license agreements. Previously, you had to download an external application from the QAD Web site to support this process.

Use User Count Audit Process Report (36.16.10.16) to create the needed files in a user-specified directory.

When you run the program, you also have options to:

- Archive historical audit data to an external file and delete it from your system.
- Delete the historical data without archiving it.
- Retain the historical data on your system.
- Clean up your system by deleting inactive user records that have never been used for login.

Additional New Fields

Fields have been added to some programs to enhance functionality or improve performance. These include:

- In Purchase Order Acknowledgement (35.4.5), the Include Invoiced field controls whether the system scans the Invoice History (ih_hist) table when selecting records for EDI eCommerce export. Setting the field to No (the default) can significantly improve program performance. You should change the field to Yes only if you send out PO acknowledgements *after* shipment.
- In Manual Ack Resolution (35.22.1), the Purchase Order field lets you manually confirm acknowledgements for a specified EMT purchase order that has not previously been acknowledged.
- In Call Generator (11.1.8), use the Update field to control whether the system generates calls immediately based on the selection criteria, or first creates a report that shows which calls will be generated.
- When sales order line tracking is enabled in Change Tracking Maintenance (36.2.22), Sales Order Maintenance (7.1.1) now displays Reason Code and Comments fields when you delete the entire sales order from the header level.

QAD 2011 – Standard Edition

This release includes all ECOs closed between June 11, 2010 and May 23, 2011. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

.NET UI Updates

QAD 2011 Standard Edition is supported by the new version 2.9.4 of the QAD .NET UI.

For information on this change as well as other .NET installation and application changes, see *Release Notes: QAD .NET User Interface.*

Enhancements to QAD Reporting Framework

The infrastructure that supports reporting from operational and financial functions has been improved in several areas.

Additional Report Output Formats

Previously, output formats for reports included only Document, Excel, and PDF. You can now also choose from the following additional output formats when a report is run:

- PDF Read-only — The report is rendered as a read-only PDF file. It has a random password that prevents tampering with the document.
- TIFF — The report is rendered as a Tagged Image File Format (TIFF) file.
- RTF — The report is rendered as a Rich Text Format (RTF) file.
- Plain Text — The report is rendered as a plain text (.txt) file.

The Document and PDF formats offer the highest display quality. Some images and colors may appear differently in some render types (for example, TIFF and RTF), and may not appear at all in others (for example, Plain Text).

C# Script Objects Added to Report Designer

.NET Script Objects make it possible to expand the functionality available in the report designer to go beyond VBScript logic. It is now possible to write custom C# (or any .NET language) classes and expose their public methods such that they can be invoked from within VBScript code blocks that execute during report rendering. This is a powerful capability that overcomes the many limitations of the VBScript language and the further limitations imposed by the report framework VBScript interpreter. Now any operation that can be written in a .NET language can be invoked dynamically by reports. This opens the door to performing file I/O, network calls, and custom data structures, for example.

Layout Selection

When running a report, you can now select which layout to use from the new Layout pull-down list if the report resource has multiple layout definitions.

Report Language Selection

Previously, the language that translations was done in for scheduled reports was the language of the server user ID specified in the command line arguments—not the language of the user who submitted the report. In this release, reports are in the language of the user who scheduled the report, regardless of the server user's language.

Report Output E-mail Attachments

For scheduled reports, you can now have a copy of the report automatically attached to the e-mail notification.

External Metadata for Data Source Programs

When developing a data source program as described in Appendix A of the *Reporting Framework User Guide*, you can now use an alternative to hard-coding the metadata. In this release, Appendix B of the user guide describes how to externalize the metadata in an XML file that gets loaded at runtime. This approach can greatly improve the ease and productivity of writing data source programs.

Scheduled Reports Printer Setup

Starting with the QAD .NET UI 2.9.2 (Enterprise Applications 2010.1 Enterprise Edition) release, printer setup for scheduled reports has changed. The Printer Setup Maintenance program is no longer used for the Reporting Framework. Instead, use the following steps to set up a printer for scheduled reports. If you are upgrading from an older version, any scheduled reports that refer to the previous printer types will still execute properly. However, the following steps must still be done to allow printers to be defined for new scheduled reports:

1. Set up a physical printer on the report server. From the Windows Start menu, select Control Panel|Printers and Faxes|Add a Printer to add a printer.
2. In the client session configuration file (`client-session.xml`), located in the *`TomcatInstallDir`*`/webapps/qadhome/configurations/`*`SysEnvName`*`/` directory, set up printers available for scheduled reports as follows:

```
<ReportServer>
<Printer>
<UNCPath>\\machineA\printerA</UNCPath>
<Description>Description of printer (optional)</Description>
</Printer>
<Printer>
<UNCPath>\\machineB\printerB</UNCPath>
<Description></Description>
</Printer>
</ReportServer>
```

Scheduled Report API

In addition to scheduling reports from the user interface, you can now use an API to schedule reports programmatically from Progress 4GL code. Contact QAD Support to get a sample bundle (`ScheduleReportSample.zip`) that gives instructions and the necessary supporting files to access this API.

Label Terms in Filter Names

When creating a report filter, the filter name can be a label term such as `${SALES_ORDERS}` so that the filter name will be translated.

Specifying Logical Value of Label Term

When designing reports, you can now specify to have the value rather than the label display for logical values and value lists:

`${TERM}V` — specifies the value rather than the label

Setting Default Report Filter in Report Viewer

You can now specify a default filter in the Report Viewer. When you click Open, the default filter is listed in bold. To change the default filter, click More and set a new default from the list by clicking on the default check box.

Number-to-Word Function Supports Polish Language

Previously, the script object function `QAD_NumberUtil.ToWords(number)` did not support the Polish language. This limitation has been fixed.

Running Reports with Enter Key

When running a report, you can now simply press the Enter key to run the report rather than clicking the Run button, thus allowing mouse-free operation.

Search Field Lookup Enhancements

When implementing a Progress data source program, fields appearing in the report search panel can optionally have a lookup specified. This is done by specifying the `LookupName` attribute in the field metadata (see Appendix A of the *Reporting Framework User Guide*). Previously, only the following possibilities were supported:

- *Non-Component Based Browses* — Any browse created by Browse Maintenance can be used as a search field lookup, where the `LookupName` attribute in the field metadata is the program name of the lookup program (if any) that will be invoked from the lookup icon.
- *Specifying Component-Based Financial Lookups* — When writing data source programs, you can specify component-based Financial lookups in the metadata as opposed to standard browse lookups.

Now, starting with this release, the following additional capabilities are also supported:

- *Passing Parameters to Lookups* — The lookup can also have parameters passed to it to dynamically change the behavior of the lookup. For example, a lookup of items may be defined to have a product line input parameter that would filter the item list according to the product line value passed in. The values that can be passed to lookups can either be hard-coded or obtained from values that the user has entered into any other search condition.
- *Specifying Conditional Lookups* — It is now possible have a search field lookup invoke a different browse depending on the user-selected value in a different search condition.

Multiple Return Values in Lookup Browses

Additional navigation has been added to Drill-Down/Lookup Maintenance (36.20.1) that lets you define browse field/frame field pairs so that a lookup browse can return more than one value to the screen when a browse record is selected.

Use the up and down arrows to display available browse fields for the specified procedure. Then, in Frame Field, enter the name of the field you want to populate in the program when you select a record from the browse.

You can use this feature to avoid selecting a value in one field, then being required to use additional lookups on subsequent fields to find the exact record you want. When you set up one or more field pairs for a browse field, the system automatically returns values for all specified fields when you select a row/record from the browse.

Declaration ID on Intrastat Inquiries

You can use the new Declaration ID field to determine the declaration ID associated with an Intrastat transaction. Previously, reporting functions did not include this information. The field has been added to the following inquiries:

- Intrastat Inquiry (2.22.14)
- Intrastat Inquiry by Invoice (2.22.15)
- Intrastat Inquiry by Supplier Invoice (2.22.16)
- Intrastat Inquiry by Order (2.22.17)

Declaration ID also displays in Intrastat Maintenance (2.22.13).

Reallocate Field in Container/Shipper Control

A new Reallocate field in Container/Shipper Control (7.9.24) lets you specify whether detail allocations are deleted for unshipped lines in Sales Order Shipments (7.9.15).

Yes: The system reallocates inventory and deletes detail allocations for unshipped lines.

No: The system does not reallocate inventory and leaves detail allocations for unshipped lines.

Note This new field is also available in Customer Schedules Control (7.3.24).

New Vertex Tax Setting in Work Code Maintenance

When you use Service and Support Management with the Vertex tax application, you can now apply taxes on labor and parts at the rate associated with the address record of the service provider without using the QAD SE Depot functionality. Previously, this method was used only when Depot functionality was enabled for the associated work code.

In Work Center Maintenance (11.2.1), set the new Tax at Repair Center field to Yes to use this new feature. When that field is No, the system applies the tax rate associated with the address record of the end user.

Important You should review your current work codes settings and adjust them as needed. To enable Depot functionality for a work code, set Repair Center to Yes. To calculate taxes based on the service provider's address record, also set Tax at Repair Center to Yes.

Cleanup of Stranded Requisition Records

A new Release Locked Requisitions utility (5.2.22, `utrqrel.p`) lets you clean up qad_wkfl records that are created when you run Build PO from Requisitions (5.2.18) and an unexpected system termination strands the records.

QAD 2010 – Standard Edition

This release includes all ECOs closed between June 12, 2009 and June 11, 2010. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

.NET UI Updates

QAD 2010 Standard Edition is supported by the new version 2.9.1 of the QAD .NET UI.

Among other changes, this .NET UI release includes a change to the way in which Assistance Panel content is delivered. In earlier versions, all language-specific Assistance Panel content was delivered on the .NET UI release media. For QAD 2010 Standard Edition, however, Assistance Panel content will be provided with the associated language-specific Standard Edition installation media.

For information on this change as well as other .NET installation and application changes, see *Release Notes: QAD .NET User Interface.*

QAD Reference Architecture

QAD 2010 Standard Edition introduces the QAD Reference Architecture (QRA), a library that standardizes the way APIs are exposed and called. QRA is automatically added to your configuration during QAD Standard Edition upgrade. Depending on your configuration, the presence of QRA may require that you reconfigure and rebuild the .NET UI following an upgrade.

New EDI eCommerce Features

This release includes several new EDI eCommerce features.

New Repository Collection

In the QAD .NET UI, you can now use Maintain eCommerce Repository Data to view and update EDI eCommerce repository and status records from a single workbench-style access point. Previously, you were required to look up cross-references between sequence numbers and view or maintain repository records from separate menu-level programs.

In the initial browse window, use standard .NET UI filtering functions to limit the selection of documents displayed by process date, status, document direction, trading partner ID, and several other criteria. Next, select a record from the main browse window. The system populates the Sequence ID field in each of the five associated programs (shown as tabs below the browse window) based on the selected record.

After selecting a record, you can use the workbench functions to:

- View status and processing messages in either the exchange or application repository. (In earlier versions, the application repository was called the MFG/PRO repository.) This is similar to the standard Exchange Doc Status Inquiry and Application Doc Status Inquiry programs, with some added functionality: You also can update the Passed/Failed status in either repository. Additionally, you can select an Ignore field, which makes the document unavailable for reprocessing through either the workbench Document Reprocess program or the menu-level Import Reprocessing/Export Reprocessing programs.

- Modify information in the associated exchange or application repository document. The two workbench repository maintenance programs are very similar to the menu-level Exchange Data Repository Maint and Application Data Repository Maint functions. The main difference is that the workbench programs display less read-only data because it is available in the main browse window.
- Reprocess the updated records in both repositories using values that you have updated in the other programs. This is similar to the menu-level Import Reprocessing and Export Reprocessing functions; the exception is that Document Reprocess only reprocesses the selected document. Note that reprocessing only takes place on the repository level. To re-import or re-export a file, use Document Import (35.1) or the appropriate program—based on the document type—from the Document Export menu (35.4).

New Sequence Number Functionality

The database sequences previously used to provide ID numbers for repository documents have been replaced by much more robust functions, which use existing Number Range Management (NRM) features.

The programs on the new eCommerce Number Range Menu (35.21) work the same way as those on the standard Number Range Menu (36.2.21), with one exception: the eCommerce programs manage sequence IDs in the eCommerce processing domain.

NRM sequences are more flexible than database sequences, which were significantly limited for customers with a very large volume of EDI transactions. In addition to supporting significantly longer number strings, NRM offers additional options such as a fixed segment at the beginning of the number to identify its type.

Note To support this new functionality, the repository sequence number data type was changed to Int64 to allow a larger number range. You must therefore update any user-defined functions in your configuration to change the data type of the tt_ht_seq variable in the temp table tt_ht from `integer` to `int64`.

Create sequence IDs in EC Number Range Maintenance (35.21.1), then reference them in control and trading partner records. New frames in eCommerce Control (35.17.24) let you specify default sequence IDs used to generate document numbers in the inbound and outbound exchange and application repositories. Another field lets you specify a sequence ID for generating documents with processing errors. Optionally, you can override those values in another new control frame, in which you define sequence IDs that are used for a specific application, such as JITS.

In Trading Partner Maintenance (35.13.7), you can optionally override the control program sequence IDs on the trading partner or trading partner document level.

When generating a number for a repository document, the system looks for a sequence ID in the following order:

1. The trading partner document definition in Trading Partner Maintenance
2. The main trading partner definition in Trading Partner Maintenance
3. The Application frame in eCommerce Control
4. The eCommerce Transaction Control frame in eCommerce Control

Enhanced Error Reporting and Handling

Several new fields have been added to the new eCommerce Transaction Control frame in eCommerce Control. They provide more flexibility in the way the system handles and reports errors during processing.

Three fields set defaults for new records in Trading Partner Maintenance. You can override these settings at the trading partner, trading partner document, and trading partner location cross-reference level:

- Suppress Warnings. Enter Yes to prevent the system from generating status messages that result from warning conditions during transformation or gateway processing.

  When this field is No (the default), the system always generates warnings in the status message table.
- Stop on Error. Enter Yes to have the system stop processing a document during transformation when the first error is encountered. The system skips the rest of the document and moves to the next sequence number.

  When this field is No (the default), processing continues regardless of the number of errors that occur.
- Suppress Session Report. Enter Yes to prevent the system from generating a session report following document load or unload.

  When this field is No (the default), the system always generates session reports.

In the new Send E-mail on Error Only, enter Yes to have the system send e-mail only when the document does not process successfully. Otherwise, e-mail is sent regardless of document status. This field defaults to new trading partner location cross-reference records defined in Trading Partner Maintenance.

eCommerce Control also now includes an E-mail Address field. Use it to enter the e-mail address of the person who receives a message when an error occurs during an import or export session.

Transformation Map Editing

New editing functions have been added to Transformation Definition Maintenance (35.15.17). You can now update transformation event records—along with several other related actions—without deleting and re-entering them.

The functions include:

- Edit Current Record. Use this option to update a transformation map event. You can change the event type, qualifier, target, source, and sequence. If the event action calls a function, you can reset the parameter values or change to a different function.
- Delete Block. In this option, specify a range of event sequence numbers to be deleted from the current record.
- Create Gap. Use this option to create a gap of a specified length in sequence numbers after the selected event and renumber the subsequent events. For example, if focus is on event action sequence 60 and you set the Create Gap Of field to 100, the system adds 100 to all the subsequent events in the current record. So, if the next sequence numbers were 70, 80, 90, the system would set the sequence numbers for the record to 60, 170, 180, 190, and so on.

- Renumber. This option performs the same function as Transformation Renumber Utility (35.17.3). The system prompts you for an Interval—the new starting sequence number for each record in the transformation map, as well as the increment between event sequences. For example, if you set Interval to 5, the system renumbers the events in each record as 5, 10, 15, 25, 35, and so on.
- Copy Block. Use this function to copy a specified range of event actions to the current transformation map or any other map in the system.

The new functions are available from all user interfaces:

- In QAD .NET UI, choose an option from the Actions menu.
- In the character and Windows UIs, use the appropriate keyboard shortcut:

Function	Character Shortcut	Windows Shortcut
Edit Current Record	Esc-e	Shift-e
Delete Block	Esc-d	Shift-d
Create Gap	Esc-g	Shift-g
Renumber	Esc-r	Shift-r
Copy Block	Esc-c	Shift-c

Document Definition Creation Program

You can use the new Create eCommerce Doc Definitions program (35.15.4) to:

- Copy an exchange file, application, or implementation definition to create one or more definitions of the same or another type.
- Create one or more document definitions based on:
  - A temp-table definition in Progress syntax from either Progress source code (.p or .i file) or a .txt file
  - An XML document (.xml file)
  - An XSD document (.xsd file)

Previously, you could only create definitions by loading a trading partner library entry, creating a definition record manually, or copying an existing definition to create another of the same type.

Additional Changes

- The Non-Printable ASCII Character field has been removed from eCommerce Control. This character, used during transformation to separate the table name from the field name, is no longer user configurable. The system now uses a fixed value of chr(2).
- Three print option defaults have been added to the initial frame of eCommerce Control. You can override the values when running reports.
- Three new fields have been added to Transmission Group Maintenance:
  - File Name Counter. Specify the sequence ID that is used to assign file names to files exported to this transmission group. This must be a valid sequence ID defined in EC Number Range Maintenance.
  - Capitalize Outbound Data. Enter Yes to convert the data in exported files for this transmission group into all capital letters.

  - Target Code Page. Specify the code page required by the receiving application for files sent to this transmission group. When creating the export file, the system converts the data as needed to match the specified code page.
- An optional Source Code Page field in eCommerce Control lets you specify the default code page used to import data into your system. During import processing, the system converts the data to the system code page. If you enter a value, it defaults to EC Subsystem Definition Maintenance. You can update it as needed for individual subsystems.

  Note Code page fields are not validated. The specified code page must be included in the Progress file `DLC/convmap.cp`. Otherwise, the conversion program returns an error.
- A new Application ID field has been added to allow for the separation of documents for viewing and reporting in the data repositories. Application ID is assigned in Trading Partner Maintenance. The available application IDs are EDI, EMT, DOM, SV, JITS, MEW, and FIN.
- Group and Document Group fields have been added to Trading Partner Maintenance. You can use them to associate the current trading partner or document with others for reporting purposes.
- Some user interface changes have been made to improve usability:
  - eCommerce Control has been reorganized for clarification. A new frame has been added to enter counters at the Application ID level.
  - Trading Partner Maintenance has been reworked to include additional frames. This provides space for more meaningful field labels.

New Programs

Table 1 lists the programs added to support EDI eCommerce enhancements.

Table 1
New Programs for EDI eCommerce

Menu	Label	Program
.NET only	Maintain eCommerce Repository Data	
35.15.4	Create eCommerce Doc Definitions	edcrdef.p
35.21	eCommerce Number Range Menu...	---
35.21.1	EC Number Range Maintenance	ednrsqmt.p
35.21.2	EC Sequence Browse	nrbr007.p
35.21.5	EC Sequence Number Maintenance	ednrnxmt.p
35.21.13	EC Sequence Number History Report	ednrsqrp.p
35.21.23	EC Sequence Delete/Archive	ednrsqup.p

Enhanced Kanban Workbench Functionality

Two new .NET kanban workbenches have been added to replace the functions of the HTML-based Kanban Workbench. Kanban Sizing Workbench and Kanban Process Workbench offer similar functionality while taking advantage of native .NET features to provide a much easier-to-use interface. Additionally, the new workbenches feature significantly improved performance.

Note Like Kanban Workbench, the new functions are available only through the QAD .NET UI—not other user interfaces.

The new workbenches include the following major improvements over Kanban Workbench:

- A Search frame lets you select records using flexible .NET UI filtering tools, instead of simply entering values in a fixed number of selection criteria fields. Additionally, you can filter on different criteria in each workbench, so record selection in Kanban Process Workbench is very specialized.
- After you set up filters, an alternative Navigation panel offers a tree-structure view of the available records. You can click on nodes to further refine the list shown in the grid.
- Like Kanban Workbench, the new workbenches offer the option of viewing and updating data in an Excel-style spreadsheet interface, but in a more efficient layout.
- Separate workbenches allow the loop sizing and process grids to be separated, making the width of the grid more manageable. In Kanban Workbench, process and sizing records were displayed in a continuous grid that required extensive horizontal scrolling to view or update.
  - The grid portion of Kanban Sizing Workbench includes only sizing data, although important process-related fields are still shown in the new tabbed frames.
  - Kanban Process Workbench divides process data into two separate grids, process and process-item detail. Additionally, the loop sizing grid is also available in that workbench—providing a complete picture for process items.
- The workbenches are more configurable. Although Kanban Workbench offered some configurability—for example, you could control whether individual columns displayed, as well as the sequence—the new workbenches take advantage of .NET features to allow much more flexibility. For example, you can drag-and-drop columns into position, or hide individual tabbed frames. Additionally, after you have set up a workbench in the way you like, you can save it. As needed, you can save multiple configurations under different names for reuse based on different situations.
- The new workbenches also display data in individual tabs, in which fields are grouped logically based on their functions. The layout of fields and frames is designed to indicate the relationships between calculated fields and source values. Note that the majority of grid fields display on the tabs. However, a limited number of values display only in the grid.

For the most part, the workbenches display the same data. Major differences are:

- The search criteria. In the Sizing workbench, you can search on several criteria related to kanban loops sourced by processes, exernal suppliers, or inventory supermarkets. The Process workbench provides search criteria to let you drill down to specific kanban processes.
- The information available in the grid. The Process workbench shows process, process-item, and loop sizing data for each process found by the search criteria. The Sizing workbench is limited to the same loop sizing data.
- The values you can update. For example, you can view process information related to a specific loop in the Sizing workbench for reference. However, since the process typically supports several loops, you must use the Process workbench to modify related values. When a field is modifiable in one workbench but not the other, the read-only version is shaded in gray.

Enhancements to QAD Reporting Framework

The infrastructure that supports reporting from operational and financial functions has been improved in several areas.

- The report template logic has been enhanced to support inheritance of top-level properties from templates, which is useful for scenarios where you want to control paper size and margins using a central template. For example, Letter paper reports can all be switched to A4 with one template change.
- Case-insensitive grouping is now supported.
- Group sections can now inherit template classes from other types of template sections. For example, a GroupHeader section can now inherit from a template PageHeader section class.
- The Report Resource Designer has been enhanced to allow metadata export, data export, and data import from a file. On the toolbar, choose Actions and click Export Metadata, Enable Data Export, or Enable Data Import. This feature is very useful for testing and troubleshooting. For instance, you can now supply test data from an XML file for testing without having to create the specific types of test data in the system database.
- For Label fields, the Reporting Framework can now intelligently select from short, medium, and long translated labels in the system. Alternatively, you can explicitly specify which type of label to use for a particular field, including stacked labels. The previous release of the Reporting Framework only supported long labels.
- You can now convert an integer in a calculated field into the words for that integer. For example, the integer 123 can be converted into the text string “one hundred and twenty three.” In the Properties window, when editing a field, add an `N` the Text setting. For example, change `${Sales Order}` to `${Sales Order}N`.
- You can now include the base currency on the report. To do so, in the Report Designer, in the Data tab’s Report Settings, click on the `sys_base_currency` parameter and include it anywhere on the report.
- Previously, logical values in reports were rendered as Yes or No rather than True or False. In this release, the reports now display the appropriate labels for the logical values as defined in the metadata. For example, the logical values will be True or False, or Debit or Credit, depending on what label is appropriate for the logical value.

Fixed Assets Enhancement

The Depreciation Adjustment frame of Fixed Asset Maintenance (32.3) lets you adjust the salvage value.

When you click the Adjust button to adjust a fixed asset depreciation book, you can now specify Salvage as the adjustment type, and the Adjustment Amount field lets you enter the salvage adjustment.

The Fixed Asset Maintenance, Depreciation Query frame displays any changes to the basis or salvage value. Fixed Asset Transaction Post (32.13) reflects salvage adjustments in the GL posting.

Modified Programs

Table 2 lists the modified fixed asset programs.

Table 2
Modified Programs for Fixed Assets

Menu	Label	Program
32.3	Fixed Asset Maintenance	fafamt.p
32.13	Fixed Asset Transaction Post	fapsmt.p

New Inventory Location Update Utility

You can use the new Inventory Location Update program (1.1.25.1, `utinloup.p`) to add a value to the Location field in Item-Site Inventory Data (1.4.16) if the field is empty. This will prevent a large number of “Location Does not Exist” errors.

Additional Enhancements

New Field in GL Report Writer Control

GL Report Writer Control (25.21.24) includes a new field, Display Acct with Zero Balance, that controls the display of accounts not used in transactions when you run your custom GL report using Run Report (25.21.17).

Restriction Removed on Custom Field Help Records

Field Help Maintenance (36.4.13.1) has been modified to remove the restriction on the length of a supplemental record you can enter to augment QAD-provided help records with your custom content.

Previously, the program prevented you from entering more than 15 lines of text.

Documentation Updates

Documentation-related changes in this release include:

- Content updates to reflect changes in the software.
- Reformatting of PDFs and printed documents. If you view or download PDF files from the Documentation area of support.qad.com, you will notice that the page format has been modified. Instead of the previous 7 by 9-inch page size, the documents are now sized to the width of standard A4 paper (about 8.25 inches) by 11 inches high.

  Because the new pages hold more content, the books now require significantly fewer pages. In addition, regardless of your location, the new page size lets you print PDFs on standard paper sizes (A4 or 8.5 by 11) without the large margins previously created by the smaller page size.
- Additional overview information. The summary list of topics at the beginning of user guide chapters now includes a brief description of each major topic.
- Structural changes in the user guide set:
  - A new volume, *Introduction to QAD Enterprise Applications*, has been added. It includes a brief overview of both editions (Standard and Enterprise), as well as QAD .NET UI and character UI information of interest to typical users. The new book also includes a glossary of terms used in the user guides and the product.
  - The contents of the *QAD User Interfaces* user guide have been redistributed into two new books:

  - The portions that apply to daily use of the .NET UI (as well as the discussion of the character UI) have been moved to the new *Introduction* volume.
  - Technical implementation and administrative aspects of the UI are now covered in the new *Administration Guide: QAD .NET UI*.
- A new *EDI eCommerce* user guide has been added. Its chapters were previously included in the *Release Management* user guide, which still provides information on Customer Schedules and Supplier Schedules.
- The *Distribution A* user guide is now simply called *Distribution*.
- The *Distribution B* user guide is now called *Consignment Inventory.*
- The *Financials A* user guide is now simply called *Financials*.
- The *Financials B* user guide is now called *Fixed Assets*.
- The *SSM A* and *SSM B* books have been renamed; they are now *SSM Part 1* and *SSM Part 2*.

- A new user-assistance tool. In addition to QAD Assist (F1 in the .NET UI) and context-sensitive field and procedure help (F2 in the character user interface and F1 in the Windows UI), a new Guide Me tool is available to .NET UI users. When you mouse-over most field labels in the system, a tool tip displays the initial portion of the field help record. A More link lets you display the entire record as needed.

  Additionally, users whose menu permissions let them access Field Help Maintenance can click an Edit link. This allows them to add supplemental information to the existing QAD-provided help records.

  Note The Guide Me feature is disabled by default. See *Administration Guide: QAD .NET UI* for information on enabling Guide Me functionality.

QAD 2009 – Standard Edition

This release includes all ECOs closed between November 7, 2008 and June 12, 2009. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

QAD Reporting Framework

This release of QAD Enterprise Applications introduces a brand new reporting framework with comprehensive tools that lets you easily create simple reports from multiple data sources, design complex or specialized reports, and customize the way you want to run your reports and send them to various output destinations.

Note Enhanced features available in QAD Reporting Framework are designed to work with the QAD .NET user interface.

Multiple Data Sources

The QAD Reporting Framework supports a range of data sources. You can extract data from Progress databases, browses, or through APIs for reporting purposes.

Powerful and Flexible Report Authoring

The QAD Reporting Framework offers you both simplicity and flexibility in creating your reports.

Built-in Report Wizard guides you step by step through building basic reports and completing common reporting tasks. Report Designer and Template Designer provide you with a rich set of report design tools to create more complex reports tailored to your specific requirements. Columns, groups, calculated fields, subreports, and formatting help make sense of data and uncover important relationships that might otherwise be hidden.

Multiple Output Formats

The flexibility of the QAD Reporting Framework does not end with creating reports. Your reports can be published to a variety of outputs including printer, PDF, and Excel files.

Report Scheduling

You can schedule the system to run your reports automatically at a certain time or at a specified interval and send scheduled report outputs to your desired destination, such as a printer or the QAD .NET UI document service on the report server. You can also have the system notify you that your scheduled reports have run.

Report Filters

When running a report, you can set filter criteria to filter data in the generated report. The filter criteria can be saved as your personal filter so that you can load the same set of filter conditions the next time you run the report.

New and Modified Functions

The following new functions have been added in this release.

Menu Number	Description	Program Name
36.4.21.5	Scheduled Report Maintenance	rprpsrmt.p
36.4.21.6	Scheduled Report Browse	rpbr018.p
36.4.21.7	Scheduled Report History Browse	rpbr019.p
36.4.21.23	Report Settings Restore	rprpstrt.p

The following functions have been modified.

Menu Number	Description	Program Name
36.4.21.1	Report Resource Maintenance	rprprsmt.p
36.4.21.2	Report Synchronization	rprpsync.p
36.4.21.3	Report Parameter Maintenance	rprpptmt.p
36.4.21.13	Admin User Filter Maintenance	rpuvmt01.p
36.4.21.14	Personal User Filter Maintenance	rpuvmt02.p

Service and Support Management (SSM)

Depot Order Functionality

SSM now includes the ability to handle depot orders (repairs). Typically a *depot order* is defined as activity that occurs in-house at the site of the manufacturer or distributor, rather than at the site of the end user. Repair activities that take place at the customer site are usually defined as constituting *field service repair.*

A depot order may require a replacement part to be sent to the customer before the damaged part is received in-house. A depot order also requires the defective part to be tracked when received in-house for repair from the customer.

As with any repair, the repaired items may or may not be covered by a warranty contract. Chargeable labor, material, and miscellaneous expenses may be incurred during evaluation and repair processes. Changes to installed base records must be recorded timely and accurately.

Depot Order Collection

You can use the new Depot Order collection in the QAD .NET UI to access programs that let you record and monitor depot orders as they progress through the system. Typically the collection will be used by employees who have a shop floor role, and customer service representatives when working with customers.

Note Collections are designed specifically for the QAD .NET UI. They do not work with other UIs.

The Depot Order collection consists of the following browses:

- Depot Order browse - Lists customer-returned items for repair or replacement. The browse displays the call/order ID, item number, end user, status, receipt date, shipment date, and so on. This browse drives the records displayed in the other browses listed below.

- Parts List browse - Displays parts list records, including item number, description, and quantity.
- Material Order browse - Displays material order-related information, including sold-to and order date information.
- Call Labor Recording browse - Displays labor activity-related information, including start and end time, engineer, work code, and service category.
- Depot Inventory Tracking browse - Displays inventory tracking information for the item, including unit of measure, lot/serial information, site, and transaction type (repair or replacement, receipt or shipment).

Functionally related programs are available by right-clicking entries in the browses. For example, right-clicking an entry in the Material Order browse allows you to launch the new Material Order ATP Inquiry using the currently selected record as the default. Depot order-related programs also display in the application menu.

Depot Order Maintenance

A new program, Depot Order Maintenance (11.1.2.1), has been created to enable the creation and maintenance of depot orders.

Important Depot orders cannot be created manually: a depot order is a service call that is associated with a work code that has its Repair Center field set to Yes.

The header frames of Depot Order Maintenance contain fields that display information defaulted from the call: call/order ID, sold-to, bill-to, name and address, and ship-to information. Other fields are used to record receipt and delivery data. By default, the system sets the Confirmed field to Yes to enable items to be shipped against this order; a Confirmed setting of No indicates that customer authorization for the repair has not yet been received. Other fields on the header contain tax environment, salesperson, and freight-related information.

When entering information about a specific line item, you indicate the repair type for the item (Repair or Replace). If Replace is selected, the system automatically generates a second depot order line with a repair type of Replacement.

You use the Item Repair Data frame to record information about the item repair; for example, if the repair type is Replacement, you can specify an alternate item ID. The alternate item ID would then be used by the system when a repaired end-item is returned to inventory (that is, restocked) rather than sent back to the customer. Restocked items often use an alternate item ID to indicate they are restocked, rather than new, items.

You also can use the Item Repair Data frame to record BOM code, routing, service type information, and pricing information. You can use either fixed pricing or time and materials pricing types.

Use the Item Receipt frame to record receipt information for the returned item: receipt date, quantity, site, and so on. The Item Shipment frame displays read-only information such as line, activity (Rpr Rcpt or Rpr Ship, for example), actual date of shipment, quantity, and so on. This shipment data is updated when the repair or replacement item is shipped out using sales order shipments or the workbench.

If a depot order line is identified as being a replacement repair type, an MO is created automatically for this line using the alternate item ID if one has been specified on the depot order;

otherwise the material order uses the item ID. The remainder of the information required to create the MO defaults from the depot order/call. The system uses existing credit checking functionality to ensure that the order does not exceed authorized credit limits.

Use the new Depot Order Browse (11.1.2.2) to view information about current depot order records, such as status of the call/call line, receipt, and shipment dates.

Call Parts Recording

The new Call Parts Recording (11.1.1.19) program allows parts to be issued/consumed from a parts list or parts to be returned that were consumed previously. For example, at the end of a repair call, an engineer can use Call Parts Recording to return items previously identified in error as being consumed in Call Activity Recording (CAR).

Returning the items reverses the original consumption activity and updates the quantity to return on the associated MO.

After entering the call ID and call line—these fields are populated automatically if Call Parts Recording is accessed from the Parts List browse—if a BOM is associated with the call line, you are given the option of exploding it. Exploding the BOM populates the item ID and quantity. If the BOM is associated with a labor routing, the system issues a warning that the BOM will not be exploded as part of the Call Parts Recording process (but will continue to be done in CAR).

After selecting the items to process, indicate the items consumed and the quantity to return. Optionally you can record details about the consumed items and the returned items by using the Item Usage Detail and Item Return Detail screens.

On exiting the screens, fault code information can be entered. The system prompts for the effective date and destination for the report output, and then processes the items.

The system handles items to consume like this:

- Selecting a quantity to consume for an item with a material order causes that MO line to be shipped and updates CAR with the consumption of the item.
- Selecting a quantity to consume for an item without an MO updates CAR with the consumption of the item.

The system handles items to return like this:

- Selecting a quantity to return for an item with an MO causes the item to be received back into inventory. CAR is updated to indicate the item is not consumed.
- Selecting a quantity to return for an item without an MO (on the parts list only) returns the item to inventory and updates CAR to indicate it is not consumed.

Call Labor Recording

To record labor for inspection and repairs against a depot order call, use the Call Labor Recording (11.1.1.17) program. Typically an engineer records labor after evaluating an item that has been returned by a customer, and then again later when repairs to the item are complete. Labor activity can be recorded by call/call line or effective date.

Labor activity for existing records can be modified as long as the record is not closed. You can modify duration, start time, and end time, but cannot change the date of an existing labor activity record. For example, the duration may need to be modified if it was overestimated and needs

correcting. A second line can be entered for the same Operation ID as the first line, using a negative value for the new line in the Duration field; the start time or end time must also be adjusted accordingly.

Note If the call labor record is associated with a call report that has already been invoiced, but the invoice has not yet been posted and printed, the system issues a warning that the invoice has been generated, and prompts you to continue to edit the call record. Responding Yes causes the Ready to Invoice field to be set to No in Call Invoice Recording (11.1.1.15).

Call Labor Recording does not support recording activity for service items. Instead, use Call Activity Recording (11.1.1.13).

Call Labor Recording is available from the Labor browse in the Depot Order collection and from the application menu.

Use the Call Labor Browse (11.1.1.18) to view existing call labor activity records.

Material Order ATP Inquiry

You can use the new Material Order ATP Inquiry (11.11.7) program to view available-to-promise (ATP) information associated with a specific material order and lines. Right-clicking a record in the Material Order browse causes the inquiry to run using the currently selected record.

Specifying a material order displays all unconfirmed material order lines whose due date is less than or equal to the date specified. If a material order line is not specified, all MO lines display. MO lines may be skipped if:

- No due date is specified for the MO line.
- Site security does not allow the current user to view the line.
- The line is an EMT part, a configured part, or ATP enforcement for the line is None.

The system generates a report to the output device you specify.

Material Order Control

A new field, Consume Shipped Lines, has been added to Material Order Control (11.11.24). This field is used in material order shipments to automatically consume the items that are shipped. The field defaults on the header from the control program.

The Consume Shipped Lines field has three possible values:

- Consume all Material Orders - Enables the automatic MO Shipment/CAR consumption for all material orders.
- Consume all Depot Material Orders - Enables the automatic MO Shipment/CAR consumption only for depot material orders. (These are orders associated with calls that have a work code with Repair Center set to Yes.)
- Do Not Auto Consume - Auto-consumption is not enabled.

Material Order Shipment

Several new fields have been added to Material Order Shipment (11.11.6) to enable the optional consumption of items that are shipped. This ability means you do not have to explicitly consume

MO parts in CAR. Consumption takes place against open calls only; if the call is complete or closed, no consumption will occur, even though the MO can be created and shipped.

The MO consumption report displays the details of the items consumed and any errors encountered during the consumption process. Any lines that remain unconsumed due to errors must be corrected and consumed within CAR. Transaction history is created for consumed lines.

The following fields are new:

- Consume - Set this field to Yes to cause the items to be consumed.
- Consume Shipped - This field on the line detail frame defaults from the field above. Set this field to Yes to cause this line to be consumed.
- Consumption Report Output - This field lets you specify the output option for the Consumption report.

Depot Item Restocking

You can use the new Depot Item Restock (11.1.2.4) program to restock inventory with items that were originally returned by customers, repaired in-house, and then restocked in refurbished inventory.

Restocked items may have a different item number to indicate that the item is a refurbished—as opposed to new—unit. You can give an item that will be restocked a different item number by entering a value in the Alternate Item Number field in Depot Order Maintenance.

Depot items must be received before they can be restocked. If required, you can update site information.

Only depot order lines that have a complete status can be restocked. The line selected is passed to the Receipts–Return to Stock (3.11) program. The installed base is updated to reflect that the item was restocked into inventory and removed from the customer’s installed base.

Depot Order Shipment

After the item is repaired and ready to ship, the existing sales order shipment and pre-shipper workbench screens are used to ship the item to the customer.

The shipment of the item is prevented if:

- The Confirmed field is set to No, indicating that the order has not been accepted by the customer.
- The shipment is on credit hold.
- The depot order line status is not complete. The order status can be set to Complete if there is an open material order. The order status cannot be set to Closed unless the material order is for a Replacement line.

The actual date of shipment records is updated. After the item ships, the invoice ISB is updated while printing and posting occurs.

Use the new Depot Inventory Tracking browse to review depot order, item ID and description, quantity and unit of measure, lot/serial number, end user ID, site (receipt or shipment, depending on the activity), location (receipt or shipment, depending on the activity), transaction type, and transaction date.

Depot Order Invoicing

A depot order line can be invoiced when the line status is complete and Ready to Invoice is set to Yes. Ready to Invoice cannot be set to Yes if any of the following apply:

- Open MOs are associated with the depot order (with the exception of MOs for a line that has had, or will have, a replacement part shipped out against it).
- An outstanding item receipt quantity is due from the customer for that depot order line (for example, a replacement unit was sent and the customer never returned their broken unit for repair, which was part of the agreement).

Customers must manually update the status of the depot order/order line to Closed.

As part of depot order invoicing, you can update the service type on the depot order line if no activity has been posted against the order/call, or if the order/call status is complete and is ready to invoice. The service type cannot be changed if the line has been either partially or fully invoiced.

The service type for a replacement item cannot be updated: it is read-only. This ensures that the service type of the replacement item matches the service type of its associated replace item.

If you change the service type, the system check to see if the inventory, work order, and service GL accounts associated with the new service type product line are different than those GL accounts associated with the old service type product line. If they are the same, no further processing is required. But if the GL accounts are different, the system:

- Reverses any associated WO or IC transactions already created for the call/call line.
- Creates new WO/IC transactions that use the product line inventory, WIP, and GL accounts associated with the updated service type.

  This ensures that the inventory history and GL transaction activity are synchronized and posted to the correct product line accounts.
- Reverses any other labor, item, or other expenses posted against the call in CAR that require reversing.

All transactions created after the service type is changed are posted to the GL accounts associated with the product line of the new service type.

The GL effective date for these reversing/correcting transactions defaults to the effective date for the original GL transaction; this date can be modified if required (or if the original GL posting period has been closed). The effective date for the reversing transaction defaults from the old effective date if the GL period is open; otherwise it defaults to the system date.

New Programs

Table 3 lists new Depot Order programs.

Table 3
New Programs for Depot Orders

Menu	Label	Program
11.1.1.17	Call Labor Recording	fsclrmt.p
11.1.1.18	Call Labor Browse	fsbr099.p
11.1.1.19	Call Parts Recording	fscprmt.p
11.1.2.1	Depot Order Maintenance	fsdomt.p

Menu	Label	Program
11.1.2.2	Depot Order Browse	fsbr098.p
11.1.2.3	Depot Inventory Tracking Browse	fsbr097.p
11.1.2.4	Depot Item Restock	fsdorstk.p
11.1.11	Parts List Browse	fsbr100.p
11.11.7	Material Order ATP Inquiry	fsatpiq.p

Contact Center Collection

The new Contact Center Collection in QAD .NET UI allows access to a variety of related SSM browses, reports, and functions that assist customer service representatives (CSRs) in executing their daily work. This collection actually consists of three separate collections: one each for Customers, Installed Base, and Calls. Together, these collections provide CSRs with a working environment that not only improves efficiency, but provides for a higher level of customer service by giving the CSRs the right information at their fingertips.

Note Collections are designed specifically for the QAD .NET UI. They do not work with other UIs.

The Customer Collection consists of the following:

- All Call Browse - Lists all of the open and closed calls for the selected customer
- Installed Base Browse - Lists the items in the customer's installed base
- Contract Browse - Displays customer contracts
- End User Move - Allows the movement of an installed base item from one end user to another end user
- End User Inquiry - Provides address information and credit data for selected end user
- Customer History Report - Provides an overview of the customer repair order history

The Installed Base Collection consists of the following:

- All Call Browse - Lists all of the open and closed calls for the selected item/serial number
- Installed Base Inquiry - Provides a quick listing of the installed base items for a selected end user
- Installed Base Item Tracking History - Provides a detailed listing of the transactions associated with a specific installed base item
- Installed Base View - Displays detailed information about the installed base end user

The Call Collection consists of the following:

- Call Detail Inquiry - Displays all of the details about a specific call in a view-only format
- Material Order Browse - Displays all of the material orders created for the selected call
- Call Print With History - Displays complete tracking of call status, assigned engineer, and problem identification throughout the call life cycle
- Call Labor Browse - Displays the repair labor activity that has been recorded against the call
- Parts List Browse - Displays the list of parts needed to complete the call repair

Functionally related programs are available by right-clicking entries in the browses. For example, right-clicking an entry in the All Call Browse allows you to launch Call Maintenance or Depot

Order Maintenance. Right-clicking on the Material Order Browse allows you to launch the new Material Order ATP Inquiry, or review the Material Order Shipment Report.

Invoice Post Utility

A new utility, Stranded Invoice qad_wkfl Delete (7.25.6, `utinvpst.p`), is now available to delete stranded QAD Work Table (qad_wkfl) records created when Invoice Post (7.13.4) is aborted abnormally.

You can run the program in simulation mode to identify the records that will be deleted. When update is Yes, the system deletes stranded records from the current domain.

1099-MISC Form

The 1099-MISC Magnetic Media Report (29.6.3.13.6) 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.

Lean Manufacturing

Use the new Stop Accumulator Monitor program (17.22.19.7) to gracefully stop Accumulator Monitor (17.22.19.6). Previously, you could only stop the process by terminating the user session that was running it.

EDI eCommerce

Trading Partner Library Load and Unload

Trading Partner Library Load (35.17.7) and Unload (35.17.8) have been enhanced to add flexibility to the way you can create and load sets of trading partner document records. These new tools extend the existing Trading Partner Document Load and Unload functions by generating and loading XML files that contain more comprehensive sets of trading partner documents and supporting records.

Unloading Records

Trading Partner Library Unload now generates one XML file containing all the trading partner setup data—in addition to the file definitions and transformation map—rather than 19 individual files with different file extensions. You can control which domains, trading partners, and trading partner documents are included in the exported files. The system creates one XML file for each document.

Note This program does not check or enforce data integrity. For example, you can choose to export document definitions but not the associated transformation definition.

This program is typically used by EDI system administrators to create source files that can be uploaded for submittal to the QAD Trading Partner Library. They can then be downloaded and used to create new sets of trading partner records using Trading Partner Library Load.

Use the first frame to select the documents that will be written to XML files. At three levels of granularity (domain, trading partner, trading partner document), you can either have the system export all the records, or manually select the records from a list by setting the associated field to Select Some. On each level, when you choose to select records manually, you can specify filter criteria to limit the items that are selected by default when the list is displayed.

From the selection list, use the space bar to toggle the Export field between Yes and No in the character UI. In the QAD .NET UI, use the check box to select records. When you finish selecting records at each level, press Go or click Next to move to the next selection field.

You also can specify which prefix the system adds to the exported XML files. When Use TP Domain as Source ID is Yes, the file name is in the form *domain name-trading partner ID-document ID*.xml. When the field is No, you can add your own prefix in the Source ID field; this replaces the domain name.

The program creates an activity log for each document in the specified dump directory. It shows the document definitions that were unloaded, a list of any non-QAD functions needed to support transformation, and any error messages that were generated during processing.

Additionally, if transformation processing calls for user-defined functions, the system attempts to find the program files in the Function Directory specified in eCommerce Control. If it finds the files, it includes the source code in the XML file. The functions can then be created during the load process.

Loading Records

Trading Partner Library Load now lets you load XML files created using the unload program.

Note The program still allows you to load records created using the old multiple-file method.

You can select individual trading partner documents from a list, or load all the documents in a specified directory at the same time. Source files are typically downloaded from the online QAD Trading Partner Library.

Optionally, you also can decide which specific components of the XML files have records created in the destination domain.

Note This program does not check or enforce data integrity for records you choose not to import. For example, you can choose to create document definitions but not the associated transformation definition. This does not cause the import process to generate an error message.

Use the first frame to identify the source directory for imported files, as well as the domain to which domain-specific types of records will be loaded. To select all documents in the directory, leave Import set to Select All. If you want to select from a list of documents in the specified directory, set Import to Select Some to display another frame when you press Go. When you finish selecting documents, press Go.

Note To select a single file, you also can press the up and down arrow keys with the cursor in the Import field. The system scrolls through all the documents in the specified directory. When the document you want to load displays, press Go.

Use the Components field to control which specific types records are created as a result of the load. When that field is Select All, the system loads all of the records from each selected XML file.

Set the field to Select Some to display a list of available record types. Deselect any types that you do not want to load.

You can also control whether the source ID (stored in the XML file when it was created using Trading Partner Library Unload) is used as part of the new record names. If you choose to use it, you can specify whether it appears as a prefix or as a suffix.

Subsequent frames display several types of information about the document currently being loaded. You can update many of the fields as needed. Note that navigation may vary depending on whether you choose not to create some types of records.

1. The system determines if cross-reference records exist for the specified target domain. You are prompted to create new cross-references if required. If no target domains are available, the system prompts you to select an existing eCommerce domain as the target.
2. Only when the target domain has not had eCommerce Control initialized, the next frame displays the fields from that program. You can update default values as needed; an additional field lets you specify the process log directory that will be associated with the newly created EC subsystem record.
   - If one of the fields includes a directory that does not exist, the system prompts you to create it. If you respond No, you can still enter the directory path and create it later in the file system.
   - When you load multiple documents during a single session, this frame displays only when the first document is loaded. Control settings apply to all the documents in the target domain.
3. For outbound definitions only, the system next displays Transmission Group Maintenance fields. If required, you can edit them, or change the Name field to associate a different existing transmission group with the trading partner. If you update the directory path or subsystem, the system validates the new values.
4. The system then displays the trading partner ID from the load data and prompts you to change it before proceeding.
5. The Trading Partner Document Records frame displays. As required, select a record to update TP location cross-references.
6. The program checks for any existing definitions that match the data being loaded and displays a list of duplicates, along with an Overwrite setting. If the trading partner definition is a duplicate, it is listed first, with Overwrite set to Yes. If you change the field to No, the system cancels the load process for this trading partner.

   All other duplicate records have Overwrite set to No. For each one that you change to Yes, the system displays information about where the existing record is used and prompts you to rename the new record, overwrite the existing record with the new definition, or keep the existing one.
7. The system prompts you to apply the update.
8. If the document references user-defined functions, the system compiles the code and saves the files in the function directory specified in eCommerce Control.
9. If multiple documents are selected for loading, the system repeats the load process for the next document on the list.

10 After you have completed all the documents, the system lists the files that were loaded. It also indicates whether any errors occurred. A log file called *filename*-import.log is created in the specified input directory.

New Update Utility

Update Token Variables (35.17.20) lets you update existing trading partner records with the most recent tokens. You can use this function as part of ongoing system maintenance when updates to the transformation engine modify or add tokens.

This program was previously not delivered with the product.

QAD 2008.1 – Standard Edition

This release includes all ECOs closed between February 21, 2008 and November 7, 2008. 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 (16.14), 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.

Component Availability Check Collections

Three new Component Check programs are embedded in browse collections in the QAD .NET UI environment:

- Component Check by WO/Production Line
- Component Check by WO/Work Center
- Component Check by Item/Work Order

The Component Check browse collections consist of the following:

- Work Order Browse lists selected work orders along with component shortage severity status. The WO component status that displays is the most severe component status found among the components. The browse is located at the top of the screen.
- Work Order Component Browse lists work order components for a particular work order. Each component listed has a component shortage severity status associated with it. The browse is located at the top of the screen.
- Work Order Component Details contains Supply/Demand Detail and Supply/Demand Summary. The browses are located at the bottom of the screen.
- Supporting Business Process Browses and Programs. The default Component Check browse collections contain other supporting browses and programs. For example, Schedule Maintenance is provided so that you can quickly access and modify a scheduled quantity if a material shortage exists. Net Change MRP is also provided so that you can view results once you change the schedule, make a net change, and explode a schedule.

Note Programs and browses in Component Check by Item/Work Order differ slightly.

The system calculates component availability for a work order component record by calculating projected quantity on hand (PQOH) using MRP supply and demand detail information. The calculation results display within the Work Order and Work Order Component Browses.

The following topics discuss features of each Component Check browse collection.

Component Check by WO/Production Line

Production schedulers can use Component Check by WO/Production Line to quickly determine if the production schedule is viable for the week, month, or any specified period. For repetitive production schedules, they can determine if there are material shortages, which components are short and by when, or whether you have enough supply coming in to meet future demand. Production schedulers can:

- View production schedule data by any combination of site; production line or operation; item, due, or release dates; quantity complete, open, or ordered; and more.
- View both planned and scheduled orders associated with a production line.
- Identify which repetitive orders have material shortages related to them.
- Identify the components causing the shortage related to a repetitive order.

Component Check by WO/Work Center

Production schedulers who need to quickly determine component availability for discrete work orders for a particular work center can use Component Check by WO/Work Center. For discrete work orders, they can:

- View work order/work center data by any combination of site; work center or operation; item; due or release date; quantity complete, open, or ordered; and more.
- Identify which discrete work orders have material shortages related to them.
- Identify the components causing the shortage related to a discrete order.
- Locate and determine the cause of material shortages.
- View both planned and scheduled orders associated with a primary production line.
- View in-transit supply in the form of ASN receipts.

Component Check by Item/Work Order

Materials planners can use Component Check by Item/Work Order to quickly identify the components they manage and determine if there are shortages that impact production. Material managers or expediters typically use this program to ensure that there are no component shortages for scheduled production orders. They can view a list of items and the jobs (work orders) that are impacted by item shortages. Having this information helps keep production running and expedites order processing. Material planners use Component Check by Item/Work Order to:

- Select from a wide range of item attributes to include in the component check, such as buyer/planner codes.
- Identify which items have component or material shortages related to them.
- Identify the work order to which the shortage is related.
- Locate and determine the cause of material shortages.

Product Structure

You can use the new Expired Component Delete function (13.25.1, `utpscdel.p`) to delete specific expired components from product structures. Previously, you could only delete an entire product structure using Product Structure Delete/Archive (13.23).

The new program lets you enter an item number as well a maximum expiration date for selecting records. Additionally, you can set Delete to No to review a report on the effects of the program before running it in update mode.

Lean Manufacturing

This release includes the following enhancements to the Kanban module:

- When you record a scrap quantity in Kanban Fill/Receive (17.22.19.5) or Kanban Ship (17.22.19.4), you can now enter a reason code set up in Reason Codes Maintenance (36.2.17) for type Scrap. A Multi field lets you enter additional reason codes.
- A new program, Kanban Quantity Audit Report (17.22.19.16), lets you identify loops with cards on which the recorded quantity does not equal the kanban quantity. You can specify a tolerance percent to limit the selection to cards where the difference exceeds a given threshold.

- Transaction Delete/Archive (17.22.19.23) has been modified to delete or archive Kanban Transaction Reject Detail (kbtrr_det) records when the associated Kanban Transaction History (kbtr_hist) records are deleted or archived.
- Several programs on the new Kanban Detail Maintenance Menu (17.22.22) let you directly access detail-level kanban setup information. Previously, you could maintain this information only by navigating through Kanban Master Maintenance (17.22.4) or Kanban Process Maintenance (17.22.3).

  An additional new program on that menu, Kanban Card By Kanban ID Detail, lets you access card information in the kanban master record based on an individual kanban card ID.

  The following table lists the new detail maintenance programs.

Menu	Menu Label	Program Name
17.22.22.1	KB Mstr - Supermarket Item Detail	kbmt01.p
17.22.22.2	KB Mstr - Accumulator Detail	kbmt02.p
17.22.22.3	KB Mstr - FIFO Lane Detail	kbmt04.p
17.22.22.5	Kanban Process Item Detail	kbpmt01.p
17.22.22.7	Kanban Card By Kanban ID Detail	kbmt03.p

- The way the system calculates per-piece costs for kanban controlled items has been revised. This change corrects a problem in the way setup costs were applied to individual kanbans and to the items produced against them.

  When multiple kanbans make up an order quantity for a kanban loop, there is only a single setup even though there will be multiple kanban fill transactions processed when the order is completed. In this situation, the single setup cost should be spread over all the authorized kanbans. If three kanbans make up the order or lot, one-third of the setup costs should be applied to each of the kanbans. In earlier versions of the system, the accounting logic applied the setup cost to each of the kanbans, substantially overstating the per-kanban cost as well as the per-piece cost for the item.

  The revised logic prorates the setup cost across the number of kanbans to calculate an accurate per-kanban cost. This is averaged over the number of units in the kanban to calculate the per-unit cost of the item produced.

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.

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.

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.

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)

Purchasing

New Reason Type

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 installation.

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.

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

Improved File Selection

In Document Import (35.1), you can use a new File Mask field and wild cards to specify one or more patterns (for example, *.gen) that file names must match to be selected. The system generates a list of matching files found in the EDI Inbound Directory specified in eCommerce Control (35.13.24), and you can make your final selection.

QAD 2008 – Standard Edition

This release includes all ECOs closed between July 27, 2007 and February 21, 2008. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Support for New Double-Byte Codepages

QAD 2008 - Standard Edition includes support for new double-byte Progress codepages for Simplified Chinese, Traditional Chinese, and Korean.

Language	Previous Codepage	New Codepage
Simplified Chinese	gb2312	cp936
Traditional Chinese	big-5	cp950
Korean	ksc5601	cp949

The new codepages include the character codes in the previous codepages and also include additional characters.

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.

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.

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 (7.9.4).

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.

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)
- Current Cost Set Move to Current Set (1.4.23)
- Current Cost Set Move to GL Set (1.4.22)
- 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.

EDI Customer Schedules

A new EDI Update RSS field has been added to the Non-Cumulative Accounting Data frame of Scheduled Order Maintenance (7.3.13).

When both this field and Merge RSS are Yes, the system updates the required ship schedule (RSS) after importing a ship schedule in Document Import (35.1).

Note The new field defaults to No. You can update it only when Merge RSS is Yes.

Previously, you could update the RSS using Required Ship Schedule Update (7.5.5) or Selective Req Ship Sched Update (7.5.6). However, depending on how frequently you run the import process, it is possible to miss some requirements when you do the update manually. Updating the RSS at the same time the schedule is imported and merged avoids this problem.

Lean Manufacturing

This release includes several updates to the lean manufacturing features of the Kanban module.

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.

Inventory Transactions

For loops supplied by a kanban process, Kanban Ship (17.22.19.4) and Kanban Fill/Receive (17.22.19.5) have been modified to record backflush and subcontract inventory transactions closer to where they occur in the workflow.

Note These changes only affect process loops on which Component/Op Transactions is Yes in Kanban Master Maintenance (17.22.4).

- When your business process uses Kanban Ship, backflush and subcontract inventory transactions for the operation range defined now take place when the card is shipped, instead of during fill/receive.
- Kanban Fill/Receive now looks at the status of the card to determine how much backflushing and subcontract work has been completed.
  - If all of the ship transactions were skipped, Kanban Fill/Receive does all of the backflushing and subcontract inventory transactions.
  - If some of the ship transactions have been done, but not all, Kanban Fill/Receive finishes where the ship transaction ended, and does the backflush and subcontract inventory transactions for the processes remaining to be done.
  - If all of the ship transactions were completed, Kanban Fill/Receive does not do any backflush or subcontract inventory transactions.

Example A process has one primary process, P1, and two FIFO processes, Fifo1 and Fifo2. With the new transaction processing, the workflow is as follows:

1. When P1 is shipped to Fifo1, all of the backflush and subcontract inventory transactions at P1 are recorded.
2. When Fifo1 is shipped to Fifo2, all of the backflush and subcontract inventory transactions at Fifo1 are recorded.
3. Fifo2 is skipped.
4. When the fill transaction is done, backflush and subcontract transactions are recorded for Fifo2 because it was skipped. (This step also does the receipt of the parent item.)

The release includes a conversion utility associated with this feature. See “Kanban Conversion Utilities” on page 47.

Scrap Recording

New fields have been added to Kanban Ship and Kanban Fill/Receive to let you record the actual quantity, rather than the kanban quantity. Previously, the system always used the kanban quantity even when some of the items were unacceptable for use.

To control this feature, a new Modify Inventory Data field has been added to the Kanban Transaction Control frame in Kanban Master Maintenance. The value on new loop records defaults from the same field in Kanban Control. When the field is Yes for a loop, Kanban Fill/Receive and Kanban Ship display editable fields for certain kinds of inventory data. Depending on the source of the loop (supplier, inventory, process) and the transaction, fields can include:

Quantity Accepted

Quantity Scrapped

Receipt Location

Issuing Location

The release includes a conversion utility associated with this feature. See “Kanban Conversion Utilities” on page 47.

Threshold Warnings

Another new feature lets you define a parameter that warns users about possible data-entry errors when they record cards.

Use the Modify Inv Threshold field in Kanban Maintenance to specify the maximum percentage of the kanban quantity that is considered an acceptable difference between the kanban quantity and the quantity actually recorded in Kanban Ship or Kanban Fill/Receive. This value defaults from Kanban Control.

When Modify Inventory Data is Yes and the user changes the quantity accepted from the default (the kanban quantity), the system calculates the difference as a percentage of the kanban quantity. If the percentage is equal to or greater than the specified threshold, a warning message displays so that the user can confirm the quantity entered is correct. The threshold logic also applies if you modify the Quantity Accepted field in a card maintenance function.

Note The system calculation is based on an absolute value, so the threshold applies to recorded quantities both greater than and less than the kanban quantity.

When Modify Inv Threshold is 0, the system does not validate the quantity entered.

Managing Shortfall

You can now manage cumulative shortfall quantities that result from scrap. Each time a card is received with a quantity different from the kanban quantity, the system updates the new Receipt Shortfall field in Kanban Master Maintenance.

- For over-receipts, the additional quantity is subtracted from the Receipt Shortfall total. The field can be negative, indicating that excess quantities have been received.
- For under-receipts, the quantity is added.

Note This field is updated automatically only when Modify Inv Data is Yes. Otherwise, the amount received is automatically set to the kanban quantity, so differences do not occur.

Use the new Option 7 (Processing Shortfall Option) in Kanban Card Management to manage shortfall quantities for selected loops. Options are:

Create (the default): When the shortfall value is greater than the kanban quantity, the system creates enough limited-use cards to make the remaining shortfall value less than the kanban quantity. For example, for a kanban quantity of 10 and a shortfall of 22, the system would create 2 new limited-use cards. It would then set the Receipt Shortfall field to 2 for the loop.

Zero All: Set the Receipt Shortfall field to 0 for all selected loops.

Zero Neg: Set the Receipt Shortfall field to 0 for all selected loops that currently have a negative value in that field. These are loops on which the cumulative quantity received is larger than the total kanban quantities of the received cards.

Kanban Conversion Utilities

After installing this release, you should run the following one-time conversion utilities to support new Kanban features:

- Reset Cards with SHIP Status (17.22.25.3, `uxkbcrds.p`). This utility finds cards in ship or in-fifo status, and records the inventory transactions that were skipped because the new functionality that moves backflush and subcontract transactions to Kanban Ship was not in place.
- Reset Card Quantity Accepted (17.22.25.5, `utkbcrd1.p`). This utility initializes the new Quantity Accepted field on existing card records and sets it equal to the kanban quantity.

QAD 2007.1

This release of QAD Enterprise Applications 2007 includes all ECOs closed between October 6, 2006, and July 27, 2007. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

Note This update is the equivalent of Service Pack 6.

Quality Management

Specification Functionality Change and Update Utility

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 Item Specification Menu (19.1) to identify updated records.
4. Manually modify the Number field in the appropriate maintenance program as needed.

Quality Order Report

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.

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.

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).

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.

Pitch Calculation

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 * 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.

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.

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.

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.

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.

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.

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.

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 Control Field

A new EMT Inbound Directory field has been added to ECommerce Control (35.17.24). When you use Enterprise Material Transfer (EMT), use this field to specify the directory where ECommerce EMT Manager (35.22.13) looks for source files when Import Files is Yes.

Previously, the import process used the same source directory (Inbound Directory) as Document Import (35.1). The new field lets EDI implementers separate EMT-specific import processes from other EDI imports.

To differentiate between the two directories, the Inbound Directory field in ECommerce Control has been relabeled EDI Inbound Directory.

Note You can leave EMT Inbound Directory blank. In that case, ECommerce EMT Manager continues to use EDI Inbound Directory as the source of imported files.

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 ECommerce, you must run this utility after installing the release update to avoid errors during document processing. See *Update Installation Guide: QAD Enterprise Applications 2007.1* for information.

Support for Advanced Reporting and Dashboards

You can use programs on the new Report Setup Menu (36.4.21) to support advanced reports and dashboards designed using the Cognos reporting tool. Additionally, several QAD-designed dashboards are available with QAD Business Intelligence 2.5.

Dashboards add an interactive element to reports. They let you:

- Drill up and down to see higher and lower levels of detail.
- Include multiple charts derived from different data sources in a single report.

Important Although the new setup menu is available in all user interfaces, you can only view the resulting reports and dashboards through the QAD .NET UI.

QAD-Provided Dashboards

If you have purchased QAD Business Intelligence 2.5 and the appropriate supporting elements, you can implement several QAD-provided dashboards. See *Technical Reference: QAD Business Intelligence 2.5* for detailed requirements and procedures.

Custom Reports and Dashboards

You can implement custom reports and dashboards in QAD 2007.1 without using QAD Business Intelligence, as long as you have installed the following components:

- QAD .NET UI, version 1.0 or higher
- QAD ReportNet Bundle 1.0
- Cognos 8.2

Use the following workflow to implement custom reports and dashboards.

1. Set up the QAD report server after installing Cognos 8.2.
2. Create reports and dashboards using Cognos Report Studio. See *User Guide: Cognos BI 8 Report Studio* for details.

3 Configure report settings and perform report synchronization using the new QAD 2007.1 menu programs:

   a Use Report Control (36.4.21.24) to configure report server settings and view or modify URL parameters.

   b Use Report Synchronization (36.4.21.2) to synchronize reports between the system and the report server.

   c Use Report Parameter Synchronization (36.4.21.4) to synchronize report parameters in the system with the report server.

4 Create menu entries for the new reports using Menu System Maintenance (36.4.4).

QAD 2007 (MFG/PRO eB2.1 Service Pack 5)

This release includes all ECOs closed between January 27, 2006, and October 6, 2006. A few significant changes introduced with ECOs that modify product features are highlighted in this section.

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.

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.

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.

Accounts Payable

This service pack includes the following enhancements to the Accounts Payable module.

AP Aging Reports

A new List Type field has been added to the selection criteria in AP Aging by Voucher Date Report (28.17.4), AP Aging by Due Date Report (28.17.5), and 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.

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.

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 Domain/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 Domain/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`.

MFG/PRO eB2.1 Service Pack 4

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 Vers, 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 Vers, 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.

MFG/PRO eB2.1 Service Pack 3

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.

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

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.

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.

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

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.

- 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.

MFG/PRO eB2.1 Service Pack 2

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

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

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).

- 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 (2.5.13)
- Salesperson Payments Report (2.5.16)

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 Schedule 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.

MFG/PRO eB2.1 Service Pack 1

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

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

Menu	Menu Title
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
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[a]	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

a. 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.