

# QAD Warehousing Release Notes

## September 2011

These release notes include information about QAD Warehousing for QAD 2011.1 Enterprise Edition (EE). These changes may affect the way you implement and use QAD Warehousing. Review this document before installing the new QAD Warehousing release.

QAD highly recommends that you implement the latest QAD Warehousing release available. Check the QAD Online Support Center to make sure you have the latest QAD Warehousing release notes, installation guide, and installation media:

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

Use the following list to find a specific release:

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# Release Notes for Current Release

**QAD Warehousing Version:** QAD Warehousing for QAD 2011.1 Enterprise Edition

**Release Date:** September 2011

**Supported languages:** US English, Castilian Spanish, Latin Spanish, Czech, Dutch, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazilian), Simplified Chinese, and Traditional Chinese

**User Guide:** *QAD Warehousing*, item 70-3185A

**Installation/Conversion Guide:** QAD Warehousing installation information can be found in the installation documentation for QAD Enterprise Applications 2011.1 Enterprise Edition.

**Note** The QAD Warehousing Enterprise Edition installation process differs from the QAD Warehousing Standard Edition (SE) installation process. Please review the installation and conversion guide before you begin installation or conversion.

## New Features Overview

QAD Warehousing was rebranded for QAD 2011.1 EE

## Fixes

The following improvements were made to QAD Warehousing for this release:

- QAD Warehousing programs were modified so that the system no longer has issues when scanning Serial Shipping Container Code (SSCC) numbers.
- The system no longer has issues when processing shipped stock that was left in dispatch area. Previously, when staff performed a repick across multiple pallets for a pre-shipper during batch picking, the system duplicated inventory.
- Movement Confirmation Workbench (4.8.7) no longer displays the `start date must be prior to end date` error message when setting up movement confirmation processing.
- Warehouse Order Detail Status Inquiry (4.15.4.1) no longer displays a blank Carrier field when you enter carrier data in the Shipvia field in Distribution Order Maintenance (12.17.14). Previously, when carrier data existed in Distribution Order Maintenance, Warehouse Order Detail Status Inquiry displayed no values in the Carrier field.
- A new Date Created field was added to Cycle Count Generation (4.18.12) to let you specify a date for cycle count transactions for the item/location that the system uses as criteria when selecting items/locations to count.
- The Prefix field in External Device Setup (4.23.22) now correctly processes symbols that you enter as barcode separators with scanned-in barcodes that comply with UCC/EAN-128 encoding standards. Previously, the system incorrectly processed some separators and did not properly display error messages when you entered invalid separators. Now, when the prefix does not match stored prefixes within the system in the `mfg_ctrl` table, the system displays one of two errors:
  - `Defined prefix not found in the barcode:` The prefix you entered is not defined in `mfc_ctrl`, and therefore, not available for use.
  - `Prefix does not match barcode:` The prefix for the barcode does not match prefix-barcode records in `mfc_ctrl`.

# Release Notes for March 2011 EE Release

**QAD Warehousing Version:** QAD Warehousing for QAD 2011 Enterprise Edition

**Release Date:** March 2011

**Supported languages:** US English, Castilian Spanish, Latin Spanish, Czech, Dutch, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazilian), Simplified Chinese, and Traditional Chinese

**User Guide:** *QAD Warehousing*, item 70-3115A

**Installation/Conversion Guide:** QAD Warehousing installation information can be found in the installation documentation for QAD Enterprise Applications 2011 Enterprise Edition.

**Note** The QAD Warehousing installation process differs from the Advanced Inventory Management (AIM) installation process. Please review the installation and conversion guide before you begin installation or conversion.

## New Features Overview

New features and enhancements for this release include the following:

- New Browse Collections
- New Menu Collections
- Enhanced Transaction Processing
- New Boost Program

The following topics describe the new enhancements.

## New Browse Collections

Several new .NET UI browse collections were added to QAD Warehousing. Like other .NET UI browse collections, a QAD Warehousing browse collection comprises a main browse and one or more supporting browses, or elements.

The data in the top portion drives the data in supporting browses of the main browse collection. So, for instance, if you are using the Manage Inbound ASN menu collection, which embeds the Inbound ASN Detail Browse, the selection you make in the top portion within Manage Inbound ASN drives the data you see in the bottom portion within Inbound ASN Detail browse.

When data displays in supporting element browses, an arrow displays in the row of data that relates to your selection in the main browse. This helps you trace back to the record for which you are reviewing data. The following lists the new browse collections.

**Table 1**

Warehousing Browse Collections

| <b>Browse Collection Name</b> | <b>Elements</b>   | <b>Location</b>              |
|-------------------------------|---|------------------------------|
| Manage Inbound ASN            | Inbound ASN Detail Browse   | Order Management Menu (4.13) |
| Manage Inspection Samples     | Inventory Inspection Detail Browse<br>Inventory Storage Detail Browse | Inspection Menu (4.19)       |

| Browse Collection Name | Elements                       | Location              |
|------------------------|--------------------------------|-----------------------|
| Manage Work Centers    | Work Order Operations          | Order Management Menu |
|                        | Put Away Transactions          |                       |
|                        | Inventory Detail by SLG Browse |                       |
|                        | Picking Transactions Browse    |                       |
| Manage Work Orders     | Work Order Bill Browse         | Order Management Menu |
|                        | Put Away Transactions Browse   |                       |
|                        | Picking Transactions Browse    |                       |
|                        | Inventory Detail by SLG Browse |                       |

## New Menu Collections

New .NET UI menu collections were added to this release of QAD Warehousing.

For some menu collections, such as Work Order Operations, you can export data in addition to viewing data. You can click the Actions button, then use the pull-down menu to export to a spreadsheet, PDF, or other forms of data.

You can also select the Setup button to activate the chart designer. Doing so lets you build spreadsheet-type charts (bar charts, pie charts, and so on) for the data that displays.

**Table 2**

Warehousing Menu Collections

| Menu Collection Name      | Elements                                    | Location         |
|---------------------------|---|------------------|
| Warehousing Manufacturing | Manage Work Orders Browse Collection        | Warehousing Menu |
|                           | Manage Work Centers Browse Collection       |                  |
| Warehousing Receipts      | Manage Inbound ASN Browse Collection        | Warehousing Menu |
|                           | Manage Inbound ASN Browse Collection        |                  |
|                           | Manage Inspection Samples Browse Collection |                  |
|                           | Put Away Transactions Browse                |                  |

## Enhanced Transaction Processing

Several new features were added to transaction processing within QAD Warehousing, including new:

- Browses and browse collections with added capabilities to process transactions, export data, build charts as well as easily view transaction data
- Transaction Detail Maintenance (4.8.15)
- Renamed reports
- Transaction Inquiry Menu (4.9.4)

The following topics describe the enhancements.

### Transaction-Related Browses and Browse Collections

You can use QAD Warehousing browses and browse collections in the .NET UI to help you monitor and view transaction data.

You can find the following browses by menu number and name:

- Transactions by Pre-Shipper Browse (4.9.9.1)

Lets you review all picking transactions linked to a pre-shipper.

- Transactions by Wave Browse (4.9.9.2)

Lets you review all picking and replenishment transactions linked to a wave.

- Put Away Transactions Browse (4.9.9.4)

Lets you review all put-away and cross-docking transactions in the system.

- Picking Transactions Browse (4.9.9.5)

Lets you review all picking transactions in the system.

- Transaction History Browse (4.9.9.13)

Lets you review all transactions already processed in the system.

The browses provide all tools required in a single tool to manage warehouses transactions. You can filter and sort transactions by their most widely used attributes, such as site, order, item, user, and so on.

Also, you can use actions within the browses to perform other operations, such as exporting or building charts from the data. When you select a transaction number in the browse collections, the system links other actions to the mouse so that you can easily execute the following programs for the selected transaction:

- Movement Confirmation and Inq (4.8.9)
- Transaction Maintenance (4.8.13)
- Transaction Detail Maintenance (4.8.15)
- Transaction Inquiry (4.9.1)
- Transaction Priority Boost (4.11.7)

### New Transaction Detail Maintenance

A new Transaction Detail Maintenance (4.8.15) function lets you view and edit details of a warehousing transaction. You select the transaction, then view details on type, expected and actual hours spent, from and to data such as the site, location, part, lot/serial number, and reference. You can also view from/to warehouse data such as the warehouse ID, SLG, WLG, and UM.

You can edit the current user, priority, processing code, task, increment, and the system code. You can also enable the transaction as a hard-assigned task. A hard-assigned task can only be performed by the user currently assigned to the task.

**Fig. 1**  
Transaction Detail Maintenance

The screenshot shows a window titled "Transaction Detail Maintenance" with a menu bar containing "Go To", "Actions", "Copy", "Print", and "Preview". The main content area displays transaction details for Tran: 1102, Expected: 1.0, Act: 0.0, and Type: PUT-TR. It is divided into two columns: FROM and TO. The FROM column lists Site: c36, Location: rec, Part: c36, Lot/Serial: (blank), and Reference: asd. The TO column lists Site: c36, Location: sto1, Part: c36, Lot/Serial: (blank), and Reference: asd. Below the columns, there are fields for Warehouse: c36, SLG: rec, WLG: c36, and UM: p4. At the bottom, there are edit fields for Current: (blank), Priority: 40, Proc Code: TF, Task: TRANSFER, Hard: , Increment: 10, System: RF, and Cmnts: .

## Renamed Transaction Reports

Two existing transaction reports were renamed and moved to the Reports menu (4.9) in this release:

**Table 3**

Renamed Transaction Reports

| <b>Old Name/Menu Number</b>           | <b>New Name/Menu Number</b>          |
|---------------------------------------|--------------------------------------|
| Transactions by WLG Report (4.9.11)   | Warehouse Transaction Report (4.9.6) |
| Trans History by Item Report (4.9.12) | Transaction History Report (4.9.7)   |

## New Transaction Inquiry Menu

A new Transaction Inquiry submenu was added to the Reports Menu (4.9). New and existing transaction-related inquiries were added to the new menu, as listed in the following table:

**Table 4**

Transaction Inquiry Menu (4.9.4)

| <b>Menu Number</b> | <b>Menu/Program</b>              | <b>Program Name</b> |
|--------------------|----------------------------------|---------------------|
| 4.9.4              | Transaction Inquiry Menu...      |                     |
| 4.9.4.1            | Transaction by Type Inquiry      | whtriq10.p          |
| 4.9.4.2            | Transactions by Item Inquiry     | whtriq01.p          |
| 4.9.4.3            | Transactions by Reference Inq    | whtriq08.p          |
| 4.9.4.4            | Transactions by Location Inquiry | whtriq04.p          |
| 4.9.4.5            | Transactions by To Location Inq  | whtriq05.p          |
| 4.9.4.6            | Transactions by Bulk Pick Inq    | whtriq02.p          |
| 4.9.4.7            | Transactions by Order Inquiry    | whtriq03.p          |

## New Boost Program

A new Transaction Priority Boost (4.11.7) boost program was added in this release. Use this program to boost the order and task priority of a transaction.

The new boost program and other existing boost programs were moved to the Labor Management Menu (4.11):

**Table 5**

Boost Programs in Labor Management

| <b>Menu Number</b> | <b>Inquiry</b>             | <b>Program</b> |
|--------------------|----------------------------|----------------|
| 4.11.7             | Transaction Priority Boost | whtrprbo.p     |
| 4.11.8             | Pre-Shipper Priority Boost | whwaprbo.p     |
| 4.11.9             | Wave Priority Boost        | whwaprbo.p     |
| 4.11.10            | Load Priority Boost        | whtmlldr.p     |

## Fixes

The following improvements were made to QAD Warehousing for this release:

- QAD Warehousing now correctly considers Item-Site Inventory Data Maint (1.4.16) values. Previously, the system did not take some values from this program into account; for example, when the item number had a site and location in Item Master Maintenance (1.4.1) that differed from Item-Site Inventory Data Maint, the system only used values from Item Master Maintenance.

- Pallet Build and Pallet Split functions now verify detail allocated inventory. Previously, when building a new pallet made of boxes, if those boxes were from a pre-shipper, the system did not verify whether inventory was detail allocated; subsequently, this broke the inventory structure and prevented pre-shipper changes.
- The system no longer uses customer item codes when scanning information on the external device. This caused issues as customers were not necessarily related to inventory items.
- All RF menu options now display correctly on the RF device. Previously, Item Inv Inq (5.1) and Address Inq (5.10) did not display on the RF device.
- The system no longer creates duplicated put-away transactions. Previously, the system created a duplicated put-away transaction for unplanned receipts, which caused the inventory to be transferred twice and created corrupt inventory. The duplicated put-away transaction was corrected.
- Wave numbers now display correctly in inquiries and reports. Previously, the system failed to pass the correct parameters to the server, causing Order Whse Detail Status Inquiry (4.15.4.1) and Wave Close Batch/Report (4.15.18) to not display expected wave numbers.
- Warehouse Transaction Inquiry (4.9.1) now displays the correct data during a DO receipt. Previously, when staff received a DO, the system created an RCT-DO transaction in QAD Warehousing; however, the transaction details, such as the receipt number and line number, were not correct.
- The RF Receipts (1.8) option now correctly receives ASNs.  
Previously, when you received an ASN with the RF Receipts (1.8) menu option, the system received only part of the ASN, causing the system to consider only the discrepancies between the ASN and the scanned records. Also, after the results display, the system now correctly returns to the Receipts frame and displays the correct data.
- RF inquiries now display correct screen titles when linking generalized code records to system procedure codes for the RF inquiries.
- Standard PO receipts on serial-controlled items now function without displaying errors.  
Previously, when you performed a PO receipt with serialized items, the system correctly generated serial numbers, then processed some line entry receipts, yet displayed errors for other line entry receipts.
- Pre-Shipper/Shipper Print (7.9.4) now performs correctly with QAD Warehousing. Previously, when the program looked for a task for the pre-shipper, it failed to find a TranD record for abs ID; therefore, the program presented a warning when it found a task.
- The system now correctly displays the Picking frame in Warehouse Maintenance (4.1.1) and Warehouse Control (4.1.24) in the .NET UI environment.
- The programs within the Bulk Picking module (4.14) now function correctly when processing kits.
- For Item-Whse Maintenance (4.4.11):
  - The system no longer displays the error `No PartWhseM record is available` when an item is not available in Item-Whse Maintenance (4.4.11).
  - The .NET UI now supports the Ref field in the Inspection Data frame. Previously, when you enabled the field by clicking on it, the system did not save your entry.
- The system no longer displays an error when you attempt to ship a DO with the RF device. This typically occurred after you generated a packing list and confirmed movements to the lane, then attempted to ship from the RF device.
- The missing field label in Address Warehouse Detail Maintenance (4.13.13) now displays.
- The system now correctly issues a receipt instead of inventory once you receive an SO previously shipped, remove inventory from the receiving area (an ISS-SO transaction), then receive the quantities back into the receiving area.

- When performing an RF kanban scan, the system no longer erroneously indicates that replenishment is complete when it is not possible to transfer a complete kanban quantity. Previously, system displayed the `REPL Complete` message when there was not enough stock to transfer the complete kanban quantity, but it was partially fulfilled.

# Release Notes for September 2010.1 Release

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**Release Date:** September 2010

**Supported languages:** US English, Castilian Spanish, Latin Spanish, Dutch, French, German, Italian, Japanese, Polish, Portuguese (Brazilian), Simplified Chinese, and Traditional Chinese

**User Guide:** *QAD Warehousing*, item 78-0890A

**Installation/Conversion Guide:** QAD Warehousing installation information can be found in the installation documentation for QAD Enterprise Applications 2010.1 Enterprise Edition.

**Note** The QAD Warehousing installation process differs from the Advanced Inventory Management (AIM) installation process. Please review the installation and conversion guide before you begin installation or conversion.

## New Features Overview

New features and enhancements for this release include the following:

- Warehouse staff can now use the RF device to receive messages sent to warehouse staff from QAD Warehousing users; see “Messages” on page 10.
- Warehouse supervisors or managers can now use alerts to notify warehouse staff of potential issues before they become critical or to send automated information to customers about their order or shipment; see “Alerts” on page 3.
- The RF Receipt functionality (1.8) was simplified and expanded so that it now handles a variety of receipt types and replaces the RF PO Receipt (1.8) function; see “New RF Receipt Functionality” on page 4.
- A new RF Shipment (1.9) option was added to handle a variety of shipping; see “New RF Shipping Functionality” on page 4.
- New inquiries were added to the RF Menu; see “New Inquiries” on page 5.
- The following control programs were added to Warehouse Control Table Report (4.23.24) so that you can display QAD Warehousing setup:
  - Location Forecast Control (4.3.19.24)
  - Order Management (4.13.24)
  - Quality/Inspection Control (4.19.24)
  - External Device Control

**Note** External Device Setup (4.23.22) provides control options.

- For Batch Picking Control (4.15.24):
  - A new Weight UM field was added. The Weight UM field lets you specify the unit of measure in which each transaction’s weight is calculated on the main batch picking selection screen.
  - A new Blank Reference field was added. The Blank Reference field lets you indicate whether the system retains the pallet reference number or blanks the reference number when RF users confirm a transaction when the Container/Reference field in Batch Picking Control is set to Container.
  - The Height field was removed.
- Two fields, Picking Type and Expire Date (Days), were moved from the Transaction Confirmation Defaults frame to the Picking frame in both Warehouse Maintenance (4.1.1) and Warehouse Control (4.1.24).

- A new Default Alternate Unit of Measure by Address field was added to Address Whse Detail Maint (4.13.13) that lets you enter a default alternate unit of measure by address as defined in Alternate Unit of Measure Maint. The system uses this field with the RF Receipts option to set the default alternate UM when warehouse staff scan a new pallet during a receipt.
- The Allow Lot Ref field was added to the Picking frame of Warehousing Maintenance (4.1.1). Setting this field to Yes lets you use QAD Warehousing and RF functionality to specify a different pallet or reference other than the one the system selected to fill an order.
- You can now add prefixes to the Order and Address fields in Barcode Prefix Maintenance (4.23.17). This program lets you define a one- to four-digit prefix for certain fields.

## Messages

Warehouse staff can use the RF device to receive messages sent to warehouse staff from QAD Warehousing users. Information in the messages and notifications can help warehouse staff:

- Avoid or resolve warehouse issues.
- Increase warehouse productivity.
- Eliminate timely communication that occurs during decision making by speeding reaction time.
- Using either a message or instruction to a given user or notification, warn of a potential issue.

Staff send messages from system terminals, using the Messaging Menu (4.22) in QAD Warehousing. The target message recipients can be valid QAD EE users on a single RF device or a group of RF devices. RF devices receive the messages and return a receipt notification of the message; however, RF users cannot send messages to QAD Warehousing. Once the system sends a message, the RF device displays a blinking or beeping asterisk in the right upper corner. This indicates that there is one message to read. The RF user can then use the F11 function key to read the message. Once the message is read, RF users mark it as read. QAD Warehousing users on a system terminal can then verify that the message was read.

Target messages sent to RF devices are defined by the following:

- Unique QAD user as defined in User Maintenance (36.3.1.)
- User group as defined in Warehouse Group Maintenance (4.11.3.5)

The system retains the messages for later review.

New programs within the Messaging Menu let you create, report on, delete, or archive the messages. They include:

- Whse Message Maintenance (4.22.1)
- Whse Message Browse (4.22.2)
- Whse Message Report (4.22.3)
- Whse Message Detail Inquiry (4.22.13)
- Whse Message Delete/Archive (4.22.23)

## Alerts

Alerts and messages are two different types of notifications. You create and send messages through QAD Warehousing programs in the Messaging Menu; however, you set up the sending of e-mails, which act as the alerts, outside of QAD software. Examples of alert notifications include the following:

- Wave, automatic, or kanban replenishment failure
- Shipment late, double, or short; receipt/sent; or verification
- Order change

- Low inventory levels
- Algorithm failure

Currently, three customizable alerts come with QAD Warehousing:

- Shipment notification (when item is sent)
- Task creation (when pick or short is created)
- Sample Inspection Fail (when an item is rejected from inspection area)

Users receive the alerts in their mailbox or at a QAD EE e-mail inbox. The RF device cannot receive alerts.

Users activate alerts by subscribing to them. Once a subscription exists, the system sends automated information to them. Recipients can be customers, suppliers, or warehouse staff.

### New RF Receipt Functionality

The RF PO Receipt (1.8) option was replaced with an expanded, easier-to-use receipt option. Using the RF device, warehouse staff can now perform a variety of receipts through the RF Receipt (1.8) option, including:

- Distribution order receipts
- Sales order returns
- Purchase order receipts
- ASN receipts
- Unplanned receipts
- RMA receipts

The RF Receipt option lets warehouse staff:

- Receive one or multiple pallets, with or without pallet IDs.
- Perform most types of receipts in a warehouse using the RF device.
- Choose the receiving location.
- Generate the relevant put-away tasks after the receipt.
- Handle multi-item and multi-lot pallets.

### New RF Shipping Functionality

Using just one RF shipment menu option (1.9), warehouse staff can now ship sales orders, distribution orders, and return material authorizations; or return a purchase order as well as perform an unplanned issue. These functions let staff ship when they do not have a pre-shipper.

**Note** QAD Warehousing still lets warehouse staff ship with a pre-shipper using the QAD Warehousing Ship Truck functions.

Functionality included in the RF shipment program includes:

- Ship one pallet to one customer in two different orders, the same pallet to different customers, or one pallet for two different orders.
- Ship the same pallet to different customers in the same process or transaction.
- Ship partial pallets or multi-item pallets.
- Ship from the storage location group with Allow Issue set to Yes in Storage Location Maintenance.

You can change the RF screen layout or set up different flavors of the RF shipment screen to accommodate changes among your various warehouses.

## New Inquiries

A new RF Inquiries menu (5) was added to the RF device software. RF users can view data in any of the following new inquiries, provided in the new menu:

**Table 6**  
RF Inquiry Programs

| Menu Number | Inquiry         | Description   |
|-------------|-----------------|---|
| 5.1         | Item Inv Inq    | Provides inventory data for a single, scanned item in location(s), including the item, location, quantity, reference, expected in/out quantities, and item description. If more data displays than can fit in the RF screen, users can use the arrow keys to scroll through the list. Two screens are presented, with the second screen displaying a list of locations in the warehousing having inventory (quantity) for this item.                            |
| 5.2         | Loc Inv Inq     | Provides inventory data for one scanned location. User can select an item present in this location and see details of each Lot/Ref, and expected in/out movements.  |
| 5.3         | Ref Inv Inq     | Provides inventory of a single, scanned reference. System presents a list of items (option 1) or locations (option 2) if the reference is multi-item or multi-location. User has ability to scroll through the items (option 1) or through the locations (option 2) and view details of the reference, including expected in/out movements. If there is more than one reference for the item, the user can scroll through different locations using arrow keys. |
| 5.4         | Lot Inv Inq     | Provides inventory data of a single scanned lot ID. System presents a list of items (option 1) or locations (option 2) if this lot is multi-item or multi-location. User has ability to scroll through the items (option 1) or through the locations (option 2) and see the details of this Lot, including expected in/out movements. If there is more than one lot for the item, users can scroll through different locations using arrow keys.                |
| 5.5         | Daily Prod      | Lets the user see his or her own daily productivity, including completed tasks, picks done, time by task, last location worked, current location working, and productivity time total.  |
| 5.6         | Preshipper Inq  | For a selected Pre-Shipper (scanned by user), the system provides the remaining opened tasks and information for each pending task.   |
| 5.7         | Item Master Inq | Provides basic date from Item Master Maintenance on the item scanned.   |
| 5.8         | Loc Master Inq  | Provides data about the location when RF users scan a location code, including the location ID, SLG, WLG, storage type, percentage full, and whether the location is functional or not.   |
| 5.9         | Sto Loc Gp Inq  | Provides data about the location when RF users scan an SLG, including the settings for these SLG-related fields: Allow Issues, Allow Receipts, Splittable, Pickable, Allow Incoming Receipt, Allow Outgoing Receipts, and Picking Level.  |
| 5.10        | Address Inq     | Provide address data when RF users scan an address bar code, including the address, type, name, city, state, post, country and priority.  |

## Fixes

The following improvements were made to QAD Warehousing for this release:

- Inspection History Maintenance (4.19.17) now displays the correct values for the Qty to Inspect and Return Qty fields when the system passes or rejects a sample inspection. Previously, the system displayed incorrect values in these fields.
- Transactions Detail Inquiry (3.21.1) no longer displays a transaction history record with a 0 (zero) quantity when you:
  - Complete a shipment using Sales Order Shipments (7.9.15).

- Enter a quantity of 0 (zero) at the line level.
- Set the Multi Entry field to Yes to enter quantities in multiple lots.
- Pre-Shipper/Shipper Workbench (7.9.2) no longer lets you delete the entire pre-shipper when you select an open transaction line, then invoke the Delete Pre-Shipper/Shipper Line function (Option 1 on the RF device) while working in the RF Batch Pick (3.1) function and lines are active and open. Previously, the system let you delete the entire pre-shipper.
- Purchase Order Receipts (5.13.1) no longer displays a Progress error during receipt of multiple pallets when you set the Multi Entry field to Yes.
- Replenishment Request (4.16.13) now replenishes the inventory in the base unit of measurement (UM) when:
  - You do not set the logistic UM as the base UM in Item-Warehouse Maintenance (4.4.11) for the item.
  - You set the sizing type of the base UM as blank in Alternate Unit of Measure Maint (4.5.1).
  - The location to be replenished is a dedicated mixed location.
- Work Order Release/Print (16.6) now overpicks the work order in multiples of the value you enter in the Pick Mult UM field and you set the Over Pick field to Yes in Storage Location Group Maint.(80.3.1). Previously, the system picked the work order quantity.
- Pallet Constitution/Transfer (4.17.20) now prints the identification label only when you set the Print ID field to Yes in Pallet Constitution/Transfer (4.17.20). Previously, the system printed the identification label even though you set Print ID to No.
- Movement Conf. By Transaction (4.8.1) no longer confirms transactions or displays an error while confirming transactions for a closed period. Previously, the system created unposted GL transactions in Unposted Transaction Register (25.13.14).
- Movement Conf. By Transaction (4.8.1) no longer creates negative inventory for a location having inventory status when you:
  - Set the Overissue field to No.
  - Confirm picking for a work order task after entering a cycle recount.
- Work Order Receipt (16.11) now receives a work order when:
  - The quantity is less than one.
  - The Lot/Serial field is blank.
  - You set the Multi Entry field to Yes for serial-controlled items.

Previously, the system displayed an error that indicated a lot/serial number was required, and the quantity must be -1 or 1.

- Unplanned Issue Request (4.17.13) now displays the correct available quantity and displays the No More message in the Remark field when:
  - The quantity of inventory you enter to be picked is more than the quantity available.
  - The Overissue field is set to No and the Overpick field set to Yes in Whse Transaction Type (4.7.5) for the location for the picked items.

# Release Notes for March 2010 Release

**QAD Warehousing Version:** QAD Warehousing for QAD 2010 Enterprise Edition

**Release Date:** March 2010

**Supported languages:** US English, Castilian Spanish, Latin Spanish, Dutch, French, German, Italian, Japanese, Polish, Portuguese (Brazilian), Simplified Chinese, and Traditional Chinese

**User Guide:** *QAD Warehousing*, item 78-0793A

**Installation/Conversion Guide:** QAD Warehousing installation information can be found in the installation documentation for QAD Enterprise Applications 2010 Enterprise Edition.

**Note** The QAD Warehousing installation process differs from the Advanced Inventory Management (AIM) installation process. Please review the installation and conversion guide before you begin installation or conversion.

## Fixes

The following improvements were made when processing with the RF device:

- Purchase Order Receipts (5.13.1) now performs inspections and moves the inventory from receipt location to the inspection location when you specify algorithm number 6 for QA algorithms for purchase order receipts as the Algorithm Type in Algorithm Assignment Maintenance (4.6.9). Previously, the system did not move inventory to the inspection location when you specified the algorithm.
- The batch picking function for sales orders in RF BP Pick SO /DO (3.1) option now updates the start date, start time, and start user ID when you press the End function after partially confirming a sales order quantity. Previously, the system left the values blank.
- Work Order Receipt (16.11) now moves the inventory to the correct destination location and creates a short SO transaction history as per the number of sequences in Internal Routing Maintenance (4.2.5) when you set the Two Phase field to No for the shortage internal routing. Previously, the system moved the inventory to an incorrect location.
- Picklist/Pre-Shipper-Automatic (7.9.1) now uses last-in-first-out (LIFO) picking for available inventory in locations with the LIFO picking type when you change inventory details to a reverse order in which the inventory was moved into the location. Previously, the system did not use LIFO picking in a reverse order.
- The RF Location Audit (1.4) option now displays an error message, indicating the period is closed when you change a quantity when the GL calendar period is closed for inventory control. Previously, the system did not display the error message.
- Put Away/Loc Find Simulation (4.6.13) now selects the proper location when you enter a lot/serial for which there is no existing inventory, but a location exists with inventory in another lot/serial for the item you are using in the simulation. The system does this when you specify the Merge with Same Lot/Serial-Preferred UM (PA96) algorithm in Algorithm Assignment Maintenance (4.6.9). Previously, when you specified the algorithm, the system selected the location with inventory with a different lot/serial for put-away.
- Distribution Order Shipments (12.17.22) no longer creates the new reference with a negative quantity when you set the original reference to blank using the RF Container Move (3.4) option and you change the quantity for which you are picking during distribution order shipment. Previously, the system created the new reference with a negative quantity.

- Sample Inspection Maintenance (4.22.1) now correctly changes the inventory status of the location to available when you change the location, lot, or reference of a non-inspected item when you confirm transactions during a receipt. You can also now confirm transactions. Previously, the system did not change inventory status to available after a successful inspection and did not let you confirm the transaction.
- Purchase Order Returns (5.13.7) no longer resets the Multi-Entry field to No when you set the field to Yes manually after you enter data in the Reason field. Previously, the system reset Multi-Entry to Yes once you entered data in the Reason field.
- The system no longer leaves modified values in records when you modify a transaction, then press Cancel or End using Movement Confirmation Workbench (4.8.7). Previously, the system left modified values, even though the values were not correct.
- When calculating the location full percentage:
  - The system no longer hangs.
  - The LocM record is now accessible and no longer locked by another process.
- RF functions now correctly clear the RF screen before you confirm a transaction. Previously, the system left data on the screen when you started a confirmation.
- The system uses data from the correct warehouse when you set up more than one warehouse for the same site in Wave Planning Control (4.15.1.24) when using wave planning functions and when the system calculates the pre-shipper. Previously, the system used data from the first warehouse instead of taking the data from the appropriate warehouse.
- The RF Transfer (1.3) option no longer transfers inventory to the destination location when you abort the transaction by pressing CTRL-C, and the system no longer locks records.
- For the RF Container Move (3.4) option:
  - The system now correctly validates the location detail record (lad\_det) for distribution orders when you use the RF Container Move (3.4) option.

**Note** QAD Warehousing has tasks that add fields to the location detail (lad\_det) record that indicate expected quantities in and out of warehouse locations.

- The system displays an appropriate message when the pallet does not belong to a pre-shipper during RF Container Move (3.4) functions.
- During RF Containerization (3.3) operations:
  - The system no longer locks records on the abs\_mstr.
  - Pre-shippers now display correctly.
- Incorrect message numbers no longer display during Transaction Priority Workbench (4.11.6) functions.
- For RF Select Task (1.2) option:
  - The system now functions correctly when you access a task that was started by another user.
  - You can now access soft-assigned tasks, assigned to another user.
  - Tasks are no longer locked. Previously, they displayed but you could not select them.

**Note** Tasks are no longer locked, yet displayed, when you use Select Task to select a pre-shipper using the RF or when you use BP Pick SO/DO or BP Pick-ALL for batch picking using the RF.

- The logic for the PIC-FAS transaction was changed so that it functions similar to the PICK-SO transaction. Kit picking uses the PICK-FAS transaction, not the PICK-SO transaction. Wave reports and inquiries display data for the PICK-FAS transactions just as for the PICK-SO transactions.

- Wave Selection (4.15.3) now correctly calculates and displays the net weight and number of lines for a multi-line sales order when you change the priority for one of the sales order lines from the default priority specified in Order Maintenance (4.1.3.1).
- Replenishment Request (4.16.13) now correctly replenishes the inventory in the base unit of measurement when:
  - Logistic UM is not the base unit of measurement specified in Item-Warehouse Maintenance (4.4.11) for the item.
  - Sizing type of the base unit of measurement is set as blank in Alternate Unit of Measure Maint (4.5.1).
  - Location to be replenished is a dedicated mixed-item location with capacity defined for each item.

Previously, the system did not replenish the item when these conditions existed.

- The system no longer deletes a requisition if it belongs to a pre-shipper or shipper when you manipulate pre-shippers or shippers. Previously, the system deleted requisitions for pre-shippers or shippers.
- Item Number Change (1.4.13) now copies the data to the new item from the old Warehousing item when you assign the warehouse master list as a location to the older item, using Item Master Maintenance (1.4.1). Previously, the system displayed an error, indicating the item number did not exist, when you assigned the master list to the older item.
- Triggers were merged for products that use common sales order and sales order line triggers to create the order.

# Release Notes for September 2009.1 Release

**QAD Warehousing Version:** QAD Warehousing for QAD 2009.1 Enterprise Edition

**Release Date:** September 2009

**Supported languages:** US English, Castilian Spanish, Latin Spanish, Dutch, French, German, Italian, Japanese, Polish, Portuguese (Brazilian), Simplified Chinese, and Traditional Chinese

**User Guide:** *QAD Warehousing*, item 78-0793A

**Installation/Conversion Guide:** QAD Warehousing installation information can be found in the installation documentation for QAD Enterprise Applications 2009 Enterprise Edition.

**Note** The QAD Warehousing installation process differs from the Advanced Inventory Management (AIM) installation process. Please review the installation and conversion guide before you begin installation or conversion.

## New Features Overview

New features and enhancements for this release include the following:

- A new Wave Pre-Shipper Workbench (4.15.14) lets you link pre-shippers to waves. When you enter a wave number in the workbench, the system displays all pre-shippers associated with the wave, including pre-shipper open tasks. You can press control keys in the display to perform several operations, such as display details; print, merge, or find pre-shippers; refresh the display; and sort by pre-shipper, ship-to site, carrier, or date.
- Wave planning now supports kits. New fields in Wave Planning Control (4.15.1.24) let you specify whether the system:
  - Applies pick logic and creates detailed inventory allocations for components of configured items.
  - Selects only configured kit sales order lines with a general allocation when it selects orders for a wave in Wave Selection (4.15.3).
  - Determines the component of the kit with the least quantity available to allocate. The quantity to ship for the kit item is set to this quantity, ensuring that complete kits are shipped.

The system now creates pick and wave replenishment tasks for kit components. During wave release and release group creation/activation, all appropriate algorithms and functions now support kits. Finally, wave inquiries and reports display data for kits.

- Wave Transportation programs (4.15.2) also support kits. Batch orders selected for TMS calculations now account for allocated kits. The system calculates weights and volumes for kit orders and exports them to the QAD EE internal transportation management system (TMS) or to external TMSs. When the TMS directs that order lines be split among different shipments, wave replenishment and release functions correctly pick for kit components after the split.
- You can now print labels created for a pallet in Multi-Item Pallet Create/Transfer (4.17.20).
- Receipts/Transfers/Issues Control (4.17.24) was moved to the Warehouse System Admin menu (4.23) and renamed External Device Setup (4.23.22). Two new fields were added to the renamed program:
  - Next Task Pause lets you specify the time in seconds that the RF device pauses during the RF Next Task (1.1) or RF Select Task (1.2) options when there are no open tasks.
  - Select Task Type lets you control whether the RF Select Task option is controlled by reference or by transactions.
- You can now choose to activate or deactivate the Quality/Inspection module (4.19) through a new Activate field in Quality/Inspection Control (4.19.24).

- The following new utilities were added:
  - Inspection Workfile Delete/Archive (4.25.10) deletes stranded inspection records.
  - Delete Planned Order Whse Tables (4.25.11) deletes warehouse order management detail records for planned orders that are unused by the system. If you installed QAD Patch R1GP, run this utility immediately after you install the patch.
  - Delete Task List Workfile Records (4.25.12) deletes inactive task list records. Previously, the system stored linked transaction-task or transaction-alternate task records in two tables. The system now creates records for both tasks and alternate tasks in a single table. You can use the utility to delete old records.
  - Recalculate User Task Times (4.25.13) recalculates user task times in batch mode. You must set the Active field in Labor Management Control (4.11.24) to No to manually recalculate user task times with the utility.
  - Populate Item-Site Location (4.25.14) repopulates the Item-Site Maintenance (4.4.9) Location field with data from the removed Site Location field from the same program.
  - A new Next Task Pause field in the renamed External Device Setup program lets you specify the time in seconds that the RF device pauses during RF Next Task (1.1) or RF Select Task (1.2) if there are no open task. Before it was hard coded to 10. In the same program, you can now specify whether the RF Select Task (1.2) is driven by transaction or reference through a new Select Task Type field.

## Program Name Changes

The following program was renamed in this release.

**Table 7** Renamed Programs

| Old Name/Number                             | New Name/Number                 |
|---|---------------------------------|
| Receipts/Transfers/Issues Control (4.17.24) | External Device Setup (4.23.22) |

## Fixes

- The following improvements were made when processing with the RF device:
  - You can now use the Cancel or Exit operation when the cursor is in a To field when confirming tasks on the RF device. Previously, you had to press CTRL-C to cancel or exit when in the To field.
  - All scannable fields in QAD Warehousing that display on the RF device are now 64 characters long, letting warehousing staff scan SSCC or EAN labels. Previously, some fields were limited to 12 or 28 characters.
  - When you select a task by transaction number on the RF device, the logic was improved to match the same logic as if you selected a task by reference number.
  - The system now validates that the destination is not the same as the original location when it creates new warehousing transactions for the put-away (PUT-TR), on-the-fly (OTF-TR) and the location transfer (LOC-TR) transactions. Previously, when the original and destination locations were the same, the system recalculated the destination location.
  - The standard RF flavor selection logic was changed so that when the system is dealing with a transaction that has no reference, it automatically changes the RF flavor to A if the user originally selected flavor B to select by reference. You specify flavor codes in the Flavor field in Work Location Group Maintenance (4.3.9).
  - Kanban replenishment now works correctly on the RF device:

- Warehouse staff can now repick for kanban replenishment tasks as the system no longer deletes records once the original task was created.
- The system no longer overwrites the destination location and selects another location for the internal routing when you select the destination location during transfer and PUT-TR transactions.
- RF kanban functionality now checks for relevant item inventory data records prior to creating kanban transactions. Previously, the system did not check item inventory data records and therefore, it maintained information for kanban items at the item/site level only.
- The RF Select Task (1.1) and Pre-Shipper Select Task (1.7) options:
  - Now correctly sorts priorities.
  - No longer hard assigns users to transactions.
- During RF Next Task (1.1) and Select Task (1.2) operations, the system now validates the inventory status of the From and To location for the reference being scanned. The system now displays a warning when either location is not valid. The RF Select Task (1.2) option now displays pallets on the RF device as warehouse staff scan them.
- The RF Transfer (1.3) option:
  - Now takes inventory from the correct From location when the system creates more than one put-away task when the transfer exceeds a single location capacity.
  - Lets you enter a storage location group as the destination location.
  - Correctly verifies that the destination location is a single location.
  - Correctly verifies pallet items, not just the first item of the pallet, when using multi-item pallets in a single location.
  - Correctly displays the values for item, lot/serial, reference while transferring an item from location to location.
  - Includes Session ID enhancements so that labor-reporting functions now consider task times if more than one put-away (PA) task is created.
  - Includes description changes for the OTF\_TRANSFER label to reflect RF transfer.
- The RF Location Audit (1.4) option:
  - Now correctly changes an item's status from Fail to Available when a cycle count completes for an item with a quantity equal to the quantity available. Previously, the status remained as Fail during these circumstances.
  - No longer lets you enter undefined units of measure (UMs) and displays an error message when you do. Previously, the system accepted the undefined UM and created a transaction.
- The RF Kanban Scan option (1.5) no longer displays an error when you change the reference for items to be picked and lets you exit the option. Previously, the system displayed an error and you could not exit.
- The RF PO Receipt (1.8) option:
  - No longer locks TranD table records when you process receipts.
  - Now correctly displays the destination location frame when you use the put-away (PA) algorithm.
- The RF Reprint (2.2) option now correctly reprints the transaction detail for a transaction number from Warehouse Transaction Inquiry (4.9.1) when you set the Transaction type field to I.
- The RF Container Move (3.4) option:
  - Now has check digit functionality implemented correctly. Previously, the system never prompted for a To location and neither prompted nor validated the check digit location.

- No longer displays an error message, and the system correctly moves inventory for a container move to the destination location when multiple sequences of internal routing groups exist in Internal Routing Maintenance (4.2.5).
- Now prompts for a location when you work with references and the pallet reference cannot be found on the last external location.
- Movement Conf. Workbench (4.8.7) now correctly denies receipt of a new item on a single-item location when other item inventory exists at the location. Previously, users could receive new items on a single-item location.
- Storage Location Group Maint (4.3.1) now lets you simultaneously view and modify all fields in the Storage Location Derail frame. Previously, you had to press Go twice to both modify and view data in the fields.
- Sales Order Manual Allocations now correctly deletes AIM transactions when you delete the allocation line. Previously, the system did not delete the transaction.
- PO Shipper Maintenance (5.13.14) now correctly creates references for a PO and sets the Multi-Entry flag to Yes. Previously, the system did not generate references and set the Multi-Entry field to No.
- Trans Det by Pre-Shipper Inquiry (4.9.21) now correctly displays picking tasks for kits that are a part of a pre-shipper.
- Put Away/Loc Find Simulation (4.6.13) no longer deletes the results frame.
- Warehouse Transaction Inquiry (4.9.1) now refreshes the shipper ID in the Other Details frame when you view a transaction with a blank shipper ID after viewing transactions with a non-blank shipper ID.
- User-Work Location Group Maint (4.11.19.1), User Printer Maintenance (4.21.9), and User-Work Location Group Maint (4.11.3.13) now let you enter data for the Inspection Printer and Use External fields. Previously, you could not enter data in these fields.
- The system now creates a pre-shipper during distribution order (DO) and normal picking for orders that use pre-shippers and no longer displays an error message.
- The system now correctly creates transactions when you set the GL Correction field to Yes in Purchase Order Returns (5.13.7).
- The system no longer locks records when you run RF device programs or when you run PO Shipper Receipt (5.13.20).
- The system now functions correctly during picking using the switch lot/serial and reference functionality.
- The system now prompts for the destination location, processes tasks, and no longer displays an error when you confirm tasks with a quantity of 0 (zero).
- The auto-wave release function was improved:
  - The TranD and WaveMasterM tables no longer lock.
  - When auto-wave release is active, the system no longer replenishes for different items other than the ones being processed.
  - General checking on tasks to replenish were removed and replaced with checking on the pallet being replenished.
- You can now edit the lane assigned through Lane Group Assignment (4.15.1.13). The system verifies that the lane exists only if it is not previously assigned to a lane group. It also validates the lane group when you enter a lane group. The system now displays a warning, not an error, when you select a lane group that is not assigned to an item type.
- Wave Selection (4.15.3) now lets you select unallocated scheduled orders in the wave, regardless of the setting of the Display Only Allocated Lines field in Wave Planning Control (4.15.1.24). Previously, the system did not let you select unallocated scheduled orders in a wave selection.

- Wave Status Inquiry (4.15.4.3) now correctly displays the total task count for reserve, replenishment, and picking tasks when you delete an unconfirmed pre-shipper that has an open task and the wave is released through Wave Release (4.15.5).
- Wave Replenishment (4.15.6) now correctly sets the status of the wave when you replenish a released wave.
- The system now activates tasks from Wave Release (4.15.8) when you run another instance of either Wave Replenishment (4.15.6) or Wave Release previous to activating the Wave Release tasks. Also, the system no longer locks tasks when you run the auto-wave release function when another user runs the RF Next Task (1.1) or RF Select Task (1.2) option for the same wave.
- Multi-Item Pallet Create/Transfer (4.17.20):
  - No longer contains pause statements that prevent normal operation within the .NET UI.
  - Now causes Logistic Palletization/Transfer (4.17.17) to correctly create tasks for pallets from the remaining quantities resulting from Multi-Item Pallet/Create Transfer operations.
- Wave Task Inquiry (4.15.4.8), Wave Priority Boost (4.15.15), and Load Priority Boost (4.15.2.20) now consider wave replenishment date and time. Previously, wave date and time were not taken into account causing the system to search for replenishment tasks for items in a wave not linked to replenishment.
- Order Detail Status Inquiry (4.15.9) no longer displays a Progress error when you select the P option and correctly displays order detail lines when you select the D(etail) option.
- Unplanned Issue Request (4.17.13) now correctly updates the Qty to pick and the Remark fields, indicating No More when the entered inventory quantity to pick is more than the quantity available and the inventory location from where the quantity is picked has a status set to over-issue.
- Obsolete functionality that let you skip prefix processing by setting OS values in the start-up script has been removed.
- Purchase Order Receipts (5.13.1) now correctly:
  - Picks and validates the inspection location that you define in Whse Master List Maintenance (4.1.5) for a RCT-PO transaction
  - Sets the Multi-Entry field to Yes which generates pallet reference numbers when the Inspection field is Yes for an item defined in Item Data Maintenance (1.4.1)
- Labor Management (4.11) programs now correctly function with alternate tasks. Previously, the system did not consider TranD and TranH warehousing tasks that it created for alternate tasks. Also, in Labor Management programs, the system now correctly calculates task time and no longer takes into account the task time for tasks where the internal TranH.SessionId field is not blank.
- Task Re-Assignment Maintenance (4.11.19.2) no longer lets you reassign tasks to another user when one user is actively working on the tasks in RF Batch Pick-So (3.1). If you try, the system now displays an error message. Previously, the tasks were reassigned even when another user was actively working on them.
- Transactions by Item Report (3.21.14) now correctly displays the end balance for RCT-TR transactions when the item is transferred from one location to another within the same site with Transfer with Lot /Serial Change (3.4.3).
- Location Report (4.13.3) now correctly displays the value of the location's percentage full amount for the original To location when you change the To location for a stock transfer transaction in Movement Confirmation Workbench (4.8.4).
- PO Shipper Maintenance (5.13.14) now creates references for a purchase order and sets the Multi-Entry field to Yes when you re-enter the program. Previously, the system did not generate the reference and set the Multi-Entry field to No.

- Updates to the active release in Required Ship Sched Maint (7.5.3) no longer cause inaccurate due date calculations in QAD Warehousing for customer schedules.
- Distrib Order Picklist Print (12.17.19) no longer displays an error message and correctly creates picking tasks when the following conditions exist:
  - The system implements the location find (LF) algorithm when merging with the same order.
  - The algorithm is defined in Algorithm Assignment Maintenance (4.17.19).
  - A single location is attached to multiple storage location groups (SLGs) in Location Maintenance (4.3.13.1).
- The Site Location field was removed, and the Default Whse Location field was renamed to Location in Item-Site Maintenance (4.4.9).

**Note** You can use the Populate Item-Site Location (4.25.15) utility to populate the renamed Location field with data from the removed Site Location field.

- The system no longer lets you merge pre-shippers in Pre-Shipper/Shipper Workbench (7.9.2) when active QAD Warehousing tasks are linked to the pre-shippers.
- The system now corrects the identification of the pre-shipper to which a task belongs when determining if a pre-shipper can be selected for a wave.
- Bulk Pick Selection Approval (4.12.12) now creates transactions for all component items when some of the component items are not defined in Item Warehouse Maintenance (4.4.11). Previously, transactions were not created for the component items.
- The system no longer displays a system error when Warehousing programs retrieve InventM records when they did not exist. The system uses InventM records to store multi-item pallet data; the records exist when the location detail quantity is greater than 0 (zero). Occasionally, location detail records attempt to access InventM records that do not exist. This happens in warehousing, for example, when closing a transaction with a destination quantity of 0 but an expected in quantity for the location that is greater than 0. The system no longer displays an error in this type of situation.
- When dealing with transactions and weights, the system now:
  - Correctly resets the weight and volume when a transaction is not complete during a transaction close.
  - Updates the weight of the parent item as well as all attached items when confirming a transaction with a 0 quantity.
- You can now select a sales order when the Print Pack List field is set to No Field is in Sales Order Maintenance (7.1.1) when selecting a wave in Wave Selection. Previously, you could not select the sales order when the field was set to No.
- For batch picking:
  - The system now displays the number of labels to print on the RF device during batch picking tasks when you set AutoSelection to yes in Batch Picking Control (4.15.24).
  - The system now correctly calculates weight for containers during batch picking.
  - The system no longer pauses for two seconds when displaying a warning in batch-picking programs.
  - Performance was improved in batch-picking selection screens.
  - RF Batch Pick SO (3.1) option:
    - No longer creates negative inventory balances for a location that has an inventory status set to No overissues when confirming a pre-shipper task after a cycle count entry.

- Now correctly rolls back the transaction after confirming the first pick task and selecting to Undo and Exit from other picking tasks for items that have the To Reference set to selection 5 in Internal Routing Maintenance (4.2.5). Previously in this scenario, the system incorrectly updated the pallet reference number and created a negative detailed pick task for the From location.
- No longer creates negative inventory balances for locations that have inventory overissue status set to No when confirming a pre-shipper task after a cycle count entry.
- Batch Picking Crash Recovery (4.15.20.13) now functions correctly. In particular, the system no longer alters transactions during the RF session startup if a batch picking crash record exists.
- Batch Picking Trans Reassignment (4.15.20.15) now displays the reassignment tasks sorted by location and item number. Previously, the system did not sort reassignment tasks that it displayed.
- You can no longer convert a pre-shipper to a shipper if there are open tasks in QAD Warehousing.
- The system now correctly passes transaction type lists to lane assignment (LA) algorithms used by wave programs. Previously, the lists were not passed to the wave programs.
- Transaction Maintenance (4.8.13) no longer decreases the quantities expected in and out when you delete a cancelled transaction.
- When you repick for wave tasks, the system now correctly updates the wave number and checks for non- waves. Previously, the system did not perform these functions.
- The system now creates the correct links between TranD and TranH tasks and pre-shippers for distribution orders (DOs). Also, when you convert a pre-shipper to a shipper, TranH tasks now point to the correct pre-shipper.
- When using QAD Warehousing functions that let you switch lot, serial, or reference numbers, the system no longer deletes location full percentages. Also, system performance was improved when the system retrieves created transaction numbers when switching lot, serial, or reference numbers.
- Several improvements and corrections were made to QAD Warehousing in .NET UI:
  - Display enhancements and fixes were made to QAD Warehousing workbenches, letting them function properly under the .NET UI.
  - API errors during .NET UI operations no longer introduce a pause statement, causing .NET UI to hang.
  - Wave Planning Control now operates correctly, letting you enter data for all editable fields in .NET UI.

# Release Notes for April 2009 Release

**QAD Warehousing Version:** QAD Warehousing for QAD 2009 Enterprise Edition

**Release Date:** April 2009

**Supported languages:** US English, Castilian Spanish, Latin Spanish, Dutch, French, German, Italian, Japanese, Polish, Portuguese (Brazilian), Simplified Chinese, and Traditional Chinese

**User Guide:** *QAD Warehousing*, item 78-0746C

**Installation/Conversion Guide:** QAD Warehousing installation information can be found in the installation documentation for QAD Enterprise Applications 2009 Enterprise Edition.

**Note** The QAD Warehousing installation process differs from the Advanced Inventory Management (AIM) installation process. Please review the installation and conversion guide before you begin installation or conversion.

## New Features Overview

New features and enhancements for this release include the following:

- You can now conduct physical inventories from the RF device within a warehouse. Warehouse staff can count quantities in the warehouse and record them directly into the system using the RF device. The device provides electronic information on what to count; however, staff can optionally print tags through the RF device or through QAD EE system software. A new RF Tag Count Entry (1.11) option lets you enter counts directly into the RF.

You specify the RF sorting method for the tags by setting a new field, Physical Inventory Sort, in Receipts/Transfers/Issues Control (4.17.24).

- Switching to different lots or references is now available for batch picking.
- New simulation programs were added to the Algorithm Menu (4.6):
  - Lane Assignment Simulation (4.6.17) lets you simulate lane algorithm assignments without actually modifying the inventory records in your database.
  - Container Move Simulation (4.6.19) lets you test your CM type algorithms without actually modifying the inventory records in your database. The system displays or reports suitable stage, truck, and dock locations, including empty locations, locations with the least goods, and locations that already contain stock for an SO shipper or DO ship-to code.
- You can now release waves automatically. When you automatically release a wave, it is not necessary to wait until all replenishment tasks are complete. You can release so that warehouse staff can pick the order as soon as the replenishment is complete. Three new fields were added to Wave Planning Control (4.1.15) to support automatic wave release:
  - Set Auto Wave Release to Yes to automatically release the wave.
  - Set Check Repl Task for Same to Yes to specify that the system look at the previously chosen lane and organize tasks for that lane by either ship-to, order, or part.
  - Use Auto Wave Release Item to specify the item to use for automatic wave release.

A new lane algorithm, algorithm 5, finds the last lane previously selected shipping lane to use when automatic wave release is active.

- New browses include the following:
  - Transaction History Browse (4.9.23) lets you display a list of transactions by transaction number, sequence, site, and warehouse. You can view the start date and time, and the user who started the transaction.

- Wave Progress Browse (4.15.4.11) displays picking tasks created for this wave that are complete, not complete, and total. In .NET UI, you can use the browse chart designer to create various charts of the data.
- Workload by WLG Browse (4.11.12.15) displays workload data by the work location group. You can display data for users, including pending, active, and total tasks, and time to complete tasks for the WLG in both man-hours and estimated hours. In .NET UI, you can also use the browse chart designer to create various charts of the data.
- New labor reports include the following:
  - Productivity by User Report (4.11.12.10)
  - Transactions by User Rpt (4.11.12.12)
  - Tasks by User and Date Inquiry (4.11.12.17)
  - Tasks by User and Date Report (4.11.12.18)
  - Tasks by Group and Date Inquiry (4.11.12.19)
  - Tasks by Group and Date Report (4.11.12.20)
- A new External Device Session Inquiry (4.25.9) lets you view user session data. You can specify a range of user IDs, then indicate whether you want to display data for active or inactive users.
- A new Terminate Own Session field in Receipts/Transfers/Issues Control (4.17.24) lets you specify whether the system terminates your previously running session. Once activated, if the user logs into the RF, the system prompts to terminate the session. If the user responds with Yes, the system attempts to stop the currently running session of that user. Once the current session stops, the user can log in as usual.

## Program Name Changes

Three pallet-related programs were renamed in this release.

**Table 8** Renamed Programs

| Menu Number | Old Name                        | New Name                           |
|-------------|---------------------------------|------------------------------------|
| 4.17.17     | Logistic Palletization/Transfer | Logistic UM Pallet Create/Transfer |
| 4.17.18     | DO Pelletization/Transfer       | Distr Order Pallet Create/Transfer |
| 4.17.20     | Pallet Constitution/Transfer    | Multi-Item Pallet Create/Transfer  |

## Fixes

- Reference Summary Inquiry (4.9.15) now reports with the correct date format.
- Movement Conf. Workbench (4.8.7) no longer lets you receive new items to a single item location when other item inventory already exists. Previously, the system incorrectly let you receive new items to a single item location.
- The RF Location Audit (1.4) option now correctly changes the status of an item from fail to available when a cycle count completes for an item with a quantity equal to the quantity available. Previously, the status remained at fail when the cycle count completed.
- The RF Batch Pick-SO/DO (3.1) and Batch Pick All (3.2) options now confirm the transaction when you set Translate Frames to Yes in Label Control (36.4.17.2). Previously, the system left transactions unconfirmed.
- When confirming a pre-shipper task after an cycle count entry, the RF Batch Pick-SO/DO (3.1) option no longer creates negative inventory balances for a location that has an inventory status with overissue set to No.

- Performance was improved in Pre-Shipper/Shipper Confirm (7.9.5) when confirming a pre-shipper with more than 30 lines.
- Sales Order Manual Allocations (7.1.6) now deletes the warehousing transaction when you delete the allocation line. Previously, the warehousing transaction was not deleted.
- Order Whse Detail Status Inquiry (4.15.4.1) no longer displays a Progress error when you specify the option to show picked details. The system now correctly displays order detail lines.
- During CIM loads, the system now sets the correct alternative UM on selected inventory screens, such as those for unplanned receipts, and so on.
- When QAD Warehousing is active, Sales Order Shipments (7.9.15) no longer updates the quantity to allocate and quantity picked on a multi-line SO when there are few lines on the multi-item SO; this is true regardless of whether the few lines ship or do not ship.
- Movement Confirmation and Inq (4.8.9) now correctly transfers the inventory during inter-warehouse transfers of multi-item pallets when you confirm the transaction using Transfer By Reference (4.17.1).
- LA algorithms are now correctly assigned to PICK-SO, PICK-DO and other PICK transactions; previously, the system only assigned the PICK-SO transaction.
- Algorithm Assignment Maintenance (4.6.9) now deletes algorithm assignment details. Previously, you were required to delete individual detail records first.
- Improvements in .NET UI browses and dashboards include the following:
  - Transaction Priority Workbench (4.11.6) formatting and display were fixed.
  - All workbench fields no longer highlight.
  - The description of users now correctly displays in labor management workbenches.
  - Trans Priority by Pre-Shipper (4.8.9) now correctly functions when the system displays more records than those that can display in a single page.
  - Movement Confirmation Workbench (4.8.7) and Labor Management Workbench (4.11.15) behavior is now consistent with other .NET UI QAD Warehousing browses.
  - Labels are now correct in Load Optimization Setup Maint (4.15.2.1).
  - Warehousing Transaction History Browse (4.9.23) under .NET UI now displays local variables with the correct format.
  - The .NET UI no longer hangs due to API errors.
  - Multi-Item Pallet Create/Transfer (4.17.20) no longer pauses in .NET UI.
- Average task time calculations were corrected in the system, both when automatically calculated for a user through Labor Management Control (4.11.24) and when invoked through Task Time Update (4.11.1.17).
- Calendar Maintenance (4.11.3.9) and User Maintenance (4.11.3.1) no longer let you enter blank calendars. When you delete a calendar, the system verifies the calendar is not assigned to a user, and if not, the system now deletes all calendar details. Also, the system now validates the calendar you enter when you assign it to a user.
- When confirming a warehousing task using the RF Next Task function, if the quantity confirmed is 0 and you set Complete, Fail and Repick to Yes, the systems now functions correctly.
- When you press F2 to inquire on load details when using the RF Ship Truck (3.5) option, the system now correctly displays data.
- The system now correctly generates the start time for certain transactions. Previously, the start time was not generated correctly, resulting in labor management reports incorrectly calculating transaction elapsed time.

- System error messages no longer display when you use the RF device and enter an incorrect location in the login screen.
- For kit components:
  - The RF Container Move (3.4) option now functions correctly and no longer locks records. It also works correctly with kit components. Previously, it did not manage kit inventory movement and detail allocations correctly.
  - The RF Ship Truck (3.5) option now correctly handles shipments with kit components.
  - Pre-shippers now correctly update the location after you confirm warehouse transactions created for kits using PICK-FAS algorithms.
  - Pre-Shipper/Shipper Confirm (7.9.5) no longer creates ISS-FAS transactions with incorrect quantities when kit component items are picked from multiple locations. Previously, quantities for ISS-FAS transactions were incorrect.
  - QAD Warehousing order detail records are now correctly created for kits when sales orders are created as not confirmed, then confirmed using Sales Order Confirmation (7.1.5).
  - Populate Order Whse Maint Tables (4.25.5) now processes kit sales order lines.
  - Available Kit Quantity to Ship (7.1.8) now executes the proper QAD Warehousing picking logic.
- Movement Confirmation Workbench (4.8.7) no longer prompts to confirm undo transactions once you confirm a task.
- Rebalance Expected In/Out Qty (4.25.3) no longer displays data for multi-lot items when there are discrepancies within the From and To fields.
- Transaction Inquiry (4.8.18) now shows the shipper ID or all transaction types. Previously, it only displayed PICK-SO and PICK-DO transactions
- Location Maintenance (4.3.13.1) now defaults the value of the OPC frequency from Storage Location Group Maint. (4.3.1). Previously, the system did not default the value from Storage Location Group Maint.
- The RF Transfer (1.3) option no longer displays an error message when you set Check Digits to Yes for locations and you transfer a pallet from one location to another location.
- The RF Location Audit (1.4) option now lets you exit screens using the F4 or End key on Reference and Alternate-UM fields during a cycle count on an empty location. Previously, you could not exit screens unless you entered correct data in these fields or pressed the Abort key.
- The following container move algorithms were corrected:
  - No 14 (Mov to Dock - Find Dedicated Dock) now correctly retrieves the shipvia code of the inventory being moved.
  - No 3 (Move to Stage–Merge with Same Shipper/Ship-To) now correctly handles shipper and ship-to searches.
  - No 12 (Move to Dock–Merge with Same Shipper/Ship-To) now correctly handles shipper and ship-to searches.
- Put Away/Loc Find Simulation (4.6.13) now correctly deletes the results screen.
- The RF Batch-Pick (3.1) option now correctly rolls back the transaction when you use the End or F4 key after confirming the first pick task. Previously, you could not exit or undo from a pick task for items with a To Reference set to 5 in Internal Routing Maintenance (4.2.5).
- Warehouse Transaction Inquiry (4.9.1) now refreshes shipper IDs in the Other Details frame when the system displays transactions with blank shipper IDs after it displays transactions with non-blank shipper IDs.
- User-Work Location Group Maint. (4.11.3.13) and User Printer Maintenance (4.21.9) now let you enter values for the Inspection Printer and Use External fields.

- When picking for distribution orders or waves using pre-shippers, the system no longer displays Progress errors when a pre-shipper is not created.
- Auto replenishment, which you set through the Auto Replenish field in the Miscellaneous frame of Warehouse Maintenance (4.1.1), now works correctly.
- You can now activate tasks created with Wave Release (4.15.8) when you run another instance of Wave Replenishment (4.15.6) or Wave Release before the activation.
- When you confirm tasks on the RF with a quantity of 0 (zero), the system now prompts for the destination location, letting you enter a check digit. Previously, you could not enter a destination location, and therefore, you could not enter a check digit, and the system displayed an error without the check digit. Also, check digit functionality was added to the RF Container Move option, so that users are prompted for a check digit once they enter the To location.
- Wave tasks now correctly cancel checks for distribution order picking tasks when no pre-shipper is attached. Previously, just sales order picking tasks were checked.
- Wave Replenishment (4.15.6) now correctly sets the status of the wave when you replenish a released wave. Also, wave replenishment date and time are now considered in Wave Task Inquiry (4.15.4.8), Wave Priority Boost (4.15.15), and Load Priority Boost (4.15.2.20). Previously, the date and time were not considered, resulting in replenishment tasks for items in a wave not being linked to the wave.
- Wave Release (4.15.5) now successfully launches the wave for an item that has an existing wave replenishment task when Avoid Release Without Replenish is set to No in 3 Wave Planning Control File (4.15.2). Previously, the wave was not released.
- In Wave Planning (4.15) functions, the system now correctly assigns pre-shipper numbers when you set options to create a new pre-shipper.
- RF kanban functionality now works correctly. The system stores kanban information for an item at the item/site level only, and previously, the system did not check for the existence of this record prior to creating kanban transactions.
- The RF Transfer (1.3) option now works correctly. Previously, you could not enter a storage location group as the destination location, even though the transaction was created. Also, the system did not check whether the destination location was a single part location (loc\_single).
- Logistic UM Pallet Create/Transfer (4.17.17) now correctly creates tasks for pallets.
- Minor corrections include:
  - RF program records no longer lock when you introduce transactions.
  - Switch lot/serial and reference functions were corrected.
  - Batch picking crash recovery functions were corrected.

# Release Notes for September 2008.1 Release

**QAD Warehousing Version:** QAD Warehousing for QAD 2008.1 Enterprise Edition

**Release Date:** September 2008

**Supported languages:** US English, Castilian Spanish, Latin Spanish, Dutch, French, German, Italian, Japanese, Polish, Portuguese (Brazilian), Simplified Chinese, and Traditional Chinese

**User Guide:** *QAD Warehousing*, item 78-0746B

**Installation/Conversion Guide:** QAD Warehousing installation information can be found in the installation documentation for QAD Enterprise Application 2008.1 Enterprise Edition.

**Note** The QAD Warehousing installation process differs from the Advanced Inventory Management (AIM) installation process. Please review the installation and conversion guide before you begin installation or conversion.

## New Features Overview

In this release of QAD Warehousing, new features and functions let you:

- Pick for Different Lot/Serial/Reference
- Interface with Transportation Management Systems
- Create general allocations for orders and set defaults for allocations through new programs in the Order Management Menu (4.13)

The following topics discuss the new features.

## Picking for Different Lot/Serial or References

When warehouse staff pick for orders, QAD Warehousing typically allocates specific pallets to be picked as specified by the appropriate algorithm selected; however, many warehouses have multiple pallets containing the same item that are housed in the same warehouse location. For more efficient picking, staff can now pick pallets with different lot/serial or reference numbers than those assigned to be picked by the system. By adding the flexibility to pick other pallets for the same item, warehouse staff can ship and complete the order expeditiously.

You set fields in QAD Warehousing so that warehouse users who access the following can switch location, lot/serial, or reference numbers to substitute pallets when confirming tasks on the RF:

- RF Next Task (1.1) option
- RF Select Task (1.2) option
- Batch Pick SO/DO (3.1) or Batch Pick All (3.2)

**Note** Batch picking does not support picking for different lot/serial or reference numbers.

You specify a substitute pallet or reference in the same location or another location by setting existing fields in the Transaction Confirmation Defaults frame of Warehouse Control (4.1.24). A new Expire Date (Days) field was added to the Transaction Confirmation Defaults frame that works with the From Location Option, From Lot/Serial Option, and From Reference Option fields when specifying different lot/serial/reference numbers.

Use the Expire Date (Days) field to specify the maximum number of days (0 to 9999) that the expiration date of the new pallet can differ from the expiration date of the original pallet. For example, if you enter 5, and the expiration date of the original pallet is 12/1/2008, then the expiration date of the new pallet must

fall between 12/1/2008 and 12/6/2008. The default value for this field is 0, which means that the expiration date of the original pallet must match the expiration date of the new pallet.

## **Interfacing with Transportation Management Systems**

A new Wave Transportation Menu (4.15.2) was added to the Wave Menu (4.15). Use the programs in the menu to add Transportation Management System load optimization functions to QAD Warehousing functions. QAD Warehousing works with a TMS to provide the following:

- Check carrier rates and routing guide for best cost, lead time, or delivery window
- Perform order consolidation, route optimization, and drop-off sequencing
- Perform compliance checks, if defined
- Produce native carrier or packing labels

The following topics discuss features in QAD Warehousing that were updated to interface with a TMS.

### **Wave Planning, Replenishment, and Release**

When using QAD Warehousing wave planning functions, the system relies on workload capacity constraints for planning warehouse picking, packing, and shipping activities. The system uses a TMS to consider load consolidation and optimization during wave planning. The TMS factors in different modes of available shipping such as parcel shipping, less than truckload (LTL), and full truck load (FTL) when selecting orders for a wave.

During wave replenishment and release, the system creates picking tasks and groups them for pre-shippers per ship-to address. Load optimization functions within wave planning let you:

- Import TMS load optimization information to produce more efficient task groups for pre-shippers
- Organize task groups to optimize picking, packing, and shipping of loads by similar means of transport.
- Execute checking against wave lines and quantities
- Drive the replenishment and release processes

### **Order Selection and Export**

As a step to using a wave planning flow with a TMS, the system flags order lines to either follow a load optimization flow or follow the original wave planning flow. The system selects orders flagged for load optimization and exports them to a TMS before making them eligible for selection in a wave. You can export all or a subset of the selected sales or distribution order lines for TMS processing.

QAD Warehousing exports a detailed list to a TMS of sales/distribution order lines, quantities, weights, and volumes that you want to optimize and consolidate to streamline shipping. The TMS performs calculations to optimize the load, then sends the optimized information back to QAD Warehousing.

You can set up load optimization parameters in Load Optimization Set Up Maint (4.15.2.1).

### **Batch Picking and RF Options**

Batch picking and other RF options are linked to the TMS. Although task confirmation and related activities are the same, the system enhances task orders that display on the RF to take advantage of load optimization.

Warehouse staff can no longer mix items belonging to different loads into the same container (tote, box, or pallet) when picking.

When building containers through the RF, the system ensures the containers cannot contain items from different loads in the same container.

### Load Verify

QAD Warehousing performs load verification functions when it:

- Converts a pre-shipper to a shipper
- Prints the shipper and shipping labels
- Verifies all tasks for a given load have been completed

### Print Paperwork, Container Move and Pallet Explosion

Container Move functionality uses TMS drop-off sequencing information to stage pallets in the right order, inverse to the drop-off sequence linked to each pre-shipper. That is, when loading containers that belong to a load, the system verifies that the containers belonging to pre-shippers with the last stop sequence are loaded first.

QAD Warehousing also sends packing information to the TMS so that the TMS can produce the appropriate shipping labels. During print paperwork functions, QAD Warehousing exports packing information to the TMS; the TMS, in turn, returns shipping labeling information or prints shipping labels.

The system produces all necessary documentation for individual shipments (manifesting), including cross-border transactions within governmental and customs regulations.

When exploding pallets on the RF, the system ensures containers that are built per load.

### Ship Truck

During ship truck activities, QAD Warehousing sends shipping information to the TMS so that the TMS can calculate shipment freight charges, track information, and send this information back to QAD Warehousing.

During ship truck activities, the system validates that a shipper has been sent to the TMS before it sends an end of day (EOD) message to the TMS.

### Specifying Load Optimization in Orders

When you set up loads in the new Load Optimization Setup Maint (4.15.2.17), the system sets a new Load Optimization field to Yes for sales orders in SO Warehouse Data Maintenance (4.13.3) and for distribution orders in DO Warehouse Data Maintenance (4.13.6). You can overwrite the Load Optimization field, though, in the orders. When Load Optimization is Yes in any of the order data maintenance programs, the system makes the order line eligible for load optimization through a TMS.

### New Exit Routines for TMS Communication

New exit routines in Local Exit Routines Setup (4.23.10) support necessary communication between QAD Warehousing and the TMS:

*Batch Order Export (whtraxbx.p)*. Order Batch Export/Load Import (4.15.2.7) uses this routine to send and receive export messages with the TMS. Order Batch Export/Load Import lets you export the order

batch selections created in Order Batch Selection (4.15.2.5). It uses this routine to create the batch shipment message, send the message to the TMS, receive a reply, and create loads.

*Ship Shipment (whtraxsx.p)*. RF Print Paperwork (3.8) uses this routine to send and process ship shipment messages with the TMS. QAD Warehousing sends the final contents of shippers, including containerization information, to the TMS. It then receives the shipping labels, freight charges, and tracking or PRO numbers that it stores in header records of the shipment.

*Cancel Shipment (whtraxcx.p)*. The RF Cancel Shipment (3.9) uses this routine to send a void shipment message to the TMS should you need to cancel a shipment. QAD Warehousing first validates that this shipment was sent to TMS using the ship shipment routine message and RF Print Paperwork functions. Once validated, it sends a message to the TMS to cancel the shipment and receives a cancellation reply.

*Truck Shipment (whtraxtx.p)*. The RF Ship Truck (3.5) uses this routine to process the EOD message. This message lets the system recalculate final freight charges and prorate truck level charges over individual shipments. Depending on the additional freight charges, the charges can be prorated over individual sales orders and loaded in its corresponding trailer charge when confirming orders.

For shipments belonging to a load, the system verifies that when users attempt to confirm a shipment, all other shipments for that same load are selected in the same transaction. If not selected, warnings or errors display, depending on Warehouse Transportation Control (4.15.2.24) settings. When communication problems occur, the system displays messages.

### New RF Programs for TMS Interfacing

A new Cancel Shipment (3.9) option was added to the RF menu. Warehouse staff can use the new option to send a void shipment message to the TMS and cancel the shipment; see “New Exit Routines for TMS Communication” on page 31.

### New Wave Transportation Programs

Programs in the new Wave Transportation Menu (4.15.2) let you set up load optimization, create selections for the load, create/edit the load, export/import data for the load to/from the TMS, and report on load optimization.

**Table 9**  
Wave Transportation Menu (4.15.2)

| Menu         | Menu Label                       | Program Name |
|--------------|----------------------------------|--------------|
| 4.15.2.1     | Load Optimization Setup          | whtmlsmt.p   |
| 4.15.2.2     | Load Optimization Inquiry        | whtmlsiq.p   |
| 4.15.2.3     | Load Optimization Setup Report   | whtmlsrp.p   |
| 4.15.2.5     | Order Batch Selection            | whtmbsmt.p   |
| 4.15.2.7     | Order Batch Export/Load Import   | whtmbsex.p   |
| 4.15.2.9     | Order Batch Inquiry              | whtmbsiq.p   |
| 4.15.2.10    | Order Batch Report               | whtmbsrp.p   |
| 4.15.2.12    | Reports Menu...                  |              |
| 4.15.2.12.1  | Load Shipments by Order Report   | whtmlldr1.p  |
| 4.15.2.12.2  | Load Shipments by Item Report    | whtmlldr2.p  |
| 4.15.2.12.3  | Load Shipments by Ship-To Report | whtmlldr3.p  |
| 4.15.2.12.7  | Load Detail Status Inquiry       | whtmstiq.p   |
| 4.15.2.12.12 | Transmission Log Inquiry         | whtmlgiq.p   |

| <b>Menu</b>  | <b>Menu Label</b>                | <b>Program Name</b> |
|--------------|----------------------------------|---------------------|
| 4.15.2.12.13 | Shipper Charges Report           | whtmchrp.p          |
| 4.15.2.12.15 | Shipper/Container Tracking Inq   | whtmiq01.p          |
| 4.15.2.12.16 | Carrier Tracking Numbers Inquiry | whtmiq02.p          |
| 4.15.2.12.22 | Transmission Log Delete/Archive  | whtmlgup.p          |
| 4.15.2.12.23 | Charges/Tracking Delete/Archive  | whtmtrup.p          |
| 4.15.2.13    | Carrier/Service Assignment Maint | whtmsmt.p           |
| 4.15.2.14    | Carrier/Service Assignment Inq   | whtmssiq.p          |
| 4.15.2.15    | Carrier/Service Assignment Rpt   | whtmssrp.p          |
| 4.15.2.17    | Load Maintenance                 | whtmlgmt.p          |
| 4.15.2.18    | Load Inquiry                     | whtmlidiq.p         |
| 4.15.2.19    | Load Report                      | whtmlrdp.p          |
| 4.15.2.20    | Load Priority Boost              | whtmlpr.p           |
| 4.15.2.22    | Order Batch Delete/Archive       | whtmsup.p           |
| 4.15.2.23    | Load Delete/Archive              | whtmldup.p          |
| 4.15.2.24    | Wave Transportation Control      | whtmpm.p            |

## Creating General Allocations and Setting Defaults for Orders

Two new programs were added to the Order Data Maintenance Menu:

- Order Management Control (4.13.24)
- Order Warehouse Allocations (4.13.17)

Use Order Management Control to specify parameters for allocating items for sales, distribution, and work orders. You can specify:

- The number of calendar days from the sales order due date by which the system allocates work order line item
- Calculations for allocations
- Which sequence the system allocates order lines gets allocated

Use Order Warehouse Allocations to generate general allocations for selected sales, work, and distribution orders. Allocations reserve inventory for shipment on confirmed orders, so it is not available for other orders in the system.

- General allocations reserve only the quantity needed at a particular site.
- Detail allocations set aside specific quantities by location, lot/serial, or reference numbers. Detail allocations are created automatically when picking.

Allocations also control shipment quantities when you cannot fill all orders. You can choose to ship the quantity allocated or the quantity picked.

# Release Notes for March 2008 Release

**QAD Warehousing Version:** QAD Warehousing for QAD 2008 Enterprise Edition

**Release Date:** March 2008

**Supported languages:** US English, Castilian Spanish, Latin Spanish, Dutch, French, German, Italian, Japanese, and Traditional Chinese

**User Guide:** *QAD Warehousing*, item 78-0746A

**Installation/Conversion Guide:** QAD Warehousing installation information can be found in the installation documentation for QAD Enterprise Application 2008 Enterprise Edition.

**Note** The QAD Warehousing installation process differs from the Advanced Inventory Management (AIM) installation process. Please review the installation and conversion guide before you begin installation or conversion.

## Initial Release

QAD Warehousing is the first QAD Enterprise Application 2008 Enterprise Edition version of the Advanced Inventory Management (AIM) product. QAD Warehousing is a fully merged, optional module within QAD Enterprise Application 2008 Enterprise Edition that displays as menu item 4, Warehousing.

## Menu Changes

General changes from AIM menus and programs to QAD Warehousing menus and programs include the following:

- All programs now fall under menu number 4, not menu number 80.
- Programs were renamed to distinguish them from QAD 2008 - Enterprise functions and programs; for example, Transfer by Reference (80.17.1) was renamed Warehouse Transfer By Reference (4.17.1)
- Programs were moved or regrouped to follow a more logical order or processing flow. For example, confirm and print programs are after maintenance programs within the menus.
- Browse and report programs were added or moved to follow the maintenance programs to which they correspond. Also, many browses and reports were renamed to follow naming conventions for these type programs in QAD 2008 - Enterprise.
- Dashes were removed from program names to follow QAD 2008 - Enterprise program names; for example, UM-Group Maintenance in AIM is now UM Group Maintenance in QAD Warehousing.
- All control files were renamed to match QAD 2008 - Enterprise control file naming conventions.

For a complete list of QAD Warehousing programs by menu number, see “QAD Warehousing Menu” on page 41.

For a list of code changes, see page 40.

For new features and enhancements, see page 40.

Specific changes by menu are described in the following topics.

## Routing Menu

A new Ext Routing Assignment Browse (4.2.18) and Ext Routing Assignment Report (4.2.19) were added.

## Location Menu

Location Maintenance Menu (80.3.13) was removed. Many programs in the menu were renamed to include Warehouse in the program name. For example, Location Maintenance was renamed Warehouse Location Maintenance.

A new Location Reports Menu (4.3.17) was added with these existing AIM programs moved to the menu:

- Location By SLG Inquiry (4.3.17.1)
- Location By WLG Inquiry (4.3.17.2)
- Dedicated Location Inquiry (4.3.17.4)
- Location Full % Report (4.3.17.13)

The Location Forecast Menu was moved from AIM (80.10) to the Location Menu (4.3). The following programs were renamed:

| Old Menu/Programs                        | New Menu/Programs                          |
|--|--|
| Location Forecast Menu (80.10)           | Location Forecast Menu (4.3.19)            |
| Generate Receipt Forecasts (80.10.1)     | Location Forecast Build (4.3.19.1)         |
| Receipt Forecast Maintenance (80.10.2)   | Location Forecast Maintenance (4.3.19.2)   |
| Receipt Forecast Order Inquiry (80.10.3) | Location Forecast Order Inquiry (4.3.19.3) |
| Receipt Forecast Inventory Inq (80.10.4) | Location Forecast Inventory Inq (4.3.19.4) |
| Receipt Forecast Report (80.10.5)        | Location Forecast Report (4.3.19.5)        |
| Location Forecast Control File (80.10.4) | Location Forecast Control (4.3.19.24)      |

A new Check Digit Generation (4.3.22) program was added.

## Item Menu

The following programs were renamed:

| Old Programs                             | New Programs                         |
|--|--------------------------------------|
| Item/SLG Properties Maintenance (80.4.1) | Item-Storage Loc Group Maint (4.4.1) |
| Item Master Maintenance (80.4.5)         | Multi-Level Item Maintenance (4.4.5) |
| Item Master Inquiry (80.4.6)             | Multi-Level Item Inquiry (4.4.6)     |

AIM Item Number Change (80.4.21) was removed.

## Sizing Menu

Program names in the Sizing menu (4.5) were changed slightly. UM was renamed Unit of Measure in many of the programs. Browsers and reports were renamed to follow standard QAD 2008 - Enterprise names for these type programs.

Two new programs were added:

- UM Group by Item Number Inquiry (4.5.7)
- Base UM Check Report (4.5.12)

## Algorithm Menu

The AIM Algorithm Simulation Menu (80.6.21) was removed along with two reports in the menu. PA/LF Simulation (80.6.21.1) was renamed Put Away/Loc Find Simulation (4.6.13).

## Engine Menu

Engine transaction type programs were moved to the beginning of the Engine menu (4.7), while engine processors moved to the end of the Engine menu.

Program names changed slightly to match QAD 2008 - Enterprise program names. The following programs were removed:

- Engine Workfile Inquiry By Time (80.7.15)
- Engine WorkFile Inquiry By Inv (80.7.16)
- Engine History Inquiry By Time (80.7.22.1)
- Engine History Inquiry By Inv (80.7.22.2)

## Process Menu

The order and names of these programs changed:

| Old Programs                             | New Programs                            |
|--|---|
| Movement Conf Workbench (80.8.4)         | Movement Confirmation Processor (4.8.5) |
| Movement Conf Processor By Tran (80.8.5) | Movement Confirmation Workbench (4.8.7) |

Inventory Status Maintenance (80.8.15) was removed.

## Reports Menu

The following were added to the Reports Menu (4.9):

- Referenced Detail Inquiry (4.9.16)
- Reference History Detail Inquiry (4.9.17)

The following were removed from the AIM Reports Menu (80.9):

- Referenced Inventory Inquiry (80.9.14)
- Referenced Inventory History Inq (80.9.15)
- Percentage Full By Work Loc Grp (80.9.16)
- Percentage Full By Store Loc Grp (80.9.17)
- Warehouse Full % Report (80.9.18)
- Location-Dedicated Item Inquiry (80.9.18)

## Labor Management Menu

Two new programs were added to the Labor Management Menu (4.11):

- Task Report (4.11.1.3)
- Task Load Report (4.11.12.13)

The following AIM programs were dispersed throughout the Labor Management Menu (4.11) so that they follow the maintenance and browse programs, like standard QAD 2008 - Enterprise programs:

- Next Task Inquiry (80.11.3.1)
- Task Time Inquiry (80.11.23.3)
- Tasks Completed per Day Inquiry (80.11.23.5)
- Performance by Task Report (80.11.3.7)

- Performance by User Report (80.11.23.8)
- Current User Performance Report (80.11.23.9)
- RDT/RF Operation Inquiry (80.11.23.12)

A new Labor Management User Menu (4.11.3) was added and AIM labor management user programs were added to the new menu. The programs that were added were renamed; the term, Warehouse, was added to the program name so that the programs would not duplicate existing QAD 2008 - Enterprise programs. For example, User Maintenance (80.11.13) was renamed User Warehouse Data Maintenance, (4.11.3.1) and Group Maintenance (80.11.15) was renamed Warehouse Group Maintenance (4.33.3.5).

Also, the following programs were renamed:

| <b>Old Programs</b>                    | <b>New Programs</b>                         |
|--|---|
| RDT/RF Operation Inquiry (80.11.23.12) | Task by Completion Time Inquiry (4.11.12.3) |
| Task Time Inquiry (80.11.6)            | Pending Tasks Inquiry (4.11.12.2)           |

Current User Performance Report (80.11.3.9) was removed.

### **Order Management**

The Order Management Menu is now before the Bulk Picking Menu and was renamed Order Warehouse Menu (4.13). Additionally, AIM order management programs were renamed to distinguish them from QAD 2008 - Enterprise functions; for example, Order Maintenance (80.14.1) is now Order Warehouse Data Maintenance (4.13.1) and Sales Order Maintenance (80.14.3) is now SO Warehouse Data Maintenance (4.13.3).

A new Allocated Order Warehouse Report (4.13.10) was added.

### **Bulk Picking Menu**

In the new Bulk Picking Menu (4.13), programs were rearranged to follow a more logical flow when processing bulk picked orders. For example, the order deselection program now follows the order selection program, and the approval program follows both of these. All bulk print functions and reports follow the bulk pick maintenance programs and reports.

The following new menu and programs were added:

- Bulk Picking History Menu (4.14.21)
- Bulk History Inquiry (4.14.21.1)
- Bulk History Pre-Shipper Inquiry (4.14.21.2)
- Bulk History Shipper Inquiry (4.14.2.31)
- Bulk History Report (4.14.21.4)
- Bulk History Delete/Archive (4.14.21.23)

### **Wave Planning/Batch Picking Menu**

All wave planning setup programs, such as those for creating lanes and workload groups and assigning lanes now reside in a new Wave Planning Setup Menu (4.15.1). Wave planning reports now reside in a new Reports Menu (4.15.4).

A new Wave Delete/Archive (4.15.23) program was added.

## Replenishment Menu

In Replenishment Menu (4.16), the Replenishment Location Maint program and reports and the Replenishment SLG Maint program and reports were moved before the Replenishment Request (4.16.13) program.

## Receipts/Transfers/Issues Menu

The Stock Transfer Menu (80.17) was renamed the Receipts/Transfers/Issues Menu (4.17). Other program names changed slightly to distinguish them from QAD 2008 - Enterprise functions and programs; for example, Transfer by Reference (80.17.1) was renamed Warehouse Transfer By Reference (4.17.1).

## Interface Menu

The Interface Menu (80.19) was removed and programs under the menu were moved to the Labor Management User Menu (4.11.3), except for EAN/SCC Coding Test (80.19.13) and Barcode Prefix Control File (80.19.24). These two programs were moved to a new Verbosity menu (4.23.1) under the Warehouse System Admin Menu (4.23).

## Quality/Inspection Menu

The Quality/Inspection Menu (4.19) was moved before the Printing Menu (4.21). Programs were renamed:

| Old Programs                              | New Programs                             |
|---|--|
| Change Inspection Status Maint (80.22.13) | Inspection Status Change Maint (4.19.13) |
| Sample History Delete/Archive (80.22.23)  | Inspection Hist Delete/Archive (4.19.23) |

## Printing Menu

In the Printing Menu (4.21), a new Printing Setup Menu (4.21.1) was added along with these new print programs:

- Printing Setup Menu (4.21.1)
- Print Banner Maintenance (4.21.1.1)
- Print Banner Browse (4.21.1.1)
- Print Banner Report (4.21.1.1)
- Print Label Maintenance (4.21.1.1)
- Print Label Browse (4.21.1.1)
- Print Label Report (4.21.1.1)

A new Transaction/ID Reprint (4.21.12) program was added.

The Reprint (80.20.11) program was renamed Transaction/ID Reprint (4.21.12).

## System Menu

The System Menu (80.24) is now the Warehouse System Admin Menu (4.23).

A new Sequence Definition Report (4.3.3) was added.

Sequence Definition Inquiry (80.4.2) was renamed Sequence Current Values Inquiry (4.23.4).

The following menus and programs were removed:

- Translation Menu (80.24.5)
- Translation Manager (80.24.5.1)
- Release Bulletin Utility (80.24.6)
- Aim Dump/Load Menu (80.24.7)
- Dump/Load Program Utility (80.24.7.1)
- Database File Dump/Load Utility (80.24.7.2)
- Database File Dump/Load w/Batch 980.24.7.3)
- Excel Menu (80.24.17)
- Excel Master Maintenance (80.24.17.1)
- Excel Detail Maintenance (80.24.17.3)
- Excel Control File (80.24.17.24)
- Upgrade Menu (80.24.19)
- Whse To Aim Master Maintenance (80.24.19.1)
- Whse To Aim Master Inquiry (80.24.19.2)
- Whse To Aim Master Report (80.24.19.3)
- Whse To Aim Detail Maintenance (80.24.19.5)
- Whse To Aim Detail Inquiry (80.24.19.6)
- Whse To Aim Detail Report (80.24.19.7)
- Whse To Aim System Rename (80.24.19.11)
- Whse To Aim System Copy (80.24.19.12)
- Whse To Aim Data Transfer (80.24.19.13)
- Whse To Aim Data Validation (80.24.19.15)
- Whse To Aim Data Loader (80.24.19.17)
- Whse To Aim Data Tidy Up (80.24.19.19)
- Whse To Aim Trigger Update (80.24.19.21)
- Whse To Aim Control File (80.24.19.24)
- Utility Menu (80.24.21)
- Generalized Codes Maintenance (80.24.21.1)
- Window Help Maintenance (80.24.21.2)
- Create AIM Diagnostic File (80.24.21.5)
- AIM Diagnostics Report (80.24.21.6)

System Control File (80.24.24) was renamed Warehouse Management Control (4.24).

### **Miscellaneous Menu**

A new Miscellaneous Utilities Menu (4.25) was created but is not visible from the QAD Warehousing menu. Programs in the new menu previously existed throughout various AIM menus. The programs are intended for use by system administrators.

- Miscellaneous Utilities (4.25)
- Rebuild Invent Master Records (4.25.1)

- Recalculate Location Full % (4.25.2)
- Rebalance Expected In/Out Qty (4.25.3)
- Container Creation Utility (4.25.4)
- Populate Order Whse Maint Tables (4.25.5)
- Incomplete Hanging Tasks Report (4.25.6)
- Hanging lad\_det Report (No Task) (4.25.7)
- Persistent Procedure Inquiry (4.25.8)

## RF Menu Changes

A new Print Paperwork (3.8) option was added to the RF Picking/Container (3.) menu. The Print Paperwork option supports parcel manifest functionality; see “Parcel Manifest” on page 41.

The BP Pick SO (3.1) option was changed to BP Pick SO/DO to support DO shipper functionality; see “DO Shipper Functionality” on page 40.

For a complete RF menu listing for QAD Warehousing, see page 50.

## Code Changes

AIM code was merged into the QAD 2008 - Enterprise as QAD Warehousing code. The changes to code include the following:

- QAD Warehousing schema is now part of qaddb.
- QAD Warehousing database definitions were realigned with QAD 2008 - Enterprise database definitions.
- QAD Warehousing invasive code is now part of the baseline.
- QAD Warehousing data (menus, messages, and labels,) are now part of QAD 2008 - Enterprise data.
- OpenEdge 10, Oracle, and QXtend compatibility was added.
- Domain and Unicode functionality were implemented
- QAD Warehousing uses the external labels translation mechanism, instead of having a separate set of r-code by language.
- Full .NET UI support was added.
- QAD Warehousing data sets were added to Language Detail Maintenance (36.4.2).
- QAD Warehousing general codes were added to Generalized Codes Maintenance (36.7.11).
- Triggers are launched using mf.p; there is no need to use cpdmf.p to launch the product.

## Additional Enhancements

In addition to the new programs that are listed under the menu topics, new enhancements were added to QAD Warehousing as described in the following topics:

### DO Shipper Functionality

A new Distribution Orders Shipping Menu (12.19) was added to QAD 2008. QAD Warehousing was enhanced to support the new DO shipper functionality.

For bulk picking, you can confirm transactions for a sales order line or a distribution order requisition. The confirmation of the warehouse transactions ensures that confirmed item quantities are included on a

standard shipper, just like items created and confirmed in the Shipment Processing Menu (7.9) for sales orders or Distribution Orders Shipping Menu (12.19) for distribution orders. Also, once a pre-shipper or shipper is complete for the bulk-picked orders, you can issue goods using the standard system Pre-Shipper/Shipper Confirm (7.9.5) or DO Pre-Shipper/Shipper Confirm (12.19.13).

For batch picking, you can now merge sales orders/distribution orders on different pre-shippers. When staff log onto the RF, they can now select orders from either sales order or distribution orders. The RF Batch Pick -SO menu is now the Batch Pick - SO/DO option. If you selected Batch Pick-SO/DO, orders are now preceded with either an S(ales) or D(istribution) depending on the type.

For wave planning, you can maintain carriers at the line level in the system using SO Warehouse Data Maintenance (4.13.3) for sales orders or DO Warehouse Data Maintenance (4.13.6) for distribution orders. The first step of wave replenishment now creates a pre-shipper for sales orders or distribution orders. When you release a wave, the system creates and prints the pre-shipper for sales orders or distribution orders.

### Parcel Manifest

A manifest is a list of goods carried on a truck, train, or ship. Before starting the truck load process, RF users can now produce the necessary shipment manifest by using the new RF Print Paperwork (3.8) function. Print Paperwork allows RF users to:

- Print pre-shipper/shippers by scanning the document number in the RF device.
- Convert pre-shippers to shippers by assigning a shipper number.

A new Print Paperwork Frame in Batch Picking Control (4.15.24) lets you set defaults for shipper printing. You can optionally print a pre-shipper/shipper for both sales and distribution orders from the RF.

### New Master Comment Maintenance Utility

A new Master Comment Maintenance (36.7.12) utility was added. The utility is for system administrators to use when they initially activate the wave planning module (4.15). The utility updates customer schedule due dates as well as marks orders as allocated when needed.

## QAD Warehousing Menu

The following table presents the QAD Warehousing menus and programs.

| Menu   | Menu Label                     | Program Name |
|--------|--------------------------------|--------------|
| 4.1    | Warehouse Menu...              |              |
| 4.1.1  | Warehouse Maintenance          | whwhmt.p     |
| 4.1.2  | Warehouse Browse               | whbr001.p    |
| 4.1.3  | Warehouse Report               | whwhrp.p     |
| 4.1.5  | Whse Master List Maintenance   | whwhlsmt.p   |
| 4.1.6  | Whse Master List Browse        | whbr002.p    |
| 4.1.7  | Whse Master List Report        | whwhlsrp.p   |
| 4.1.13 | Inventory Acct Synchronization | whacsync.p   |
| 4.1.24 | Warehouse Control              | whwhpm.p     |
| 4.2    | Routings Menu...               |              |
| 4.2.1  | Internal Routing Group Maint   | whirgpm.p    |
| 4.2.2  | Internal Routing Group Browse  | whbr026.p    |
| 4.2.3  | Internal Routing Group Report  | whirgrp.p    |

| <b>Menu</b> | <b>Menu Label</b>                | <b>Program Name</b> |
|-------------|----------------------------------|---------------------|
| 4.2.5       | Internal Routing Maintenance     | whirmt.p            |
| 4.2.6       | Internal Routing Browse          | whbr003.p           |
| 4.2.7       | Internal Routing Report          | whirrp.p            |
| 4.2.9       | Int Routing Assignment Maint     | whirasmt.p          |
| 4.2.10      | Int Routing Assignment Browse    | whbr027.p           |
| 4.2.11      | Int Routing Assignment Report    | whirasrp.p          |
| 4.2.13      | External Routing Maintenance     | whermt.p            |
| 4.2.14      | External Routing Browse          | whbr004.p           |
| 4.2.15      | External Routing Report          | wherrp.p            |
| 4.2.17      | Ext Routing Assignment Maint     | wherasmt.p          |
| 4.2.18      | Ext Routing Assignment Browse    | whbr203.p           |
| 4.2.19      | Ext Routing Assignment Report    | wherasrp.p          |
| 4.2.21      | Inter-Work Location Group Maint  | whinwlmt.p          |
| 4.2.22      | Inter-Work Location Group Browse | whbr023.p           |
| 4.2.23      | Inter-Work Location Group Report | whlgmrp.p           |
| 4.3         | Location Menu...                 |                     |
| 4.3.1       | Storage Location Group Maint     | whslgmt.p           |
| 4.3.2       | Storage Location Group Browse    | whbr034.p           |
| 4.3.3       | Storage Location Group Report    | whslrp.p            |
| 4.3.5       | Storage Loc Group List Maint     | whsllsmt.p          |
| 4.3.6       | Storage Loc Group List Browse    | whbr006.p           |
| 4.3.7       | Storage Loc Group List Report    | whsllsrp.p          |
| 4.3.9       | Work Location Group Maintenance  | whwlgmt.p           |
| 4.3.10      | Work Location Group Browse       | whbr005.p           |
| 4.3.11      | Work Location Group Report       | whwlrp.p            |
| 4.3.13      | Warehouse Location Maint         | whlomt.p            |
| 4.3.14      | Warehouse Location Browse        | whbr007.p           |
| 4.3.15      | Warehouse Location Report        | whbr007.p           |
| 4.3.17      | Location Reports Menu...         |                     |
| 4.3.17.1    | Location By SLG Inquiry          | whlosliq.p          |
| 4.3.17.2    | Location By WLG Inquiry          | whlowliq.p          |
| 4.3.17.4    | Dedicated Location Inquiry       | whlodeiq.p          |
| 4.3.17.13   | Location Full % Report           | whlofurp.p          |
| 4.3.19      | Location Forecast Menu...        |                     |
| 4.3.19.1    | Location Forecast Build          | whfrcgn.p           |
| 4.3.19.2    | Location Forecast Maintenance    | whfcremt.p          |
| 4.3.19.3    | Location Forecast Order Inquiry  | whfcq01.p           |
| 4.3.19.4    | Location Forecast Inventory Inq  | whfcq02.p           |
| 4.3.19.5    | Location Forecast Report         | whfrcrp.p           |
| 4.3.19.24   | Location Forecast Control        | whfcpm.p            |
| 4.3.21      | Mass Location Maintenance        | whlomamt.p          |
| 4.3.22      | Check Digit Generation           | whlomamt.p          |
| 4.3.23      | Hold Menu...                     |                     |
| 4.3.23.1    | Hold Maintenance                 | whichomt.p          |

| <b>Menu</b> | <b>Menu Label</b>                | <b>Program Name</b> |
|-------------|----------------------------------|---------------------|
| 4.3.23.2    | Hold Browse                      | whbr008.p           |
| 4.3.23.3    | Hold Report                      | whichorp.p          |
| 4.3.23.23   | Expired Hold Delete/Archive      | whichoup.p          |
| 4.4.1       | Item-Storage Loc Group Maint     | whppslmt.p          |
| 4.4.2       | Item-Storage Loc Group Browse    | whbr030.p           |
| 4.4.3       | Item-Storage Loc Group Report    | whppslrp.p          |
| 4.4.5       | Multi-Level Item Maintenance     | whppmt.p            |
| 4.4.6       | Multi-Level Item Inquiry         | whppiq.p            |
| 4.4.7       | Item Maintenance                 | whppptmt.p          |
| 4.4.8       | Item Inquiry                     | whppptiq.p          |
| 4.4.9       | Item-Site Maintenance            | whppsmt.p           |
| 4.4.10      | Item-Site Inquiry                | whppsiiq.p          |
| 4.4.11      | Item-Warehouse Maintenance       | whppwhmt.p          |
| 4.4.12      | Item-Warehouse Inquiry           | whppwhiq.p          |
| 4.4.13      | Supplier Item Maintenance        | whppvpm.p           |
| 4.4.14      | Supplier Item Browse             | whbr009.p           |
| 4.4.15      | Supplier Item Report             | whppvprp.p          |
| 4.4.17      | Customer Item Status Maintenance | whppcmt.p           |
| 4.4.18      | Customer Item Status Browse      | whbr042.p           |
| 4.4.19      | Customer Item Status Report      | whcmicrp.p          |
| 4.5         | Sizing Menu...                   |                     |
| 4.5.1       | Alternate Unit of Measure Maint  | whummt.p            |
| 4.5.2       | Alternate Unit of Measure Browse | whbr010.p           |
| 4.5.3       | Alternate Unit of Measure Report | whumrp.p            |
| 4.5.5       | UM Group Maintenance             | whppugmt.p          |
| 4.5.6       | UM Group Browse                  | whbr011.p           |
| 4.5.7       | UM Group by Item Number Inquiry  | whppupiq.p          |
| 4.5.8       | UM Group Report                  | whppugrp.p          |
| 4.5.10      | UM Conversion Generation         | whppugen.p          |
| 4.5.12      | Base UM Check Report             | whppburp.p          |
| 4.6         | Algorithm Menu...                |                     |
| 4.6.1       | Algorithm Type Maintenance       | whalymt.p           |
| 4.6.2       | Algorithm Type Browse            | whbr044.p           |
| 4.6.3       | Algorithm Type Report            | whalryp.p           |
| 4.6.5       | Algorithm Master Maintenance     | whalmmt.p           |
| 4.6.6       | Algorithm Master Browse          | whbr043.p           |
| 4.6.7       | Algorithm Master Report          | whalrp.p            |
| 4.6.9       | Algorithm Assignment Maintenance | whalasmt.p          |
| 4.6.10      | Algorithm Assignment Browse      | whbr045.p           |
| 4.6.11      | Algorithm Assignment Report      | whalasp.p           |
| 4.6.13      | Put Away/Loc Find Simulation     | whpasim.p           |
| 4.6.15      | Picking Simulation               | whpksim.p           |
| 4.7         | Engine Menu...                   |                     |
| 4.7.1       | Transaction Type Maintenance     | whtrtmt.p           |

| <b>Menu</b> | <b>Menu Label</b>                | <b>Program Name</b> |
|-------------|----------------------------------|---------------------|
| 4.7.2       | Transaction Type Browse          | whbr054.p           |
| 4.7.3       | Transaction Type Report          | whtrwtrp.p          |
| 4.7.5       | Warehouse Trans Type Maintenance | whtrwmt.p           |
| 4.7.6       | Warehouse Trans Type Browse      | whbr055.p           |
| 4.7.7       | Warehouse Trans Type Report      | whwtmtrp.p          |
| 4.7.9       | Engine Processor – Order Display | whenpord.p          |
| 4.7.10      | Engine Processor – Date Display  | whenpdte.p          |
| 4.7.11      | Engine Processor – LotSerial/Ref | whenplrf.p          |
| 4.7.13      | Engine Workfile by Order Maint   | whenmt01.p          |
| 4.7.14      | Engine Workfile by Date Maint    | whenmt02.p          |
| 4.7.15      | Engine Workfile Browse           | whbr012.p           |
| 4.7.16      | Engine Workfile Report           | whenrp.p            |
| 4.7.18      | Failed Engine WorkFile Report    | whenfarp.p          |
| 4.7.21      | Engine History Menu...           |                     |
| 4.7.21.1    | Engine History Inquiry           | whenhiq.p           |
| 4.7.21.2    | Engine History by Order Inquiry  | whenh2iq.p          |
| 4.7.21.3    | Engine History by Date Inquiry   | whenh3iq.p          |
| 4.7.21.4    | Engine History Report            | whenhrp.p           |
| 4.7.21.23   | Engine History Delete/Archive    | whenup.p            |
| 4.7.24      | Engine Control                   | whenpm.p            |
| 4.8         | Process Menu...                  |                     |
| 4.8.1       | Movement Conf by Transaction     | whtrcf11.p          |
| 4.8.2       | Movement Conf by Location        | whtrcf12.p          |
| 4.8.3       | Movement Conf by Order           | whtrcf13.p          |
| 4.8.5       | Movement Confirmation Processor  | whtrcfp1.p          |
| 4.8.7       | Movement Confirmation Workbench  | whtrcf04.p          |
| 4.8.9       | Movement Confirmation and Inq    | whtrcf01.p          |
| 4.8.12      | Cycle Count Generation           | whicccgn.p          |
| 4.8.13      | Transaction Maintenance          | whtrmt.p            |
| 4.8.14      | Transaction Inquiry              | whtriq.p            |
| 4.8.16      | Inventory Detail Maintenance     | whicldmt.p          |
| 4.8.17      | Inventory Detail Inquiry         | whiciq01.p          |
| 4.8.19      | Trans Priority by Pre-Shipper    | whprsbst.p          |
| 4.8.23      | Transaction Hist Delete/Archive  | whtrup.p            |
| 4.9         | Reports Menu...                  |                     |
| 4.9.1       | Warehouse Transaction Inquiry    | whtriq.p            |
| 4.9.2       | Transaction History Inquiry      | whthiq.p            |
| 4.9.3       | Transactions by Type Inquiry     | whtriq10.p          |
| 4.9.4       | Transactions by Item Inquiry     | whtriq01.p          |
| 4.9.5       | Transactions by Bulk Pick Inq    | whtriq02.p          |
| 4.9.6       | Transactions by Reference Inq    | whtriq08.p          |
| 4.9.7       | Transactions by Location Inquiry | whtriq04.p          |
| 4.9.8       | Transactions by Location to Inq  | whtriq05.p          |
| 4.9.9       | Std Transaction by Ref Inquiry   | whicref.p           |

| <b>Menu</b> | <b>Menu Label</b>                | <b>Program Name</b> |
|-------------|----------------------------------|---------------------|
| 4.9.10      | Trans History by Order Inquiry   | whtriq03.p          |
| 4.9.11      | Transactions by WLG Report       | whtrrp02.p          |
| 4.9.12      | Trans History by Item Report     | whtrrp01.p          |
| 4.9.13      | Inventory Detail Inquiry         | whiciq01.p          |
| 4.9.15      | Reference Summary Inquiry        | whicpliq.p          |
| 4.9.16      | Referenced Detail Inquiry        | whiciq02.p          |
| 4.9.17      | Reference History Detail Inquiry | whiciq03.p          |
| 4.11        | Labor Management Menu...         |                     |
| 4.11.1      | Labor Management Setup Menu...   |                     |
| 4.11.1.1    | Task Maintenance                 | whlmtkmt.p          |
| 4.11.1.2    | Task Browse                      | whbr101.p           |
| 4.11.1.3    | Task Report                      | whlmtkrp.p          |
| 4.11.1.5    | Alternate Task Maintenance       | whlmatmt.p          |
| 4.11.1.6    | Alternate Task Browse            | whbr100.p           |
| 4.11.1.7    | Alternate Task Report            | whlmatrp.p          |
| 4.11.1.9    | Task Assignment Maintenance      | whlmtamt.p          |
| 4.11.1.10   | Task Assignment Browse           | whbr102.p           |
| 4.11.1.11   | Task Assignment Report           | whlmtarp.p          |
| 4.11.1.13   | Task Time Maintenance            | whlmttmt.p          |
| 4.11.1.14   | Task Time Browse                 | whbr103.p           |
| 4.11.1.15   | Task Time Report                 | whlmttrp.p          |
| 4.11.1.17   | Task Time Update                 | whlmstmt.p          |
| 4.11.3      | Labor Management User Menu...    |                     |
| 4.11.3.1    | User Warehouse Data Maintenance  | whlmusmt.p          |
| 4.11.3.2    | User Warehouse Data Browse       | whbr104.p           |
| 4.11.3.3    | User Warehouse Data Report       | whlmusrp.p          |
| 4.11.3.5    | Warehouse Group Maintenance      | whsyugmt.p          |
| 4.11.3.6    | Warehouse Group Inquiry          | whsyugiq.p          |
| 4.11.3.7    | Warehouse Group Report           | whsyugrp.p          |
| 4.11.3.9    | Warehouse Calendar Maintenance   | whlmcamt.p          |
| 4.11.3.10   | Warehouse Calendar Browse        | whbr106.p           |
| 4.11.3.11   | Warehouse Calendar Report        | whlmcarp.p          |
| 4.11.3.13   | User Work Location Group Maint   | whsyuwmt.p          |
| 4.11.3.14   | User Work Location Group Browse  | whbr105.p           |
| 4.11.3.15   | User Work Location Group Report  | whsyuwrp.p          |
| 4.11.1.5    | Alternate Task Maintenance       | whlmatmt.p          |
| 4.11.1.6    | Alternate Task Browse            | whbr100.p           |
| 4.11.5      | Transaction Priority Update      | whlmtaup.p          |
| 4.11.6      | Transaction Priority Workbench   | whlmtmgr.p          |
| 4.11.8      | Transaction Reassignment         | whbbusmt.p          |
| 4.11.12     | Labor Management Reports Menu... |                     |
| 4.11.12.1   | Next Task Inquiry                | whlmiq01.p          |
| 4.11.12.2   | Pending Tasks Inquiry            | whlmiq02.p          |
| 4.11.12.3   | Task by Completion Time Inquiry  | whlmiq03.p          |

| <b>Menu</b> | <b>Menu Label</b>                | <b>Program Name</b> |
|-------------|----------------------------------|---------------------|
| 4.11.12.4   | Task by Completion Date Inquiry  | whlmiq04.p          |
| 4.11.12.7   | Performance by Task Report       | whlmp02.p           |
| 4.11.12.8   | Performance by User Report       | whlmp03.p           |
| 4.11.12.13  | Task Load Report                 | whlmp01.p           |
| 4.11.13     | Labor Management Engine          | whlmpren.p          |
| 4.11.15     | Labor Management Workbench       | whlmtkwk.p          |
| 4.11.24     | Labor Management Control         | whlmcmt.p           |
| 4.13        | Order Management Menu...         |                     |
| 4.13.1      | Order Warehouse Data Maintenance | whommt.p            |
| 4.13.3      | SO Warehouse Data Maintenance    | whomsomt.p          |
| 4.13.4      | PO Warehouse Data Maintenance    | whompomt.p          |
| 4.13.5      | IR Warehouse Data Maintenance    | whomirmt.p          |
| 4.13.6      | DO Warehouse Data Maintenance    | whomdomt.p          |
| 4.13.7      | WO Issues Whse Data Maintenance  | whomwimt.p          |
| 4.13.8      | WO Receipts Whse Data Maint      | whomwrmt.p          |
| 4.13.10     | Allocated Order Warehouse Report | whomrp02.p          |
| 4.13.12     | Order Detail Report              | whomrp01.p          |
| 4.13.13     | Address Whse Detail Maintenance  | whaddmt.p           |
| 4.13.14     | Address Whse Detail Browse       | whbr051.p           |
| 4.13.15     | Address Whse Detail Report       | whaddrp.p           |
| 4.14        | Bulk Picking Menu...             |                     |
| 4.14.1      | Bulk Pick Order Selection        | whbpsel.p           |
| 4.14.2      | Bulk Picking Order Deselection   | whbpschg.p          |
| 4.14.4      | Bulk Picking Selection Approval  | whbpapp.p           |
| 4.14.3      | BP Pre-Shipper/Shipper Inquiry   | whbpsi.p            |
| 4.14.6      | Bulk Pick Maintenance            | whbpmt.p            |
| 4.14.7      | Bulk Picking Inquiry             | whbpiq.p            |
| 4.14.8      | Bulk Picking Report              | whbprp.p            |
| 4.14.10     | Bulk Pick Print                  | whbprp01.p          |
| 4.14.12     | Multiple Bulk Pick Print         | whbprp02.p          |
| 4.14.13     | Bulk Pick Transaction Inquiry    | whbptoiq.p          |
| 4.14.15     | Bulk Pick by SLG Inquiry         | whbpsliq.p          |
| 4.14.16     | Bulk Pick by WLG Inquiry         | whbpwliq.p          |
| 4.14.18     | Bulk Picking Shipping Menu...    |                     |
| 4.14.18.1   | Bulk Picking Pre-Shipper Inquiry | whbpp1iq.p          |
| 4.14.18.2   | Bulk Picking Pre-Shipper Report  | whbpp1rp.p          |
| 4.14.18.4   | Bulk Picking Pre-Shipper Print   | whbpsrp.p           |
| 4.14.18.6   | Multiple Bulk Pre-Shipper Print  | whbpp2rp.p          |
| 4.14.18.8   | Bulk Pre-Shipper Label Print     | whbps2rp.p          |
| 4.14.18.10  | Bulk Picking Shipping Forecast   | whbpfcs1.p          |
| 4.14.18.12  | Bulk Picking Pre-Shipper Reprint | whbphrp.p           |
| 4.14.18.13  | Bulk Pre-Shipper/Shipper Inquiry | whbpsi.p            |
| 4.14.18.15  | Bulk Pre-Shipper/Shipper Labels  | whbpslrp.p          |
| 4.14.21.    | Bulk Picking History Menu...     |                     |

| <b>Menu</b> | <b>Menu Label</b>                   | <b>Program Name</b> |
|-------------|-------------------------------------|---------------------|
| 4.14.21.1   | Bulk History Inquiry                | whbphsiq.p          |
| 4.14.21.2   | Bulk History Pre-Shipper Inquiry    | whbph1iq.p          |
| 4.14.21.3   | Bulk History Shipper Inquiry        | whbph2iq.p          |
| 4.14.21.4   | Bulk History Report                 | whbphsrp.p          |
| 4.14.21.23  | Bulk History Delete/Archive         | whbphsup.p          |
| 4.14.23     | Empty Bulk Pick Delete/Archive      | whbpup.p            |
| 4.14.24     | Bulk Picking Control                | whbppm.p            |
| 4.15        | Wave Planning/Batch Picking Menu... |                     |
| 4.15.1      | Wave Planning Setup Menu...         |                     |
| 4.15.1.1    | Lane Maintenance                    | whlanemt.p          |
| 4.15.1.2    | Lane Browse                         | whbr201.p           |
| 4.15.1.3    | Lane Report                         | whlanerp.p          |
| 4.15.1.5    | Lane Group Maintenance              | whlagpmt.p          |
| 4.15.1.6    | Lane Group Inquiry                  | whlagpiq.p          |
| 4.15.1.7    | Lane Group Report                   | whlagprp.p          |
| 4.15.1.9    | Workload Group Maintenance          | whlogpmt.p          |
| 4.15.1.10   | Workload Group Inquiry              | whlogpiq.p          |
| 4.15.1.11   | Workload Group Report               | whlogprp.p          |
| 4.15.1.13   | Lane Group Assignment               | whlaasmt.p          |
| 4.15.1.24   | Wave Planning Control               | whwaplpm.p          |
| 4.15.3      | Wave Selection                      | whwavemt.p          |
| 4.15.4      | Reports Menu...                     |                     |
| 4.15.4.1    | Order Whse Detail Status Inquiry    | whomstiq.p          |
| 4.15.4.3    | Wave Status Inquiry                 | whwastat.p          |
| 4.15.4.4    | Wave Detail Report                  | whwaverp.p          |
| 4.15.4.5    | Wave Open Order Inquiry             | whwaooiq.p          |
| 4.15.4.6    | Wave Unprocessed Orders Inquiry     | whwauniq.p          |
| 4.15.4.8    | Wave Task Inquiry                   | whwataiq.p          |
| 4.15.6      | Wave Replenishment                  | whwarpmt.p          |
| 4.15.8      | Wave Release                        | whwaremt.p          |
| 4.15.9      | Wave Release Groups Creation        | whwargmt.p          |
| 4.15.10     | Wave Release Groups Activation      | whwargac.p          |
| 4.15.11     | Wave Release Groups Inquiry         | whwargiq.p          |
| 4.15.13     | Wave Open Order Report              | whwaopr.p           |
| 4.15.15     | Wave Priority Boost                 | whwaprbo.p          |
| 4.15.17     | Wave Close                          | whwaclmt.p          |
| 4.15.18     | Wave Close Batch/Report             | whwaclrp.p          |
| 4.15.20     | Utility Menu ...                    |                     |
| 4.15.20.1   | Wave Planning Orders Initialize     | whwainit.p          |
| 4.15.20.3   | SO Container/Shipper ID Inquiry     | whabsiq.p           |
| 4.15.20.4   | Wave With Blank AbsID Report        | whwaut01.p          |
| 4.15.20.13  | Batch Picking Crash Recovery        | whcrabpk.p          |
| 4.15.20.23  | DO Shipper Delete/Archive           | whsdodel.p          |
| 4.15.23     | Wave Delete/Archive                 | whwaclup.p          |

| <b>Menu</b> | <b>Menu Label</b>                 | <b>Program Name</b> |
|-------------|-----------------------------------|---------------------|
| 4.15.24     | Batch Picking Control             | whbbpkpm.p          |
| 4.16        | Replenishment Menu...             |                     |
| 4.16.1      | Replenishment List Maintenance    | whrprgmt.p          |
| 4.16.2      | Replenishment List Browse         | whbr013.p           |
| 4.16.3      | Replenishment List Report         | whrpgrrp.p          |
| 4.16.5      | Replenishment Location Maint      | whrplimt.p          |
| 4.16.6      | Replenishment Location Browse     | whbr150.p           |
| 4.16.7      | Replenishment Location Report     | whrplirp.p          |
| 4.16.9      | Replenishment SLG Maintenance     | whrpsimt.p          |
| 4.16.10     | Replenishment SLG Browse          | whbr151.p           |
| 4.16.11     | Replenishment SLG Report          | whrpsirp.p          |
| 4.16.13     | Replenishment Request             | whrpreq.p           |
| 4.16.15     | On Line Replenishment             | whrpolmt.p          |
| 4.17        | Receipts/Transfers/Issues Menu... |                     |
| 4.17.1      | Warehouse Transfer By Reference   | whtrbref.p          |
| 4.17.2      | Warehouse Transfer - Ref Split    | whtrrspl.p          |
| 4.17.4      | Warehouse Transfer - Single Item  | whtrbite.p          |
| 4.17.8      | Reference Management              | whicrfwb.p          |
| 4.17.9      | Reference Generation              | whprigen.p          |
| 4.17.12     | Optimization Transfer             | whtropt.p           |
| 4.17.13     | Unplanned Issue Request           | whicunis.p          |
| 4.17.17     | Logistic Palletization/Transfer   | whtrpll.p           |
| 4.17.18     | DO Pelletization/Transfer         | whtrplld.p          |
| 4.17.20     | Pallet Constitution/Transfer      | whtrplcn.p          |
| 4.17.24     | Receipts/Transfers/Issues Control | whtrpm.p            |
| 4.19        | Quality/Inspection Menu...        |                     |
| 4.19.1      | Sample Inspection Maintenance     | whqasmt.p           |
| 4.19.2      | Sample Inspection Browse          | whbr160.p           |
| 4.19.3      | Sample Inspection Report          | whqasrp.p           |
| 4.19.5      | Sample Inspec Evaluation Report   | whqaevrp.p          |
| 4.19.6      | Inspected Inventory Report        | whqainrp.p          |
| 4.19.10     | Failed Inspections Inquiry        | whqafaiq.p          |
| 4.19.13     | Inspection Status Change Maint    | whqastmt.p          |
| 4.19.14     | Inspection Status Change Browse   | whbr161.p           |
| 4.19.15     | Inspection Status Change Report   | whqastrp.p          |
| 4.19.17     | Inspection History Maintenance    | whqainmt.p          |
| 4.19.23     | Inspection Hist Delete/Archive    | whqaup.p            |
| 4.19.24     | Quality/Inspection Control        | whqapm.p            |
| 4.21        | Printing Menu...                  |                     |
| 4.21.1      | Printing Setup Menu...            |                     |
| 4.21.1.1    | Print Banner Maintenance          | whprbnmt.p          |
| 4.21.1.2    | Print Banner Browse               | whbr216.p           |
| 4.21.1.3    | Print Banner Report               | whprbnrp.p          |
| 4.21.1.5    | Print Label Maintenance           | whprlbmt.p          |

| <b>Menu</b> | <b>Menu Label</b>                | <b>Program Name</b> |
|-------------|----------------------------------|---------------------|
| 4.21.1.6    | Print Label Browse               | whbr217.p           |
| 4.21.1.7    | Print Label Report               | whprlbrp.p          |
| 4.21.3      | Print Template Load              | whprtml.p           |
| 4.21.4      | Print Template Inquiry           | whprtmiq.p          |
| 4.21.5      | Print Template Report            | whprtmrp.p          |
| 4.21.7      | Print Request Maintenance        | whprmt.p            |
| 4.21.9      | User Printer Maintenance         | whprusmt.p          |
| 4.21.10     | User Printer Inquiry             | whprusiq.p          |
| 4.21.12     | Transaction/ID Reprint           | whprtrp.p           |
| 4.23        | Warehouse System Admin Menu...   |                     |
| 4.23.1      | Sequence Definition Maintenance  | whseqmt.p           |
| 4.23.2      | Sequence Definition Inquiry      | whseqiq.p           |
| 4.23.3      | Sequence Definition Report       | whseqrp.p           |
| 4.23.4      | Sequence Current Values Inquiry  | whsqiq01.p          |
| 4.23.6      | Program X-Reference Maintenance  | whexecmt.p          |
| 4.23.7      | Program X-Reference Inquiry      | whexeciq.p          |
| 4.23.8      | Program X-Reference Report       | whexecrp.p          |
| 4.23.10     | Local Exit Routines Setup        | whsylvp.p           |
| 4.23.12     | Verbosity Menu...                |                     |
| 4.23.12.1   | Verbosity Inquiry                | whsyvbiq.p          |
| 4.23.12.3   | Verbosity Report                 | whsyvbrp.p          |
| 4.23.12.23  | Verbosity Delete/Archive         | whsyvbup.p          |
| 4.23.13     | Warehouse Security Maintenance   | whwhsemt.p          |
| 4.23.14     | Warehouse Security Browse        | whbr040.p           |
| 4.23.15     | Warehouse Security Report        | whwhserp.p          |
| 4.23.17     | Barcode Prefix Maintenance       | whprefmt.p          |
| 4.23.18     | Barcode Prefix Inquiry           | whprefiq.p          |
| 4.23.19     | Barcode Prefix Report            | whprefrp.p          |
| 4.23.20     | EAN/UCC Barcode Testing          | whbctest.p          |
| 4.23.24     | Warehouse Control Tables Report  | whsypmrp.p          |
| 4.24        | Warehouse Management Control     | whsypm.p            |
| 4.25        | Miscellaneous Utilities          |                     |
| 4.25.1      | Rebuild Invent Master Records    | whutinw1.p          |
| 4.25.2      | Recalculate Location Full %      | whutfull.p          |
| 4.25.3      | Rebalance Expected In/Out Qty    | whutldex.p          |
| 4.25.4      | Container Creation Utility       | whutabmt.p          |
| 4.25.5      | Populate Order Whse Maint Tables | whominit.p          |
| 4.25.6      | Incomplete Hanging Tasks Report  | whtrrp03.p          |
| 4.25.7      | Hanging lad_det Report (No Task) | whutlad1.p          |
| 4.25.8      | Persistent Procedure Inquiry     | whsyppi.p           |

## RF Warehouse Menus

The menu for the RF is shown in the following table.

| <b>Menu</b> | <b>Menu Label</b> | <b>Program Name</b> |
|-------------|-------------------|---------------------|
| 1           | Work              |                     |
| 1.1         | Next Task         | whextaut.p          |
| 1.2         | Select Task       | whextman.p          |
| 1.3         | Transfer          | whexotf.p           |
| 1.4         | Location Audit    | whexaud.p           |
| 1.5         | Kanban Scan       | whexkan.p           |
| 1.6         | Eng Activation    | whexeng.p           |
| 1.7         | Preship Sel Task  | whextmas.p          |
| 1.8         | PO Receipt        | whexprc.p           |
| 1.9         | Stock Inquiry     | whrfite1.p          |
| 1.10        | On-Line SO Pick   | whtst.p             |
| 2           | Printing          |                     |
| 2.1         | Change Printers   | whrfprmt.p          |
| 2.2         | Reprint           | whrfprp.p           |
| 3           | Picking/Container |                     |
| 3.1         | BP Pick SO/DO     | whexbpk1.p          |
| 3.2         | BP Pick All       | whexbpk2.p          |
| 3.3         | Container Build   | whrfcons.p          |
| 3.4         | Container Move    | whxltr.p            |
| 3.5         | Ship Truck        | whrfshtr.p          |
| 3.6         | Pallet Explosion  | whrfpaex.p          |
| 3.7         | Item Move         | whrftrbx.p          |
| 3.8         | Print Paperwork   | whrfprpr.p          |
| 4           | Inspection        | whexinmt.p          |