

# User Guide

Infor ERP LX 8.3.2 and higher  
Infor SCM Warehouse Management  
BOSS 6.3

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This chapter discusses the requirements for using the Warehouse Management Adapter. It also discusses the issues in Infor ERP LX™, Infor SCM Warehouse Management BOSS™, and the Infor Warehouse Management Adapter that you should consider before using the adapter.

The chapter consists of the following topics:

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## Overview

The Infor Warehouse Management Adapter is a product that enables you to use Infor SCM Warehouse Management BOSS to perform shipping and receiving functions for orders created in Infor ERP LX. The Warehouse Management Adapter (WMA) transfers data between the two systems, allowing you to use your existing processes in Infor ERP LX and to maintain the warehouse inventory in Infor ERP LX for financial and accounting purposes.

The Infor SCM Warehouse Management BOSS product is an advanced warehouse management system for control of high-volume, large warehouse facilities. It is a stand-alone product that works in a relatively seamless environment with Infor ERP LX.

Infor SCM Warehouse Management BOSS maintains inventory at a very detailed level: by warehouse, by warehouse location, by item, and by lot number. The corresponding Infor ERP LX warehouse has inventory detail only down to the warehouse, item, and lot number. Infor SCM Warehouse Management BOSS requires all order and expected receipt quantities to be “eaches.” Order quantities sent to Infor SCM Warehouse Management BOSS for pick / pack / ship are based on Infor ERP LX allocated quantities and are converted to an “eaches” unit of measure (quantity) for processing in Infor SCM Warehouse Management BOSS.

All transactions occurring within Infor SCM Warehouse Management BOSS that have financial impact are recorded in the appropriate files. The WMA uploads the transaction records to Infor ERP LX so that all financial transactions and inventory valuation is handled within Infor ERP LX. The processes covered are:

- Customer and Resupply Order Shipping
- Purchase and Resupply Order Receiving
- Issues to Manufacturing
- Production Receipts
- Inventory Cycle Counts and Adjustments

An Infor SCM Warehouse Management BOSS-controlled warehouse can be used to store raw materials for production and/or for storing and shipping finished goods. It cannot be used to control a warehouse in which shop orders are being executed, since it does not handle backflushing and other manufacturing processes. This is similar to restrictions on an Infor ERP LX Managed Warehouse.

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Infor ERP LX includes additional edits for handling inventory for a Type=4 (Infor SCM Warehouse Management BOSS) warehouse. These edits restrict Infor ERP LX functionality to be consistent with Infor SCM Warehouse Management BOSS functionality and the capabilities of the process.

This chapter discusses the issues you should consider before you install Infor SCM Warehouse Management BOSS and the WMA. It also includes a complete list of the tasks you need to perform to set up the adapter. This chapter includes the following topics:

- Requirements – lists the software requirements.
  - General Considerations – describes issues applying to all applications to consider before using Infor SCM Warehouse Management BOSS.
  - Considerations for Specific Applications – describes issues applying to specific applications to consider before using Infor SCM Warehouse Management BOSS.
  - Setting Up the Warehouse Management Adapter – lists the tasks you must complete in Infor ERP LX, Infor SCM Warehouse Management BOSS, and the adapter before using them.
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## Requirements

The Infor Warehouse Management Adapter V2.2 requires ERP LX V8.3.2 or higher and Infor Warehouse Management BOSS 6.3. Both applications must be installed on the same System i.

Consult Infor Global Support Online for the latest updates on the required products, MRs, and incidents. The web address is <http://www.support.infor.com>.

The WMA uses Infor ERP LX Screen Navigator APIs (SNAPIs) for the programs listed below. You must be running the associated programs required for SNAPIs to perform uploads to Infor ERP LX.

- Inventory Transactions (INV500)
- Purchase Receipts (PUR550)
- Resupply Order Receipt (DRP550)

If you are using the AR Traffic Freight Management System within Infor SCM Warehouse Management BOSS, you also need the CO Special Line Gateway.

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## General Considerations

The WMA processes the exchange of information between Infor SCM Warehouse Management BOSS and Infor ERP LX Order Entry, Inventory, Purchasing, Shop Floor, and Resupply Order applications. Before you install and set up the adapter, review the following information, paying particular attention to the differences between Infor SCM Warehouse Management BOSS and Infor ERP LX formats and field sizes. Difference in the size and format of the quantity fields is especially significant.

Before setting up an Infor SCM Warehouse Management BOSS-controlled warehouse, review the following topics:

- Quantities and Unit of Measure Conversion
- System-Wide Considerations

## Quantities and Unit of Measure Conversion

Infor SCM Warehouse Management BOSS requires all entries into its quantity fields to be in “eaches.”

**Important!** We strongly recommend that you use eaches for all stocking and purchasing units of measure in Infor ERP LX for all item handled in Infor SCM Warehouse Management BOSS. If you do not, you will cause inventory discrepancies between the two systems that the adapter cannot reconcile.

If you do not use eaches, it is your responsibility, as a user, to provide an Infor ERP LX Unit of Measure conversion table that translates the stocking and purchasing units of measure into “eaches.” Use Unit of Measure Maintenance (INV123D) to create the table. Set the **Use in Manufacturing Applications** field in INV123D to Yes. The Infor SCM Warehouse Management BOSS interface falls into the manufacturing category along with inventory and WHM programs. Infor SCM Warehouse Management BOSS transactions use this field even if the transactions originate in customer orders, replenishment orders, or purchase orders. If you do not use eaches as the stocking unit of measure, the adapter uses the conversion table to change the quantity to eaches before sending it to Infor SCM Warehouse Management BOSS and reverses the process when you upload the shipment or actual receipt to Infor ERP LX.

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You must enter a Unit of Measure code for eaches when you enter your Infor ERP LX -WMA Parameters. The adapter looks for this code in the conversion table and on orders.

The quantity fields in Infor SCM Warehouse Management BOSS are integers. If you enter a decimal quantity on an order, or cause the calculation of a decimal quantity through unit of measure conversion, the adapter half-rounds to the nearest integer for download to Infor SCM Warehouse Management BOSS. The WMA converts quantities sent back to Infor ERP LX from the eaches UOM to the appropriate stocking or purchasing UOM, half-rounding when appropriate.

Rounding can cause discrepancies between the Infor ERP LX and Infor SCM Warehouse Management BOSS inventories. To correct these discrepancies in Infor ERP LX, use Inventory Transactions (INV500) and enter the special transaction code defined in the Infor ERP LX -Warehouse Management Adapter Operations Parameters. See Enter Operation Parameters for more information.

## System Wide Considerations

The following information applies to the Infor Warehouse Management Adapter for all affected applications:

- Infor ERP LX company number = Infor SCM Warehouse Management BOSS owner company (CNF112). For example, if you are using company 25 in Infor ERP LX, you must define company 25 to Infor SCM Warehouse Management BOSS.
  - WMA supports a warehouse ID up to 2 characters due to constraints in Infor SCM Warehouse Management BOSS receiving.
  - Infor SCM Warehouse Management BOSS uses a 15-character Item Number. Infor ERP LX uses 35 characters. WMA supports an Item Number up to the maximum number of characters supported by both applications. Therefore, WMA supports an Item Number up to 15 characters.
  - If an item in Infor ERP LX can have multiple company IDs associated with it, set up an Infor SCM Warehouse Management BOSS Item Master record for each Item/Company combination.
  - Infor SCM Warehouse Management BOSS site definition has no impact on Infor ERP LX.
  - The WMA supports lot control. Infor SCM Warehouse Management BOSS uses a 15-character Lot ID. Infor ERP LX uses 25 characters. The WMA
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supports a Lot ID up to the maximum number of characters supported by both applications. Therefore, WMA supports a Lot ID up to 15 characters.

Order lines which have no lot allocations, one specific lot number allocated, or multiple lot numbers allocated can be downloaded to Infor SCM Warehouse Management BOSS.

If an item is defined as lot controlled in Infor SCM Warehouse Management BOSS, the system forces you to specify a Lot ID in Infor SCM Warehouse Management BOSS processing, and returns this information to Infor ERP LX.

- The detail location-level inventory in Infor SCM Warehouse Management BOSS is *not* uploaded to Infor ERP LX. As part of the setup in Infor ERP LX, you must create a single location in the Type=4 warehouse. This location ID is controlled in Maintain Operation Parameters (GWB820D). When you upload inventory, this location is updated with summarized lot-, warehouse-, and item-level inventory information.
  - Infor SCM Warehouse Management BOSS does not accept the following types of items:
    - Kits
    - Assortments
    - Phantom items
    - Planning bill items
    - Non-balancing items
    - Container-controlled items
    - DWM items (Infor ERP LX functionality)
    - QMS non-lot-controlled items (Infor ERP LX functionality)
    - Post-shipment orders
    - Drop shipments
    - Items where allocations are not required. You can enter the items but you must manually allocate them before picking.
    - Configurator items
    - Returns or RMAs
    - Automatic shop order generation
    - Proof of Delivery (Infor ERP LX functionality, requiring OLM)
    - Order Classes that do not include a Pick Release Event (001, 002)
    - RMS Orders
    - Non-Inventory items
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- Infor SCM Warehouse Management BOSS requires you to define the physical characteristics of an Each, a Case, a Pallet, and, if applicable, two user-defined units of measure (UOM1 and UOM2).
  - The Infor SCM Warehouse Management BOSS Inventory Reconciliation System (IRS) is available to compare Infor SCM Warehouse Management BOSS inventory levels to Infor ERP LX inventory for warehouses designated as Infor SCM Warehouse Management BOSS-controlled.
  - All inventory transactions must be initiated within Infor SCM Warehouse Management BOSS and then uploaded to Infor ERP LX.
  - The WMA does not support the Infor ERP LX Warehouse Management (WHM) processing.
  - Order types, transactions codes, and so forth cannot contain special characters.
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# Considerations for Specific Applications

In addition to the system-wide considerations, review the following issues that apply to the various types of orders, shipments, receipts, and transfers that are exchanged between Infor ERP LX and Infor SCM Warehouse Management BOSS.

## Customer Order Considerations

The following information applies to customer orders:

- You cannot modify order lines at Ready to Pick Confirm status in Order Entry (ORD700) and you cannot change their allocations.
  - Every shipping order, including customer orders, must specify a carrier. The Infor ERP LX Carrier corresponds to the Infor SCM Warehouse Management BOSS Shipping Carrier (CNF120).
  - If you change a carrier on an order in Infor SCM Warehouse Management BOSS, the adapter will not update the order in Infor ERP LX. You will have to update the order to reflect the change in carrier in Infor ERP LX after you release the order from the control of Infor SCM Warehouse Management BOSS.
  - Customer orders shipping from an Infor SCM Warehouse Management BOSS-controlled warehouse skip the Ship Confirm step in Infor ERP LX because the shipment was already made in Infor SCM Warehouse Management BOSS.
  - Infor SCM Warehouse Management BOSS requires all entries into quantity fields in the adapter to be in “eaches” and to be integers. Infor SCM Warehouse Management BOSS does not support decimal quantities.
  - Infor ERP LX downloads orders to Infor SCM Warehouse Management BOSS when the orders are pick released.
  - The adapter sends the actual shipment data to Pick Confirmation (ORD570).
  - The adapter uses Infor ERP LX allocations, rather than the open order quantity, to determine the order amount that is sent to Infor SCM Warehouse Management BOSS for shipment.
  - Infor ERP LX can be updated with Infor SCM Warehouse Management BOSS shipment data after the manifest for the order has been confirmed in Infor SCM Warehouse Management BOSS.
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- This adapter does not support the Infor SCM Warehouse Management BOSS Shipping Line addition function. (The shipping line addition feature is the ability to add lines to a customer order in Infor SCM Warehouse Management BOSS.)
- The WMA does not support Return Material Authorization (RMA) returns to an Infor SCM Warehouse Management BOSS-controlled warehouse.
- The WMA does not support the interface of orders based on the Release Management System (RMS) of Infor ERP LX.
- The adapter does not support Infor ERP LX in-transit processing.
- The adapter does not support the advanced Outbound Logistics Management (OLM) capabilities available in Infor ERP LX but the OLM program Freight Terms Maintenance (OLM115) is used to define the freight terms passed from Infor ERP LX to Infor SCM Warehouse Management BOSS. Infor SCM Warehouse Management BOSS provides this function as described in the Infor SCM Warehouse Management BOSS documentation.
- When shipping order lines are released to Infor SCM Warehouse Management BOSS, the adapter gives them a pseudo-order header so that Infor SCM Warehouse Management BOSS will ship them together. Other order lines for the same Infor ERP LX order, released separately, process separately in Infor SCM Warehouse Management BOSS.
- The information supports the return of billable freight charges from Infor SCM Warehouse Management BOSS if you are using the AR Traffic Freight Management System. All other freight-related information is retained within Infor SCM Warehouse Management BOSS. See Chapter 7, "Other Interfaces," for additional information.
- If you use CalcRate or another freight rating system in Infor SCM Warehouse Management BOSS, and you use the adapter to send back freight charges, specify 0, interactive, in the *Post Mode* field on the Order Entry User Preference screen, ORD700D4-01, to ensure that special charge updates occur at the same time as other order updates. To access ORD700D4-01, use F15, User Preferences, on the Order Directory screen, ORD700D1-01.

## Purchasing and Receiving Considerations

The following information pertains to the Infor Warehouse Management Adapter for Infor SCM Warehouse Management BOSS for purchasing and receiving:

- All receipts into an Infor SCM Warehouse Management BOSS-controlled warehouse, whether for purchase orders or resupply orders, are made in
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Infor SCM Warehouse Management BOSS and the information is sent back to Infor ERP LX.

- Purchase order text and special charge lines do not appear on Infor SCM Warehouse Management BOSS expected receipts.
  - When a receipt is confirmed in Infor SCM Warehouse Management BOSS, the WMA can send the actual receipt data to Infor ERP LX.
  - The SNAPi process for purchase order receipts uses the PO receipt transaction type from the Infor ERP LX/Warehouse Management Adapter parameters. This transaction type is based on the Infor ERP LX reserved U transaction type. You must have the Advice Note/GRN Used flag turned off for this transaction type. This is the default value for the U transaction effect when you receive the product.
  - Infor SCM Warehouse Management BOSS requires all entries into quantity fields in the adapter to be in “eaches” and to be integers. When you download orders to Infor SCM Warehouse Management BOSS, the adapter converts decimal quantities in Infor ERP LX to integer eaches.
  - This adapter does not support the Receiving Line Addition function.
  - Receiving dispositions in Infor SCM Warehouse Management BOSS are used to determine which Locating Rule Set is used to put the product away. Infor SCM Warehouse Management BOSS receiving dispositions are *not* sent to Infor ERP LX. Infor ERP LX receiving dispositions perform a totally separate function and are not used as part of the Warehouse Management Adapter. All receipts are considered available inventory.
  - The WMA does not support either the Inbound Logistics Management processing of Infor ERP LX or Infor ERP LX Managed Warehouses (Type=1).
  - The WMA does not support the Infor ERP LX Quality Control/Inspection process.
  - Purchase order lines cannot specify receipt into Infor SCM Warehouse Management BOSS for non-inventory items.
  - The WMA does not support ordering a specific lot ID on a purchase order.
  - Set the receipt tolerance in Infor SCM Warehouse Management BOSS to be compatible with the settings in Infor ERP LX. If Infor SCM Warehouse Management BOSS accepts a receipt but the adapter into Infor ERP LX rejects it, you will have to reopen the closed line in Infor ERP LX and reprocess the upload from Infor SCM Warehouse Management BOSS. This can occur when the *Receive Excess Quantity* field in SCM Warehouse Management BOSS Receipt Type Definition (CNF122) is set to **Yes**.
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## Inventory Considerations

The following information applies to the WMA for inventory control and physical inventory:

- All inventory quantities must be transacted into Infor SCM Warehouse Management BOSS.
- Inventory adjustments in Infor SCM Warehouse Management BOSS can be uploaded to Infor ERP LX.
- Infor ERP LX physical inventory/cycle counting functions are not used for an Infor SCM Warehouse Management BOSS-controlled warehouse. These functions exist in Infor SCM Warehouse Management BOSS.
- If you try to make an inventory adjustment to an Infor SCM Warehouse Management BOSS warehouse using a standard transaction code in Infor ERP LX Inventory Transactions (INV500), you receive an error message and the transaction is rejected. However, if you enter the Transaction Type for Infor ERP LX Inventory Adjustments, as defined in Maintain WMA Operations Parameters, the transaction bypasses this check and you can enter an inventory adjustment.
- Inventory transaction codes in Infor SCM Warehouse Management BOSS are up to three characters in length; in Infor ERP LX they are two. If you use a three-character code in Infor SCM Warehouse Management BOSS, the adapter considers the transaction for posting in Infor SCM Warehouse Management BOSS only. It does not pass the transaction to Infor ERP LX. If you define and use a *two-character code* in Infor SCM Warehouse Management BOSS that matches the Infor ERP LX inventory transaction codes, the adapter passes the associated transactions to Infor ERP LX.

## Vendor Managed Inventory Considerations

An Infor SCM Warehouse Management BOSS-controlled warehouse cannot also be a Vendor Managed Warehouse.

## Resupply Order Considerations

The following information applies to the WMA for Resupply orders:

- The WMA process supports the manual creation of resupply orders via Order Entry (ORD700).
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- Creating a Resupply order is the equivalent of a shipment for the supply warehouse and an expected receipt in the replenished warehouse.
- Either the supply or replenished warehouse on the Resupply order, or both, can be Infor SCM Warehouse Management BOSS-controlled.
- The WMA and Infor SCM Warehouse Management BOSS handle Resupply orders shipping from an Infor SCM Warehouse Management BOSS-controlled warehouse in the same way they handle Customer Orders. (See the description and restrictions for Customer Orders.)
- Infor SCM Warehouse Management BOSS requires all entries into quantity fields in the adapter to be in “eaches” and to be integers. When you download orders to Infor SCM Warehouse Management BOSS, the adapter converts decimal quantities in Infor ERP LX to integer eaches.
- Infor ERP LX does not send Resupply order text lines to Infor SCM Warehouse Management BOSS.
- The receiving process for a Resupply Order into an Infor SCM Warehouse Management BOSS-controlled warehouse is identical to the process for expected receipts and actual receipts for a Purchase Order.
- Every shipping resupply order must specify a carrier. The Infor ERP LX Carrier corresponds to the Infor SCM Warehouse Management BOSS Shipping Carrier (CNF120).
- The adapter does not support Infor ERP LX in-transit processing.
- In shipping/receiving a resupply order where one or both of the warehouses are Infor SCM Warehouse Management BOSS-controlled, resolve discrepancies using inventory adjustments. Make the appropriate setting to the *Allow to Receive More than Shipped* field in DRP System Parameters (DRP820D) and the *Receive Excess Quantity* field in Infor SCM Warehouse Management BOSS in Receipt Type Definition (CNF122).
- Resupply orders shipping from an Infor SCM Warehouse Management BOSS-controlled warehouse skip the Ship Confirm step in Infor ERP LX because the shipment was already made in Infor SCM Warehouse Management BOSS.

## Shop Floor Considerations

The following information applies to the WMA for shop floor control:

- Shop order components allocated to Infor SCM Warehouse Management BOSS should not be de-allocated while the warehouse is processing the shop floor issue. Once created in Infor SCM Warehouse Management BOSS, shop floor issues are processed independently of Infor ERP LX,
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and when sent to the shop floor, are processed against the shop order by Inventory Transactions (INV500).

- Infor SCM Warehouse Management BOSS requires all entries into quantity fields in the adapter to be in “eaches” and to be integers. When you download orders to Infor SCM Warehouse Management BOSS, the adapter converts decimal quantities in Infor ERP LX to integer eaches.
- A shop floor issue must be allocated to be issued from an Infor SCM Warehouse Management BOSS-controlled warehouse.
- Infor SCM Warehouse Management BOSS requires an expected receipt to process an actual receipt. When you attempt to receive production, Infor SCM Warehouse Management BOSS determines that an expected receipt does not exist. It uses exit point processing to create the expected receipt from information on the shop order.
- The receiving warehouse and the shop floor facility must have the same facility code in Infor ERP LX.
- Updates to Infor ERP LX inventory occur when an actual receipt is uploaded to Infor ERP LX. Therefore, production reporting in Infor ERP LX for goods being received into Infor SCM Warehouse Management BOSS should use a transaction that does not update inventory. If you update inventory in Infor ERP LX for production received into Infor SCM Warehouse Management BOSS, you will overstate the Infor ERP LX inventory.
- For a component that is lot controlled, lot allocations made in Infor ERP LX are passed to Infor SCM Warehouse Management BOSS. For components with split lot allocations, multiple orders are generated in Infor SCM Warehouse Management BOSS.
- The WMA does not support the Infor ERP LX Quality Control/Inspection process.

## SNAPI Considerations

Error message text originating in the SNAPI processing is truncated to 64 characters due to constraints of the SNAPI.

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# Setting Up the Warehouse Management Adapter

After the installation of the appropriate Infor ERP LX, Infor SCM Warehouse Management BOSS, and WMA programs, you can begin the setup process.

To use the WMA you must have an established company in Infor ERP LX and an Infor SCM Warehouse Management BOSS-controlled warehouse with corresponding data. You must also set up the adapter with operation parameters.

You must have access to WMA and to the WMA22 menu to set up the operation parameters described below. Your System Administrator, or another operator with authority to Infor ERP LX Menu Maintenance (SYS147) and Security Master Maintenance (SYS600), can give you access to the adapter and to the menu set.

## Setup Tasks

Setting up your system to use the WMA includes reviewing your Infor ERP LX company to make sure it includes all the required transactions codes and unit of measure tables, reviewing your Infor SCM Warehouse Management BOSS setup and configuration, and entering the operation parameters in the adapter itself. The following sections discuss the setup in each application.

### Setup in Infor ERP LX

Review the Infor ERP LX company to make sure data is set up correctly to be transferred to Infor SCM Warehouse Management BOSS.

- In Infor ERP LX Warehouse Master Maintenance (INV110), define a warehouse as a Type=4 warehouse. Enter the following values for the Type=4 warehouse:
    - Set the *Default Warehouse Shipment Location* and *Warehouse Receipt Location* to the same value as the *Forced Infor ERP LX Warehouse Location* in the Maintain WMA Operation Parameters (GWB820D) program.
    - *Allocation Required* – enter 1 to require allocation.
    - *Allocatable Warehouse* – enter 1.
    - *Consignment on Inventory* – enter 0.
-

- *Consignment on PO Reject – 0.*
- Define an output queue for this warehouse on a System i™ computer that is cleared periodically. Infor SCM Warehouse Management BOSS generates its own paperwork. It does not use the paperwork generated in Infor ERP LX, so you can clear the print jobs generated by Infor ERP LX programs for the Type=4 warehouse.
- If they do not already exist, create receiving transaction codes and order types for items processed by Infor SCM Warehouse Management BOSS, including shop floor issues.
- Define an inventory transaction code for inventory adjustments uploaded to Infor ERP LX. Define a second inventory transaction code that allows you to make adjustments to Infor ERP LX inventory without affecting Infor SCM Warehouse Management BOSS inventory. As an example, use this second transaction code for adjustments you need to make for rounding discrepancies.
- Define carrier codes that apply to all orders shipped from the Infor SCM Warehouse Management BOSS warehouse, including shop floor issues.
- If they do not already exist, define the products that are processed through Infor SCM Warehouse Management BOSS.
- If they do not already exist, enter the Lot IDs for the products that are lot-controlled.
- Define all stocking and purchasing units of measure in Infor ERP LX as eaches.

**Important!** Infor strongly recommends that you use eaches for all stocking and purchasing units of measure in Infor ERP LX for all items handled in Infor SCM Warehouse Management BOSS. If you do not, you will cause inventory discrepancies between the two systems that the adapter cannot reconcile.

If you do not use eaches, it is your responsibility, as a user, to provide an Infor ERP LX Unit of Measure conversion table that translates the stocking and purchasing units of measure into “eaches.” Use Unit of Measure Maintenance (INV123D1) to create the table. If you do not use eaches as the stocking unit of measure, the adapter uses the conversion table to change the quantity to eaches before sending it to Infor SCM Warehouse Management BOSS and reverses the process when you upload the shipment or actual receipt to Infor ERP LX.

- In Infor ERP LX Warehouse Location Master Maintenance (INV170) create only one warehouse location for a Type=4 warehouse. The warehouse location name must match the value in Maintain WMA Operation Parameters (GWB820D). An Infor ERP LX warehouse controlled via Infor SCM Warehouse Management BOSS must have only
-

one, specified inventory location. This location cannot be changed after inventory transactions are made in the new warehouse.

- In Infor ERP LX Warehouse Master Maintenance (INV110) enter the following values for the Type=4 warehouse:

Set the *Default Warehouse Shipment Location* and *Warehouse Receipt Location* to the same value as the *Forced Infor ERP LX Warehouse Location* in the Maintain WMA Operation Parameters (GWB820D) program.

- *Allocation Required* – enter 1 to require allocation.
- *Allocatable Warehouse* – enter 1.
- *Consignment on Inventory* – enter 0.
- *Consignment on PO Reject* – 0.

## Setup in Infor SCM Warehouse Management BOSS

Create the corresponding codes, types, products, warehouses, and lot IDs in Infor SCM Warehouse Management BOSS and name them with the exact same names as those in Infor ERP LX. Create a Carrier Code for shop floor issues and enter Y in the *Shop Floor Work Order* field. Follow the Warehouse, Item, Receiving, and Shipping Setup procedures in the *Warehouse BOSS Setup Guide*.

## Setup in the Warehouse Management Adapter

Set up operation parameters in the WMA. See Enter Operation Parameters for specific information. The adapter uses the parameters to map data into Infor SCM Warehouse Management BOSS and to send information back to Infor ERP LX. For example, you must enter a Purchase Order Receipt type that is valid in Infor SCM Warehouse Management BOSS so that when you send an expected receipt from Infor ERP LX, the warehouse recognizes it as a specific type of receipt.

Manually enter products in the Infor SCM Warehouse Management BOSS Item Maintenance (ADM100). The PBS Item Maintenance described in the *Warehouse BOSS Setup Guide* does *not* work with the WMA.

## Create the Initial Inventory

To create the initial inventory in the new Infor ERP LX /Infor SCM Warehouse Management BOSS warehouse, manually transact inventory into Infor Warehouse Management BOSS; then update the Infor ERP LX inventory using Upload Inventory Adjustments to Infor ERP LX (GWB610D).

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## Use Other Interfaces with ERP LX and Warehouse Management BOSS

See Chapter 7, “Other Interfaces,” if you are using the optional Infor ERP LX module ECM or the third-party freight management system AR Traffic.

## Enter Operation Parameters

Install and set up Infor SCM Warehouse Management BOSS before you enter the operation parameters. If you do not, the system cannot edit your entries. All fields on the adapter parameters panels are required and are edited against the appropriate Infor ERP LX and Infor SCM Warehouse Management BOSS files.

Complete the following steps to enter operation parameters for the WMA.

- 1 Access the Infor ERP LX Warehouse Management Adapter Display/Maintenance (GWB820D) program. The system displays the first Warehouse Management Adapter Parameters screen (GWB820D-03). Specify that this is Warehouse Type 4=WHB and press **Enter** to display the first parameter input panel.
- 2 The system displays the Infor ERP LX -Warehouse Management Adapter Parameters (GWB820D-01) panel in display mode.
- 3 Press **F14=Revise** to change to Revise mode.

```

GWB820D-01      ** V8.3.2 Warranty Environment **      QPADEV0023  6/29/07
Revise          Warehouse Management Adapter Parameters  ENGD        07:21:00

Warehouse Type                                4

Warehouse Management Adapter is Active        █ (0=No 1=Yes)

WMA Parameters (Download)
Purchase Orders Receipt Type                  ERT +
Resupply Orders Receipt Type                 RPO +
Shop Orders Receipt Type                     MFG +
Material Issue Order Type                    MOT +
Material Issue Carrier                       SHOP ORDER +
Next Available Material Issue Number         9
Linear Unit of Measure                       ET +
Weight Unit of Measure                       LB +
Default Packaging Type                        BOX

F1=Help  F3=Exit  F4=Prompt  F5=Refresh  F6=Accept  F12=Previous

```

Figure 1-1: GWB820D-01, Warehouse Management Adapter Parameters

- 4 The Warehouse Type appears at the top of the screen. Enter the following information to set up the operation parameters. All fields are required:

*Warehouse Management Adapter is active (1,N)*

Enter 1 to activate the adapter.

**WMA Parameters (Download):** The adapter uses the following information to map data from Infor ERP LX to Infor SCM Warehouse Management BOSS. Entries in the following fields cannot contain special characters

*Purchase Orders Receipt Type (3,A)*

Required. Enter a value that is valid in Warehouse BOSS Receipt Type Definition (CNF122). The system edits your entry against the Infor SCM Warehouse Management BOSS WRTYB file.

*Resupply Orders Receipt Type (3,A)*

Required. Enter a value that is valid in Warehouse BOSS Receipt Type Definition (CNF122). The system edits your entry against the Infor SCM Warehouse Management BOSS WRTYB file.

*Shop Orders Receipt Type (3,A)*

Required. Enter a value that is valid in Warehouse BOSS Receipt Type Definition (CNF122). The system edits your entry against the Infor SCM Warehouse Management BOSS WRTYB file.

*Material Issue Order Type (3,A)*

Required. Enter a value that is valid in Warehouse BOSS Shipping Order Type Definition (CNF123). The system edits your entry against the Infor SCM Warehouse Management BOSS WOTYB file.

*Material Issue Carrier (10,A)*

Required. Enter a value that is valid in Carrier Definition (CNF120). The system edits your entry against the Infor SCM Warehouse Management BOSS WCARB file.

*Next Available Material Issue Number (8,N)*

Required. The adapter uses this field to assign identifying numbers to material issues downloaded to Infor SCM Warehouse Management BOSS. Enter the beginning number. The adapter automatically increases these numbers.

The WMA uses the following fields for the upload of EDI information from Infor SCM Warehouse Management BOSS to the ECM:

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*Linear Unit of Measure (2,A)*

Required. Enter the unit of measure for the outside dimensions of an item, as stored in the Infor SCM Warehouse Management BOSS Item Master. The WMA uses this unit of measure for the numeric dimensions that appear on an order shipped from Infor SCM Warehouse Management BOSS. The unit of measure is validated against the Infor ERP LX Unit of Measure Table.

*Weight Unit of Measure (2,A)*

Required. Enter the unit of measure for the weight of an item as stored in the Infor SCM Warehouse Management BOSS Item Master. The WMA uses this unit of measure for the weight that appears on an order shipped from Infor SCM Warehouse Management BOSS. The unit of measure is validated against the Infor ERP LX Unit of Measure Table.

*Default Packaging Type (6,A)*

Required. Enter a default packaging type for shipping cartons in Infor SCM Warehouse Management BOSS. If no packaging type appears on an order, the adapter uses this type.

- 5 Press **Enter**. The system displays the Warehouse Management Adapter Parameters screen (GWB820D-02) screen.

GWB820D-02	** V8.3.2 Warranty Environment **	QPADEV001Q	7/
Revise	Warehouse Management Adapter Parameters	ENGD	14:
Warehouse Type		4	
Infor ERP LX Parameters (Upload)			
Single Issue Transaction Type		<u>I</u> +	
Production Receipt Transaction Type		<u>PR</u> +	
P0 Receipt Transaction Type		<u>ER</u> +	
Additional Infor ERP LX Parameters			
Forced Infor ERP LX Warehouse Location		WHBOSS	
Unit of Measure (eaches)		<u>EA</u> +	
Tran Type for Infor ERP LX Inventory Adjustments		<u>A5</u> +	
Special Charge Code		<u>48</u> +	
F1=Help F3=Exit F4=Prompt F5=Refresh F6=Accept F12=Previous			

Figure 1-2: GWB820D-02, Warehouse Management Adapter Parameters

- 6 Enter the following information:

**Infor ERP LX Parameters (Upload)**

The adapter uses the following information to map data from Infor SCM Warehouse Management BOSS to Infor ERP LX.

*Single Issue Transaction Type (2,A)*

Enter a value that is valid in Infor ERP LX Transaction Effect Maintenance (INV150D1) and that applies to issue of material to an Infor ERP LX work order. The system edits your entry against the Infor ERP LX Transaction Type in file ITE.

*Production Receipt Transaction Type (2,A)*

Enter a value that is valid in Infor ERP LX Transaction Effect Maintenance (INV150D1) and that applies to receiving product from a work order directly into a warehouse. The system edits your entry against the Infor ERP LX Transaction Type in file ITE.

*PO Receipt Transaction Type (2,A)*

Enter a value that is valid in Infor ERP LX Transaction Effect Maintenance (INV150D1) and that applies to receiving a PO receipt. The system edits your entry against the Infor ERP LX Transaction Type in file ITE.

**Additional Infor ERP LX Parameters**

*Forced Infor ERP LX Warehouse Location (6,A)*

Required. Enter a name for the location. This must be the only location defined in the Type=4 warehouse. When you upload inventory, this location is updated with lot, warehouse, and product level inventory information. After you accept your entries on this panel you cannot change this value.

Enter this same value in Infor ERP LX Warehouse Master Maintenance (INV110) in the *Default Warehouse Shipment Location* and *Warehouse Receipt Location* fields for the Type=4 warehouse.

*Unit of Measure (eaches) (2,A)*

Enter a unit of measure code for eaches. The adapter searches for this code on orders and in the Unit of Measure Conversion table. The adapter sends all Infor ERP LX transactions to Infor SCM Warehouse Management BOSS in this unit of measure and converts all transactions it sends back to Infor ERP LX from this to the original unit of measure.

You must define in Infor ERP LX a conversion to and from this unit of measure for all Infor ERP LX order, shipment, and receipt units. Use Unit of Measure Maintenance (INV123D1) to create a table.

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*Tran Type for Infor ERP LX Inventory Adjustments (2,A)*

Enter a value that is valid in Infor ERP LX Transaction Effect Maintenance (INV150D1). The system edits your entry against the Infor ERP LX Transaction Type in file ITE. When you enter this transaction code in Inventory Transactions (INV500D1), you can make an inventory adjustment to a Type=4 warehouse in Infor ERP LX that does not effect Infor SCM Warehouse Management BOSS.

*Special Charge Code (2,A)*

Specify the special charge code to use to create special charge lines for freight on customer orders.

**7 Press F6=Accept** to save your entries.

The operation parameters described above are stored in the General Parameter File (ZPA) in records. The Parameter File Keys for these records have a prefix of **WM4** and a suffix that describes their use. The data is stored in the Parameter File Data field. For example, the record with the Parameter File Key WM4ACTIV holds a value in the Parameter File Data field which indicates whether the interface is active or inactive. An additional ZPA record with the Parameter File Key of WM4FEAT was provided in MR 72800. There is a value of **1** in the first position of the Parameter Data field. This value indicates that multiple lots functionality is implemented in the Infor ERP LX Locate Inventory for Allocations program (SFC734B) as part of WMA 2.2.

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This chapter discusses customer and resupply orders and the process for handling them with the Infor Warehouse Management Adapter.

The chapter consists of the following topics:

<b>Topic</b>	<b>Page</b>
Overview	2-2
Customer/Resupply Order Process Flow	2-3
Send Customer/Resupply Orders to Infor SCM Warehouse Management BOSS	2-4
Send Actual Shipments to Infor ERP LX	2-6
Upload Shipped Orders to Infor ERP LX (GWB510D)	2-7

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## Overview

The WMA enables you to download customer and resupply orders entered through Order Entry (ORD700) to an Infor Warehouse Management BOSS-controlled warehouse for picking, packing, and shipping operations. The adapter downloads orders to the warehouse as part of the Pick Releases process.

When the orders are shipped, use the adapter to select the actual shipment information to send back to Infor ERP LX. The adapter uploads the actual shipment records and makes adjustments to allocations in Infor ERP LX.

The adapter handles resupply orders shipped *from* Infor SCM Warehouse Management BOSS in the same way it handles customer orders.

Review Chapter 1, “Overview,” for a discussion of additional considerations and setup instructions before you attempt to send orders to Infor SCM Warehouse Management BOSS.

See Chapter 6, “Error Processing,” for information on handling errors that may occur when you download orders to Infor SCM Warehouse Management BOSS, during warehouse processing, or when you upload actual shipments.

If you are using the AR Traffic Freight Management System within Infor SCM Warehouse Management BOSS or if you are using the Electronic Commerce Manager (ECM) module for EDI transmissions, see Chapter 7, “Other Interfaces.”

This chapter discusses downloading customer and resupply orders from Infor ERP LX to Infor SCM Warehouse Management BOSS and returning the actual shipment information to Infor ERP LX.

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# Customer/Resupply Order Process Flow

The following diagram outlines the process flow for downloading either a customer order or a resupply order from Infor ERP LX to an Infor SCM Warehouse Management BOSS-controlled warehouse for shipment. It also shows the process for sending the actual shipment information from the warehouse back to Infor ERP LX.

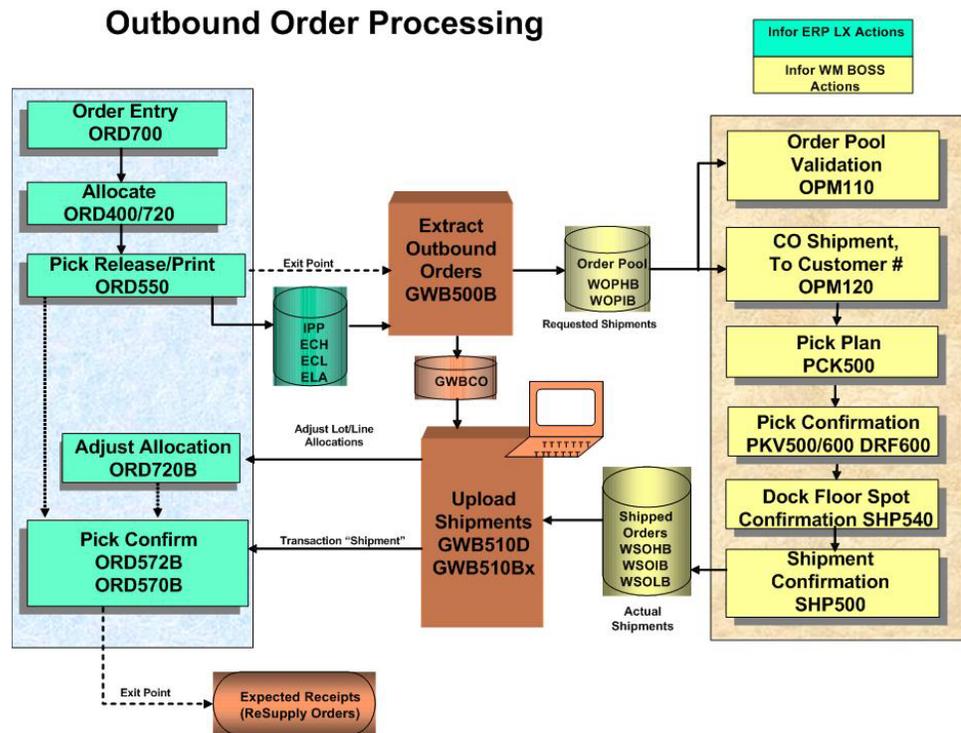


Figure 2-1: Outbound Order Processing

## Send Customer/Resupply Orders to Infor SCM Warehouse Management BOSS

The process of sending an order for shipment from Infor SCM Warehouse Management BOSS includes order entry and allocation programs in Infor ERP LX and WMA programs that map the data between the two systems. After you enter the order, allocate the order lines, and pick release the order in Infor ERP LX, the download process is automatic. The adapter looks for orders for a Type=4 warehouse and sends the order information to Infor SCM Warehouse Management BOSS. The process includes the following:

- Enter an order for a warehouse Type=4 in Order Entry (ORD700). The order entry program edits the order to see that it meets the requirements for a Type=4 warehouse.
- Orders sent to Infor SCM Warehouse Management BOSS must be at least partially allocated. You can use Infor ERP LX programs On-line Allocation (ORD720) or Batch Order Allocation (ORD400) to allocate the order
- Release order lines using Pick Release/Print (ORD550). Order lines with at least partial allocations are set to status 01000. You cannot change the allocation on an order line for a Type=4 warehouse when the status is 01000.
- At the end of the pick release process, the system executes an Infor ERP LX exit point, passing the warehouse ID and the picking ticket number to the GWB500B program.
- GWB500B passes the shipment quantity to Infor SCM Warehouse Management BOSS. If an order is partially allocated, the program passes the quantity that is the lesser of the quantity allocated and the quantity released for picking on the order.

If the adapter encounters errors, or if Infor SCM Warehouse Management BOSS rejects an order or order line, the order/line cannot be processed. See Chapter 6, "Error Processing," for more information.

## Enter Customer/Resupply Orders in Infor ERP LX

The adapter maps the order information entered in Infor ERP LX to the Infor SCM Warehouse Management BOSS order pool management files. If the information on the order, such as the Facility and the Carrier Code, do not match the information in Infor SCM Warehouse Management BOSS, the warehouse rejects the order.

---

Infor SCM Warehouse Management BOSS expects order quantities to be “eaches.” If your stocking unit of measure is not eaches, provide a conversion to eaches in Unit of Measure Maintenance (INV123D1). See Enter Operation Parameters in Chapter 1, “Overview.” If you set up a conversion table, the adapter converts the quantity to eaches.

## Lot Allocations

Orders sent to Infor SCM Warehouse Management BOSS can have a single lot number allocated, multiple lot numbers allocated, or no specific lot numbers allocated to an order line.

If an order line has split lot allocations, the WMA program creates a separate order line for each lot to be issued. When you upload the shipment information to Infor ERP LX, the WMA adjusts the lot allocations.

In Infor SCM Warehouse Management BOSS processing, the system forces you to assign a lot number if an item is flagged as lot controlled. The lot numbers are included in the information uploaded to Infor ERP LX and adjustments are made to allocations within Infor ERP LX.

## Resupply Orders

Resupply orders for shipment from an Infor SCM Warehouse Management BOSS-controlled warehouse must have a Base Order Type=9, as defined in Infor ERP LX, and a Base Order Class of 4, 5, or 10.

For a resupply order, enter a Type=4 warehouse for the Ship From Warehouse.

---

## Send Actual Shipments to Infor ERP LX

The adapter downloads customer and resupply orders to the Infor SCM Warehouse Management BOSS order pool management files. Once in Infor SCM Warehouse Management BOSS, an order is out of the control of Infor ERP LX. Infor SCM Warehouse Management BOSS programs perform the pick, pack, and ship operations. When the shipment is confirmed in Infor SCM Warehouse Management BOSS, use the Upload Shipped Orders to Infor ERP LX (GWB510D) program to select records to send back to Infor ERP LX. The process of sending actual shipment records to Infor ERP LX includes the following:

- Use the Infor SCM Warehouse Management BOSS programs to process the order through shipment confirmation and move the actual shipment records to the WSOHB, WSOIB, or WSOLB files.
  - Use the Upload Shipped Orders to Infor ERP LX (GWB510D) program to select the warehouse and order type for upload.
  - All quantities in Infor SCM Warehouse Management BOSS are eaches. If necessary, the adapter converts the eaches shipped to the unit of measure specified in Infor ERP LX.
  - The adapter uploads all the actual shipment transaction records, including those you release through error processing, to Pick Confirm (ORD570) at Ready to Invoice status.
-

## Upload Shipped Orders to Infor ERP LX (GWB510D)

Use Upload Shipped Orders to Infor ERP LX (GWB510D) to move actual shipments made and posted in Infor SCM Warehouse Management BOSS back into Infor ERP LX using the Allocation Adjustment and Pick Confirmation process.

Quantities in Infor SCM Warehouse Management BOSS are in eaches. If the stocking unit of measure in Infor ERP LX is not eaches, the adapter converts eaches to the unit of measure specified on the order line, half-rounding for partial quantities.

You can use a selection screen to choose orders or you can use batch scheduling to initiate the upload.

Complete the following steps to upload shipped orders to Infor ERP LX:

- 1 Access Upload Shipped Orders to Infor ERP LX (GWB510D). The system displays the Upload Shipped Orders to Infor ERP LX (GWB510D-01) screen.

```

GWB510D-01      ** V8.3.2 Warranty Environment **      QPADEV0023  6/29/07
SSAUSCH0        Upload Shipped Orders to Infor ERP LX  ENGD      10:49:33

Select actions, warehouse and press Enter.  1=Select

█ Customer Order Shipment
— Resupply Shipment
— Shop Order Material Issue

Selected Warehouse      ___ +

Run Time Parameter    1 (0=Interactive 1=Batch)

F1=Help  F3=Exit  F4=Prompt  F6=Accept

```

Figure 2-2: GWB510D-01, Upload Shipped Orders to Infor ERP LX

- 2 Use the following fields to select the actual shipments to upload to Infor ERP LX.

*Action field in front of shipment types (2,A)*

Enter 1 next to the shipment types to upload to Infor ERP LX. Shipment types are:

- Customer Order Shipment
- Resupply Shipment
- Shop Order Material Issues

*Selected Warehouse (4,A)*

Enter the Warehouse ID for upload.

*Run Time Parameter (1,N)*

Enter one of the following:

- 0**            Run the job interactively
- 1**            Run the job in batch

**3** Press **F6=Accept** to run the job to upload shipped orders to Infor ERP LX.

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# Chapter 3 Expected and Actual Receipts

# 3

This chapter discusses processing receipts against Infor ERP LX purchase and resupply orders into Infor SCM Warehouse Management BOSS using the Warehouse Management Adapter.

The chapter consists of the following topics:

<b>Topic</b>	<b>Page</b>
Overview	3-2
Purchase Orders	3-3
Resupply Orders	3-6

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## Overview

The WMA enables you to receive material against Infor ERP LX purchase and resupply orders into an Infor SCM Warehouse Management BOSS-controlled warehouse. The Infor ERP LX purchase order processing programs send detail of the expected receipts through the adapter to Infor SCM Warehouse Management BOSS. When the actual receipts are processed in Infor SCM Warehouse Management BOSS, use the adapter programs to send the information back to Infor ERP LX.

The adapter also processes resupply orders that are received into an Infor SCM Warehouse Management BOSS-controlled warehouse.

Review Chapter 1, "Overview," for a discussion of additional considerations and setup instructions before you attempt to send expected receipts to Infor SCM Warehouse Management BOSS.

See Chapter 6, "Error Processing," for information on handling errors that may occur when you download expected receipts to Infor SCM Warehouse Management BOSS, during Infor SCM Warehouse Management BOSS processing, or when you upload actual receipts.

This chapter discusses downloading expected receipts, for both purchase and resupply orders, from Infor ERP LX to Infor SCM Warehouse Management BOSS and returning the actual receipt information to Infor ERP LX.

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# Purchase Orders

In order for you to use Infor SCM Warehouse Management BOSS to receive material against purchase orders created in Infor ERP LX, the purchase order information must be sent from Infor ERP LX to Infor SCM Warehouse Management BOSS. When the receipt is complete, the actual receipt information must be sent back to Infor ERP LX.

## Purchase Order/Receiving Process Flow

The following diagram outlines the process flow for downloading a purchase order from Infor ERP LX to an Infor SCM Warehouse Management BOSS-controlled warehouse. It also shows the process for sending the actual receipt information from the warehouse back to Infor ERP LX.

### Purchase Order/Receiving Processing

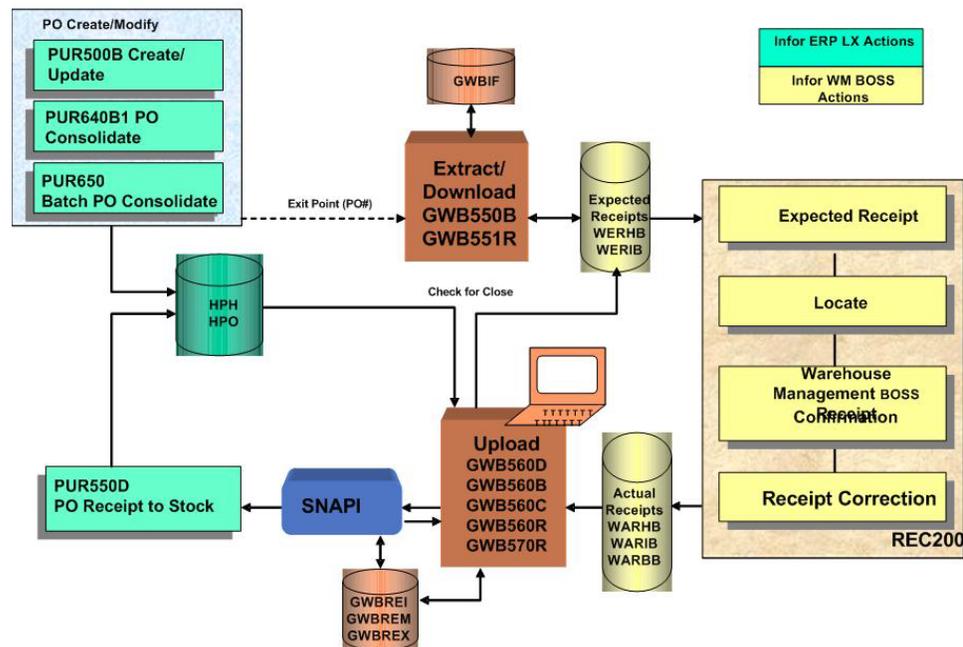


Figure 3-1: Purchase Order/Receiving Processing

## Send Expected Receipts to Infor SCM Warehouse Management BOSS

The process of sending an expected receipt to Infor SCM Warehouse Management BOSS includes the purchase order create programs in Infor ERP LX and adapter programs that map the data between the two systems. After you create, modify, or close a purchase order in Infor ERP LX, the download process is automatic. The adapter looks for purchase orders for a Type=4 warehouse and sends the order information to Infor SCM Warehouse Management BOSS. The process includes the following:

- Create, close, or modify a purchase order for a warehouse Type=4 in one of the purchase order maintenance programs: Purchase Order Release/Maintenance (PUR500C), Purchase Order Consolidation/Release (PUR640B), or Requisition Release (PUR650C). The purchase order/requisition program edits the order to see that it meets the requirements for a Type=4 warehouse.
- When you create, close, or modify a purchase order or requisition, the system executes an Infor ERP LX exit point to download the information. The download process includes the following:
  - Extracting the purchase order header and line from the Infor ERP LX database.
  - Comparing the header and line data to the corresponding Infor SCM Warehouse Management BOSS data.
  - Adding, updating, or closing records in Infor SCM Warehouse Management BOSS to reflect the current Infor ERP LX expected receipts for this purchase order line.
  - If the purchasing unit of measure is not eaches, the adapter converts the order quantity to eaches, using the unit of measure conversion table.

If the adapter encounters errors, the order cannot be processed. See Chapter 6, “Error Processing,” for more information.

## Send Actual Receipts to Infor ERP LX

When the expected receipt information is in the Infor SCM Warehouse Management BOSS database, you can receive material against it. All receipt processing is done within Infor SCM Warehouse Management BOSS. You cannot use Purchase Order Release/Maintenance (PUR550D) to receive material against a purchase order for a Type=4 warehouse. All receipts for a

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Type=4 warehouse must be made in Infor SCM Warehouse Management BOSS.

To send the actual receipt information to Infor ERP LX, use Upload Actual Receipts to Infor ERP LX (GWB560D). The upload program extracts the actual receipt data, including records released by error processing, from the Infor SCM Warehouse Management BOSS database and sends it to the SNAPI that drives Purchase Receipts (PUR550D). Included in the actual receipt data for purchase orders is the rejected quantity, if any.

The SNAPI process for purchase order receipts uses the PO receipt transaction type from the Infor ERP LX/Warehouse Management Adapter parameters. This transaction type is based on the reserved U Transaction type. You must have the Advice Note/GRN Used flag turned off for this transaction type. This is the default value for the U transaction type when you receive the product. If you change this value, the SNAPI cannot process purchase order receipts.

Note that there are transactions in which you must provide Advice Note information and a date, even when the Advice Note/GRN flag is turned off, so this information must be passed back to Infor ERP LX in another manner. You can provide this information in the *Comment* field in the REC200 Receive screen. Enter the data as follows:

Field Positions	Value to Provide
First 6 positions (1-6)	Transaction Date in YYMMDD format, or, if you are not entering a date, fill the first six positions with zeroes (000000).
Next 15 positions (7 through 21):	Advice Note Number or the GRN Number.  For PO receipt transactions that do not require these values, the information will simply be stored if you provide it.

If the SNAPI cannot process the actual receipt, the WMA program writes an error record to the GWBERR file. See Chapter 6, "Error Processing," for more information.

# Resupply Orders

By using the WMA you can receive resupply orders in Infor SCM Warehouse Management BOSS against resupply orders created in Infor ERP LX. The WMA includes programs that transfer data for the expected receipts to Infor SCM Warehouse Management BOSS and programs that send the actual receipt information to Infor ERP LX. The following topics describe these processes.

## Resupply Order Receiving Process Flow

The following diagram outlines the process flow for downloading a resupply order from Infor ERP LX to an Infor SCM Warehouse Management BOSS-controlled warehouse. It also shows the process for sending the actual receipt information from the warehouse back to Infor ERP LX.

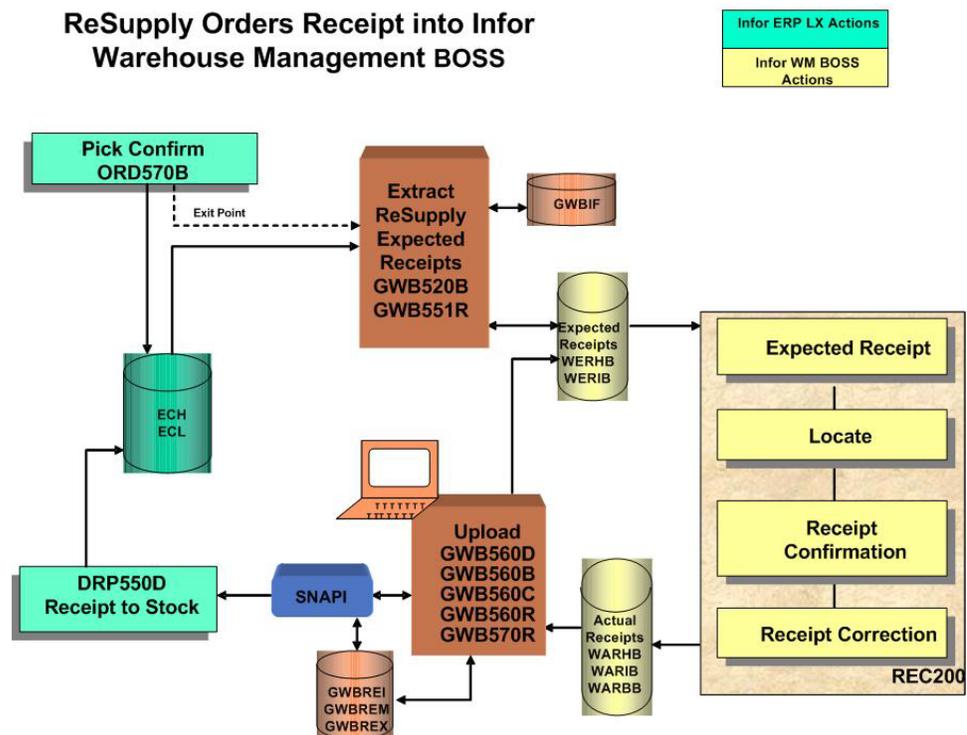


Figure 3-2: Resupply Orders Receipt into Infor SCM Warehouse Management BOSS

## Send Expected Receipts to Infor SCM Warehouse Management BOSS

The process for sending an unexpected receipt for a resupply order for receipt into an Infor SCM Warehouse Management BOSS-controlled warehouse is initiated from an exit point in Pick Confirm (ORD570B). The exit point calls the Extract Resupply Expected Receipts (GWB520B) program, which uses the passed parameters to read the appropriate Infor ERP LX records and create expected receipt records in the Infor SCM Warehouse Management BOSS files (WERHB, WERIB).

## Send Actual Receipts to Infor ERP LX

When the expected receipt information is in the Infor SCM Warehouse Management BOSS database, you can receive material against it. All receipt processing is done within Infor SCM Warehouse Management BOSS. You cannot use Resupply Order Receipt (DRP550D) to receive material against a resupply order for a Type=4 warehouse. All receipts for a Type=4 warehouse must be made in Infor SCM Warehouse Management BOSS.

To send the actual receipt information to Infor ERP LX, use Upload Actual Receipts to Infor ERP LX (GWB560D). The upload program extracts the actual receipt data, including all records release by error processing, from the Infor SCM Warehouse Management BOSS database and sends it to the SNAPI that drives Resupply Order Receipt (DRP550D).

If the SNAPI cannot process the actual receipt, the WMA program writes an error record to the GWBERR file. See Chapter 6, "Error Processing," for more information.

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## Notes

This chapter discusses using the Warehouse Management Adapter to issue shop orders from an Infor SCM Warehouse Management BOSS-controlled warehouse and to process shop order production receipts into Infor SCM Warehouse Management BOSS.

The chapter consists of the following topics:

<b>Topic</b>	<b>Page</b>
Overview	4-2
Shop Order Issues	4-3
Shop Order Production Receipts	4-9

## Overview

The Warehouse Management Adapter allows you to issue shop orders from an Infor SCM Warehouse Management BOSS-controlled warehouse and to process shop order production receipts into Infor SCM Warehouse Management BOSS.

To issue a shop order from Infor SCM Warehouse Management BOSS, use standard Infor ERP LX processing to create and allocate the shop order, use the WMA to select the items to pick for the shop order, and use Infor SCM Warehouse Management BOSS for the pick, pack, and ship operations. A WMA program uploads the actual shipment information to Infor ERP LX and applies it to the shop order.

To receive shop floor production directly into Infor SCM Warehouse Management BOSS, use standard Infor SCM Warehouse Management BOSS processing to receive production receipts and then use the WMA programs to send the actual receipt data to Infor ERP LX and report production against the shop order.

Review the Shop Floor Considerations and setup requirements in Chapter 1, “Overview,” before you use Infor SCM Warehouse Management BOSS for processing shop orders.

---

## Shop Order Issues

Create shop orders in Infor ERP LX, allocating the order lines to the Infor SCM Warehouse Management BOSS-controlled warehouse, and send the order information to Infor SCM Warehouse Management BOSS. Do not de-allocate the components while Infor SCM Warehouse Management BOSS has control of the issue.

If an order line (sequence) has split lot allocations, the WMA program creates a separate order and order line for each lot to be issued. When you upload the shipment information to Infor ERP LX, the WMA adjusts the lot allocations and reports the total quantity issued at the component level.

## Shop Order Issue Process Flow

The following diagram outlines the process flow for downloading shop order component requirements from Infor ERP LX to Infor SCM Warehouse Management SCM Warehouse Management BOSS-controlled warehouse for assignment to a shop order (shipment). It also shows the process for sending the actual shipment information from the warehouse back to Infor ERP LX and applying the inventory to the shop order.

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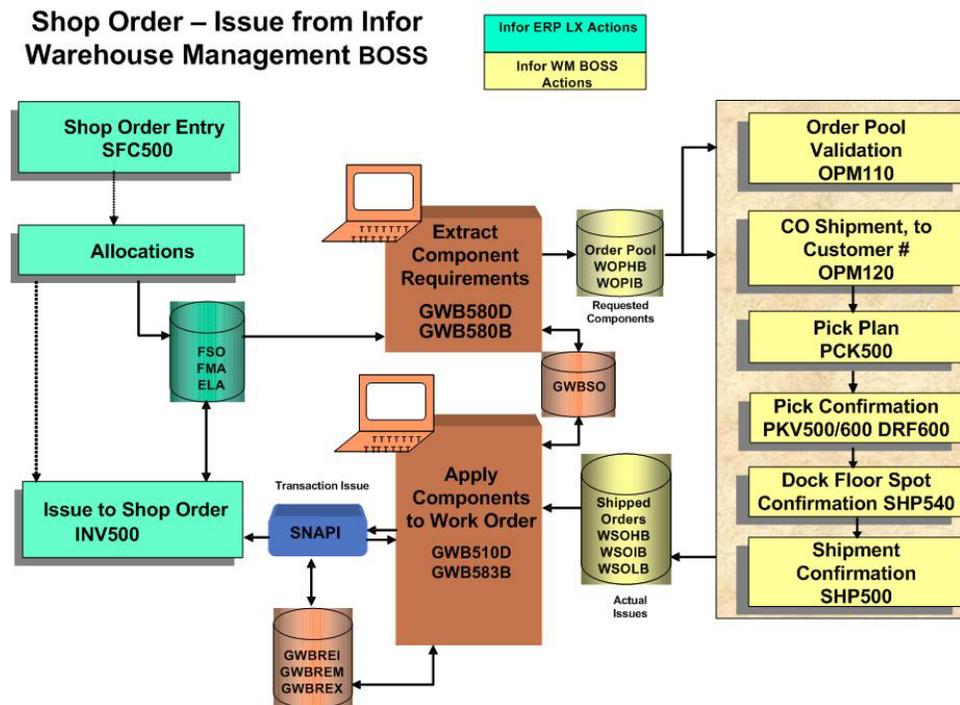


Figure 4-1: Shop Order—Issue from Infor SCM Warehouse Management BOSS

## Send Shop Orders to Infor SCM Warehouse Management BOSS

The process of sending a shop order issue request to Infor SCM Warehouse Management BOSS includes shop order entry and allocation programs in Infor ERP LX and WMA shop order issue request programs that map the data between the two systems. The process includes the following:

- Create a shop order for an item with components available in a Type=4 warehouse and allocate the components to that warehouse. A shop order must be allocated to be issued from Infor SCM Warehouse Management BOSS.
- In Infor ERP LX, access the Shop Order Issue Release to Warehouse Management BOSS (GWB580D) program to select the components to request from Infor SCM Warehouse Management BOSS and to adjust the quantity requested. The requested quantity defaults to the quantity allocated in Infor ERP LX less any quantities currently released but not shipped in Infor SCM Warehouse Management BOSS. See Shop Order Issue Release to Warehouse Management BOSS (GWB580D) for a description of the screens used in this process.

- After you have selected the components and optionally adjusted the requested quantities, accept your entries to send the order to the order pool management files in Infor SCM Warehouse Management BOSS.

If the WMA encounters errors, or if Infor SCM Warehouse Management BOSS rejects an order, the order cannot be processed. See Chapter 6, “Error Processing,” for more information.

## Send Actual Shipments to Infor ERP LX

Infor SCM Warehouse Management BOSS performs the picking and packing operations and the shipping transaction for shop order issue requests. Select Upload Shipped Orders to Infor ERP LX (GWB510D) to send the actual issue (shipment) data to update the Infor ERP LX inventory.

See Upload Shipped Orders to Infor ERP LX (GWB510D) in Chapter 2, “Shipping Orders,” for a description of the screens in this program.

## Download Shop Order Issue Requests (GWB580D)

Use Download Shop Order Issue Requests (GWB580D) to adjust the quantity to issue for the components on the shop order and to send the issue request to an Infor SCM Warehouse Management BOSS-controlled warehouse.

Complete the following steps to send a shop order issue request to Infor SCM Warehouse Management BOSS:

- 1 Access Download Shop Order Issue Requests (GWB580D). The system displays the Shop Order Issue Request screen (GWB580D-01).
-

```
GWB580D-01      ** V8.3.2 Warranty Environment **      QPADEV0023  6/29/07
SSAUSCH0              Shop Order Issue Request      ENGD        09:51:30

Type desired selection criteria, press Enter.

Infor ERP LX Warehouse      ___ +      (required)
Shop Order Number          _____ + (required)
Requested Issue Date       6/29/07 (required)

F1=Help F3=Exit F4=Prompt
```

Figure 4-2: GWB580D-01, Shop Order Issue Request

- 2 Enter the following information. All fields are required.

*Infor ERP LX Warehouse (4,A)*

Enter or select the Type=4 warehouse for the issue request. **F4** to prompt.

*Shop Order Number (8,N)*

Enter or select a valid shop order number. **F4** to prompt.

*Requested Issue Date (8,A)*

Enter the date you want the shop order issued. The default is today's date.

- 3 Press **Enter**. The system displays the Shop Order Issue Request screen (GWB580D-02).



*Line*

The shop order line number.

*Seq*

The shop order sequence number.

*Lot*

The lot ID of the lot allocated to this line.

*Date Required*

The date the component must be available. The default is today's date.

*Available*

The quantity allocated for this line/lot for this warehouse less any quantities released but not shipped in this warehouse.

*Release (12,N)*

Enter the quantity to release. You cannot enter a value greater than the quantity available. The quantity you enter in the UOM unit of measure is converted to the eaches UOM and rounded to the nearest whole number.

- 5 Press **F6=Accept** to sent the issue request to Infor SCM Warehouse Management BOSS.
-

## Shop Order Production Receipts

You can receive shop order production (inventory) directly into an Infor SCM Warehouse Management BOSS-controlled warehouse using standard Infor SCM Warehouse Management BOSS receiving operations.

When you set up the receiving warehouse, give it and the shop order production warehouse the same Facility Code in Infor ERP LX. An Infor ERP LX shop order cannot be received into a warehouse that is not part of the same facility as the shop order. To receive into an Infor SCM Warehouse Management BOSS-controlled warehouse tied to a different facility, you must first receive production to the same facility, and then create a Resupply Order to transfer the inventory into the Infor SCM Warehouse Management BOSS warehouse.

Updates to Infor ERP LX inventory files occur from the WMA upload to Infor ERP LX. Therefore, when you report production on the Shop Order, choose a transaction type in Infor ERP LX that does not perform a receipt to inventory. Select a transaction that posts production without receipt. We recommend that you use Shop Order Labor Posting (SFC600) for production reporting because it does not affect inventory. If you use a transaction that affects receipts, the inventory quantity is added to both the production warehouse and the Infor SCM Warehouse Management BOSS storage warehouse, causing a double reporting of the inventory.

## Production Receipts Process Flow

The following diagram outlines the process flow for receiving production directly from Infor ERP LX into Infor SCM Warehouse Management BOSS. It also shows the process for sending the actual receipt information from the warehouse back to Infor ERP LX.

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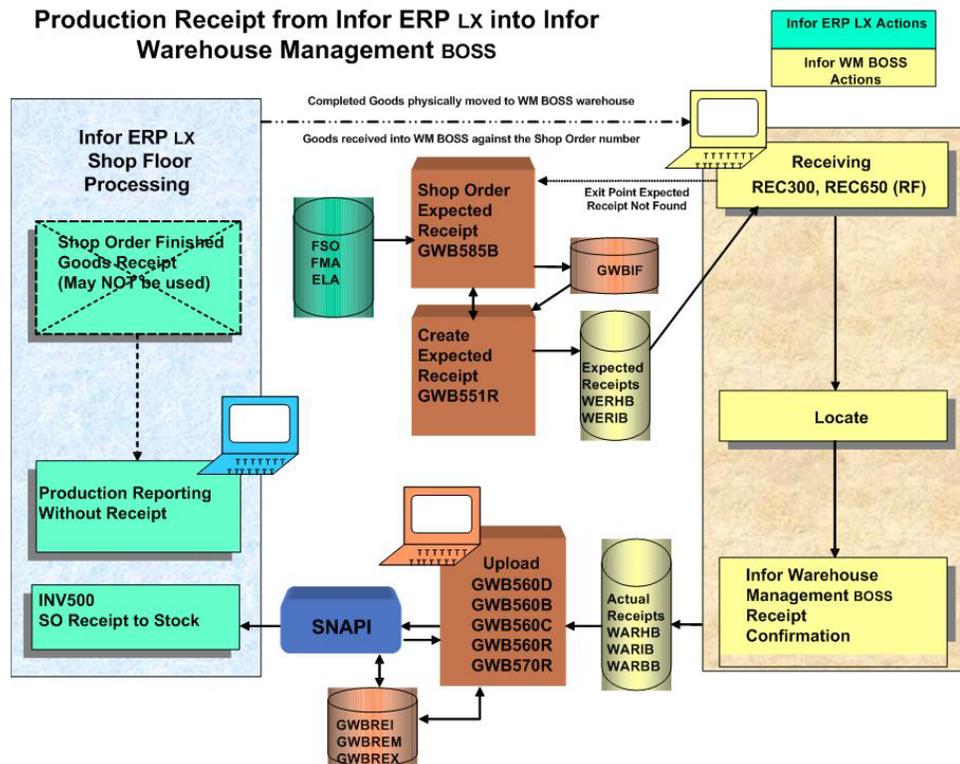


Figure 4-4: Production Receipt from Infor ERP LX into Infor SCM Warehouse Management BOSS

## Receive Expected Receipts in Infor SCM Warehouse Management BOSS

Infor SCM Warehouse Management BOSS must have an expected receipt to receive the production against a shop order. When you attempt to receive the production, the WMA creates, in Infor SCM Warehouse Management BOSS, an expected receipt which is based on the shop order. The quantity used to create the expected receipt is the total production quantity for the finished good, not the quantity about to be received.

If the WMA successfully creates the expected receipt, it returns the information to the Infor SCM Warehouse Management BOSS receiving program and populates the required screen fields and settings, allowing you to continue on with the receipt of the actual quantity of finished goods. The receiving tolerance for the Infor SCM Warehouse Management BOSS transaction code should be sufficient to allow for normal production overruns.

If you enter the wrong shop order number (but a valid shop order in Infor ERP LX) the expected receipt for the shop order entered is created in the Infor SCM Warehouse Management BOSS files. When you attempt to receive against this shop order you will receive messages that the item is incorrect or the quantity is wrong. The messages should alert you to the fact that this is the wrong shop order number. The shop order expected receipt entered in error remains in the Infor SCM Warehouse Management BOSS files without causing any processing or balancing problems between Infor ERP LX and Infor SCM Warehouse Management BOSS.

## Send Actual Receipts to Infor ERP LX

When the receipt confirmation is complete in Infor SCM Warehouse Management BOSS, use the Upload Actual Receipts to Infor ERP LX (GWB560D) to send the actual receipt information to Infor ERP LX for financial inventory adjustment and shop order accounting. The WMA uses the transaction code for shop order receipts, as entered in Maintain WMA Operation Parameters (GWB820D), to update Infor ERP LX inventory in Inventory Transactions (INV500).

---

## Notes

This chapter discusses the process of reconciling the inventory in Infor ERP LX with the inventory in an Infor SCM Warehouse Management BOSS-controlled warehouse.

The chapter consists of the following topics:

<b>Topic</b>	<b>Page</b>
Overview	5-2
Send Inventory Transactions to Infor ERP LX	5-3
Inventory Reconciliation	5-5

## Overview

Infor SCM Warehouse Management BOSS manages the inventory in an Infor SCM Warehouse Management BOSS-controlled warehouse. When you set up your Type=4 warehouse, you must receive the inventory into it using the Infor SCM Warehouse Management BOSS receiving process.

If you have to make inventory adjustments for any reason, such as cycle counts and physical inventory, perform the transaction within Infor SCM Warehouse Management BOSS and pass the result back to Infor ERP LX to adjust the Infor ERP LX representation of this inventory for financial and planning purposes.

Although all the adjustments made in Infor SCM Warehouse Management BOSS are passed to Infor ERP LX, you will want to periodically reconcile the two inventories. Infor SCM Warehouse Management BOSS includes an inventory reconciliation process.

You cannot routinely maintain the inventory of a Type=4 warehouse within Infor ERP LX. You can, however, adjust the inventory within Infor ERP LX in special circumstances. Create a new, unique transaction code in Transaction Effect Maintenance (INV150D1) and enter this same code in Maintain Operation Parameters (GWB820D-01). When you enter this transaction code in Inventory Transactions (INV500D1), you can make inventory adjustments in Infor ERP LX that do not affect Infor SCM Warehouse Management BOSS. Use of this special transaction should be limited to a very small group of individuals who are able to evaluate its use and make appropriate adjustments.

**Warning:** Inventory transaction codes in Infor SCM Warehouse Management BOSS are up to three characters in length; in Infor ERP LX they are two. If you use a three-character code in Infor SCM Warehouse Management BOSS, the WMA considers the transaction for posting in Infor SCM Warehouse Management BOSS only, and does not pass the transaction to Infor ERP LX. If you define and use a *two-character code* in Infor SCM Warehouse Management BOSS that matches the Infor ERP LX inventory transaction codes, the WMA passes the associated transactions to Infor ERP LX.

This chapter discusses the process for sending adjustments to Infor ERP LX and for inventory reconciliation.

---

## Send Inventory Transactions to Infor ERP LX

Performing routine warehouse operations requires you to make adjustments to the warehouse inventory. For example, if you make a cycle count adjustment in Infor SCM Warehouse Management BOSS, the WMA passes the appropriate transactions to Inventory Transactions (INV500).

If you transfer inventory from one Infor SCM Warehouse Management BOSS-controlled warehouse to another Infor SCM Warehouse Management BOSS warehouse using ADM500, inventory adjustments are made but no adjustments to allocations are made. Rather than use the Infor SCM Warehouse Management BOSS transfer program, use a resupply order to move the inventory and its allocations.

If you transfer inventory from one location to another location within the same Infor SCM Warehouse Management BOSS-controlled warehouse, no inventory adjustment is made.

### Inventory Transaction Process Flow

The following diagram outlines the process flow for sending inventory transactions from an Infor SCM Warehouse Management BOSS-controlled warehouse to Infor ERP LX.

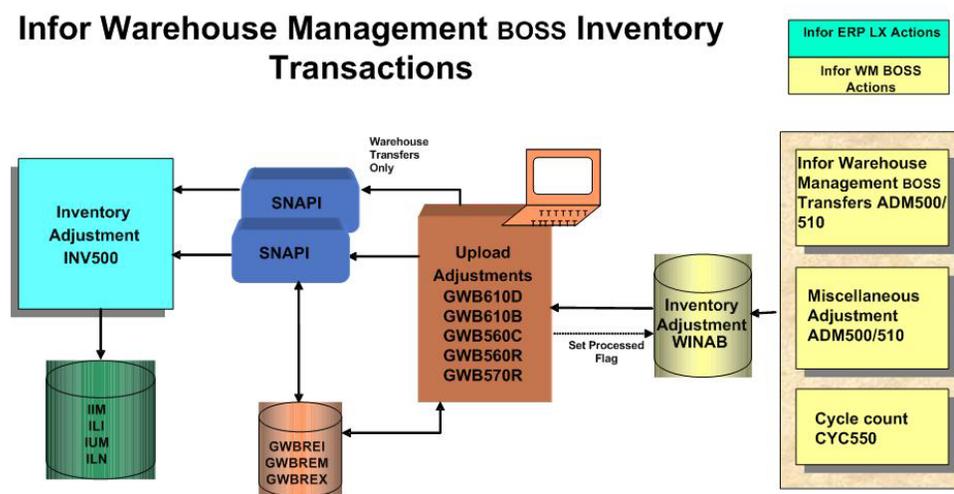


Figure 5-1: Infor SCM Warehouse Management BOSS Inventory Transactions

Infor SCM Warehouse Management BOSS writes the transaction information to the WINAB file. Use Upload Inventory Adjustments to Infor ERP LX (GWB610D) to select the warehouse for bringing the adjustment back into Infor ERP LX. The WMA passes the information to Infor ERP LX where the Inventory Adjustment (INV500) program makes adjustments to the inventory.

## Upload Inventory Adjustments to Infor ERP LX (GWB610D)

Complete the following steps to upload inventory adjustments from Infor SCM Warehouse Management BOSS to Infor ERP LX.

- 1 Select Upload Inventory Adjustments to Infor ERP LX (GWB610D). The system displays the Upload Inventory Adjustments (GWB610D-01) screen.

- 2 Make entries in the following fields:

*Select Warehouse For Upload (4,A)*

Enter the warehouse ID.

*Run Time Parameter (1,N)*

Enter one of the following:

- |          |                           |
|----------|---------------------------|
| <b>0</b> | Run the job in batch      |
| <b>1</b> | Run the job interactively |

- 3 Press **F6=Accept** to submit the job to upload inventory adjustments to Infor ERP LX.
-

# Inventory Reconciliation

The Infor SCM Warehouse Management BOSS inventory, used for picking, shipping, and receiving, and the Infor ERP LX inventory, used for financials, allocations, and planning, are interfaced rather than integrated. Use the Inventory Reconciliation (IRS) feature within Infor SCM Warehouse Management BOSS to reconcile the inventories.

The following diagram outlines the process flow for downloading the Infor ERP LX inventory into Infor SCM Warehouse Management BOSS.

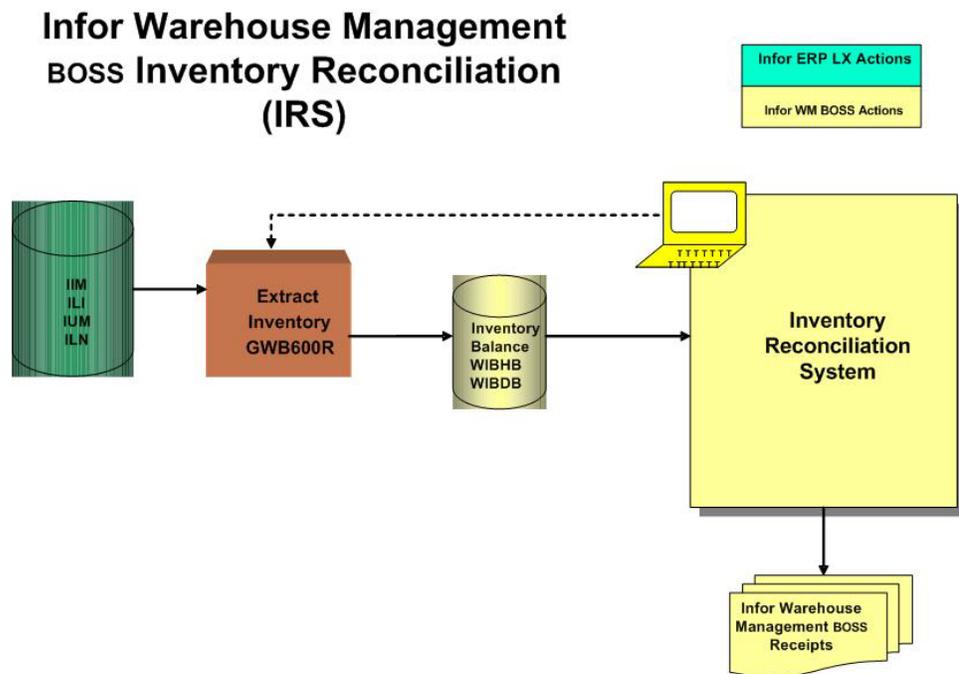


Figure 5-2: Infor SCM Warehouse Management BOSS Inventory Reconciliation (IRS)

On an Infor SCM Warehouse Management BOSS menu, select the Create Inventory Comparison File (IRS101) to initiate the GWB792 download process. This process extracts the Infor ERP LX inventory level by item, warehouse, and lot. It then enters the information in Infor SCM Warehouse Management BOSS files for comparison with the corresponding Infor SCM Warehouse Management BOSS inventory information.

Transact any actions required, as identified by the IRS process, in Infor SCM Warehouse Management BOSS and pass the adjustments back to Infor ERP LX.

**Important!** If you use an item number or lot number from Infor ERP LX when you run Inventory Reconciliation (IRS130) in Infor SCM Warehouse Management BOSS, the process truncates the item or lot number to 15 characters. If the first 15 characters of the item or lot number in Infor ERP LX match an item or lot number in Infor SCM Warehouse Management BOSS, the IRS process totals the numbers. Therefore, if any item or lot in the reconciliation process has more than 15 characters, the system indicates the status as /// in the *Inv Status* and *Lot Status* fields respectively.

See the *Warehouse BOSS User Guide* for more information about the reconciliation process performed within Infor SCM Warehouse Management BOSS.

---

This chapter discusses the process of handling errors that occur when you download orders or receipts to Infor SCM Warehouse Management BOSS and when you upload the information back into Infor ERP LX.

The chapter consists of the following topics:

<b>Topic</b>	<b>Page</b>
Overview	6-2
Error Processing Overview	6-3
Download Error Processing	6-5
Upload Error Processing	6-11
Reprocessing Rejected Records	6-19

---

## Overview

Errors can occur when you download orders, expected receipts, or shop floor issue requests from Infor ERP LX to Infor SCM Warehouse Management BOSS and when you upload the actual shipments, receipts, or inventory adjustments from Infor SCM Warehouse Management BOSS back into Infor ERP LX. The WMA includes programs for processing these errors.

This chapter discusses the following topics:

- Error Processing Overview
  - Download Error Processing
  - Upload Error Processing
  - Reprocessing Rejected Records
-

## Error Processing Overview

The WMA enables you to send orders and expected receipts from Infor ERP LX to Infor SCM Warehouse Management BOSS. When the orders are shipped or the receipts are entered in Infor SCM Warehouse Management BOSS, you can send the information back to Infor ERP LX. Unexpected problems can occur during the download to Infor SCM Warehouse Management BOSS, during warehouse processing, and during the upload to Infor ERP LX.

When you set up your Infor SCM Warehouse Management BOSS-controlled warehouse you must create records for products that will pass through the warehouse and for other information that the warehouse needs to process orders and receipts. Problems can occur if there are differences in the information stored in Infor ERP LX and in Infor SCM Warehouse Management BOSS.

The following are examples of the types of errors that can arise when orders, shipments, or receipts are transferred between Infor ERP LX and Infor SCM Warehouse Management BOSS.

- The order header submitted to Infor SCM Warehouse Management BOSS contains a carrier code that is not valid in Infor SCM Warehouse Management BOSS. To resolve the error, update Infor SCM Warehouse Management BOSS to include the carrier code or change the carrier code on the order.
  - A purchase order contains a product that is not defined in Infor SCM Warehouse Management BOSS. To correct the error, you must add the item to Infor SCM Warehouse Management BOSS using Item Maintenance (ADM100).
  - Infor ERP LX inventory for Item A shows a quantity of 24 and the entire amount is allocated to an order sent to Infor SCM Warehouse Management BOSS. During the order pool validation process, Infor SCM Warehouse Management BOSS finds that the 24 units, the only available inventory, are eaches but the Picking Rule for Item A, for this order type, requires case packaging. Infor SCM Warehouse Management BOSS rejects the order line.
  - A customer order contains an order quantity for 10 cases. An Infor ERP LX unit of measure conversion from cases to eaches does not exist. Infor SCM Warehouse Management BOSS requires that all quantities be “eaches” and so rejects the order line.
-

- You attempt to enter an actual receipt in Infor SCM Warehouse Management BOSS against a shop order that does not exist in Infor ERP LX. Infor SCM Warehouse Management BOSS cannot process the receipt.

See the section "Infor SCM Warehouse Management BOSS Order/Line Reject Codes" for a summary of reasons for rejecting orders and lines within Infor SCM Warehouse Management BOSS. Error codes and messages for errors that are encountered by an adapter program or an Infor ERP LX SNAPI appear on the error report and can be viewed online.

When the WMA detects an error in an order/order line or Infor SCM Warehouse Management BOSS rejects an order/line, the order cannot be processed. The WMA includes programs that prevent the order from being deleted during purge jobs. If an adapter program detects a problem, it writes an error record to the error file (GWBERR). Infor SCM Warehouse Management BOSS has its own error file (WRJOB) for capturing errors that occur within Infor SCM Warehouse Management BOSS; an adapter program moves error records in the WRJOB file to the GWBERR file. Review the flow charts in the following sections to see how the adapter processes errors for each transaction type.

You can use the View/Release WMA Transactions program (GWB590D1) to manage the orders that could not be processed. Use this option to perform the following tasks:

- Print an error report
- Display error records online
- Select orders for reprocessing

See "Reprocessing Rejected Orders" in this chapter for a discussion of these tasks.

---

# Download Error Processing

The WMA includes error-processing programs for the following transaction types:

- Customer/Resupply Order Shipments
- Receiving Resupply Orders/Purchase Orders
- Shop Floor Issues
- Shop Order Receipts

## Customer/Resupply Order Shipments

Infor SCM Warehouse Management BOSS processes customer and resupply order shipments in the same way. The following diagram shows the process for handling orders that are rejected either in the Order Shipment Processing (GWB500B) or by warehouse processing.

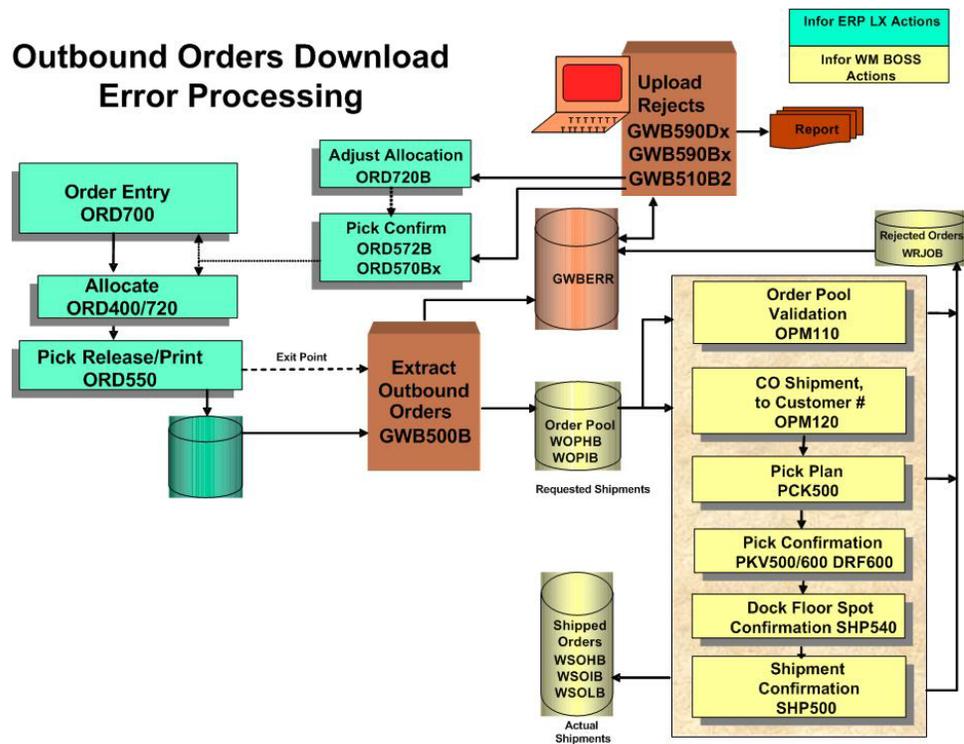


Figure 6-1: Outbound Orders Download Error Processing

See Chapter 2, "Shipping Orders," for a description of the order process for customer/resupply orders sent to Infor SCM Warehouse Management BOSS.

Error processing includes the following steps:

- 1 When the Extract Outbound Orders (GWB500B) program finds errors, it writes the error records to the GWBERR file.
- 2 Once in Infor SCM Warehouse Management BOSS, errors or rejections can occur during the following processes:
  - Order pool validation
  - Picking
  - Shipment confirmation

If Infor SCM Warehouse Management BOSS encounters errors, it writes error records to the WRJOB file. When you call GWB590D1 from the menu, the program moves error records from WRJOB to GWBERR.

- 3 To manage the error records, select View/Release WMA Transactions (GWB590D1). Use the screens in GWB590D1 to print the error report, to review errors, and to select orders/lines for upload to Infor ERP LX. See "Reprocessing Rejected Orders" for a description of the screens.
- 4 After reviewing the error, make the appropriate adjustments in Infor ERP LX or in Infor SCM Warehouse Management BOSS.
- 5 After you select the order/line for reprocessing, you can maintain it in Infor ERP LX to correct the error. You cannot ordinarily maintain an order for a Warehouse Type=4 warehouse but, after you select the order for reprocessing, the WMA zero ships the order/line, returning the line status to 1xxxx.

## Receiving Resupply Orders/Purchase Orders

You can receive both resupply orders and purchase orders in an Infor SCM Warehouse Management BOSS warehouse. Before you can initiate the actual receipt process, Infor SCM Warehouse Management BOSS requires that an expected receipt exist for the order. The following diagram outlines the process for handling problems that occur when Infor ERP LX sends an expected receipt for the resupply order to Infor SCM Warehouse Management BOSS.

---

## WMA Expected Purchase Order Receipts and ReSupply Order Receipts Error Handling

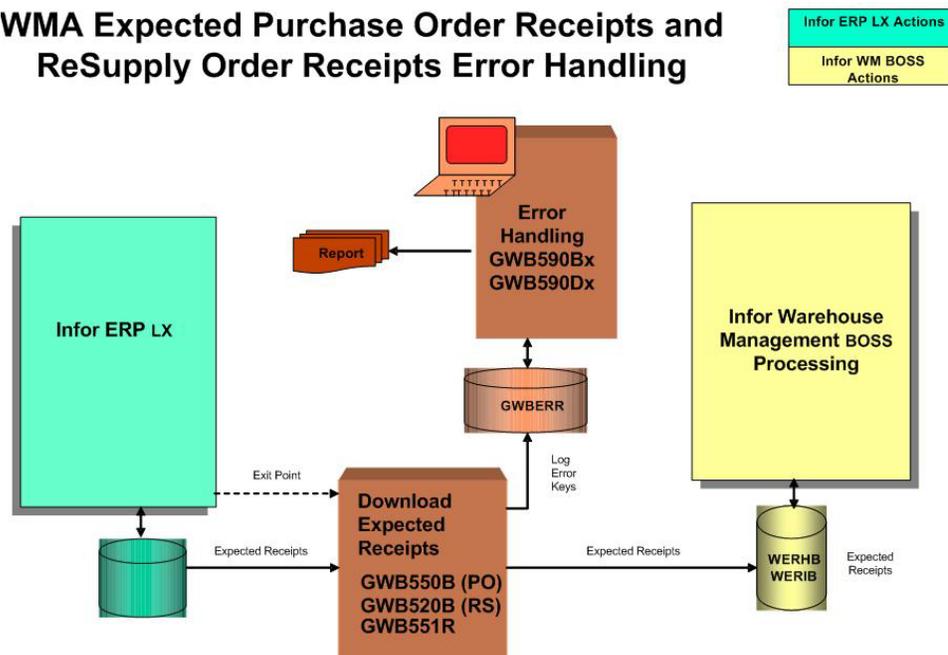


Figure 6-2: WMA Expected Purchase Order Receipts and Resupply Order Receipts Error Handling

See Chapter 3, “Expected and Actual Receipts” for a description of the order process for expected receipts sent to Infor SCM Warehouse Management BOSS.

The error correction process includes the following steps:

- 1 When the Download Expected Receipts (GWB520 for resupply orders or GWB550 for purchase orders) program finds that an expected receipt is in error, the program writes an error record to the GWBERR file.
- 2 Use View/Release WMA Transactions (GWB590D1) to review errors online or to print an error report.
- 3 After reviewing the error, make the appropriate adjustments in Infor ERP LX and/or Infor SCM Warehouse Management BOSS.
- 4 When the error condition is corrected, use the View/Release WMA Transactions (GWB590D1) program to reprocess the record. The GWB590 program retriggers the download of the expected receipt from the Infor ERP LX files.

## Shop Order Issues

The following diagram outlines the process for handling problems that occur when you send shop order issues from Infor ERP LX to Infor SCM Warehouse Management BOSS.

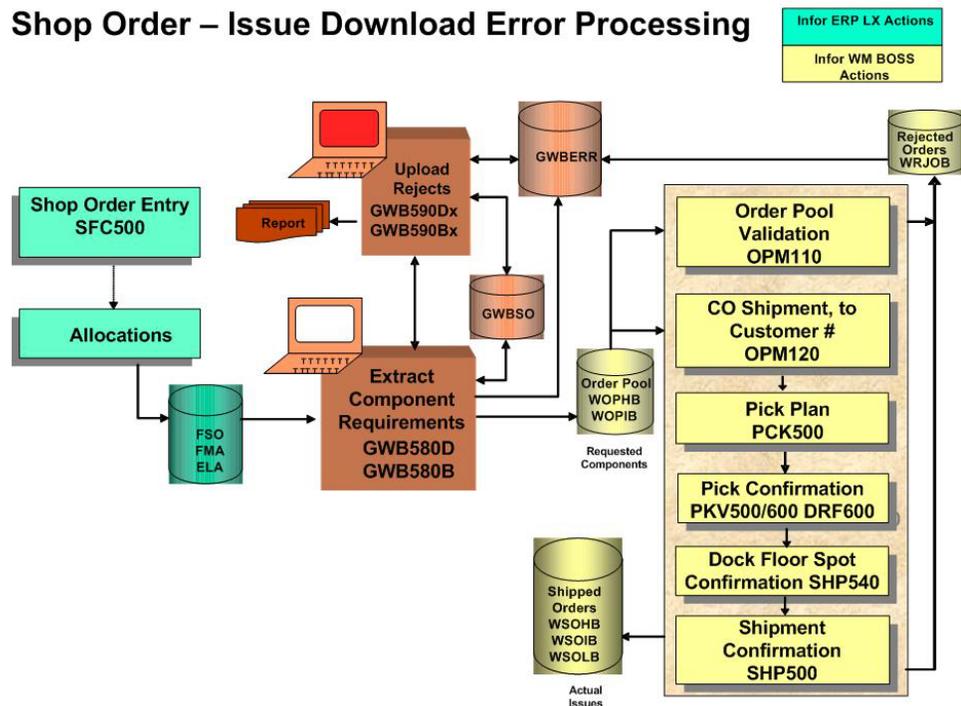


Figure 6-3: Shop Order — Issue Download Error Processing

See Chapter 4, “Production Orders,” for a description of the process for shop floor issues from Infor SCM Warehouse Management BOSS.

Error processing includes the following steps:

- 1 When the Extract Component Requirements (GWB580) program finds problems, it writes the error records to the GWBERR file.
- 2 After shop order issues are in Infor SCM Warehouse Management BOSS, problems can occur during order pool validation or shipment confirmation. If Infor SCM Warehouse Management BOSS encounters problems, it writes error records to the WRJOB file.
- 3 When you call View/Release WMA Transactions (GWB590D1) from the menu, the program moves error records from WRJOB to GWBERR.

- 4 Use View/Release WMA Transactions (GWB590D1) to review errors online or to print an error report.
- 5 Correct the error condition and select the record for reprocessing. When you select an error record for a shop order issue request, the WMA deletes the record and the associated control number.
- 6 Use Download Shop Order Issues (GWB580D) to resubmit the order.

## Shop Order Receipts

Infor SCM Warehouse Management BOSS can receive finished goods directly from a shop order. The following diagram outlines the process for handling problems that occur when you create expected shop order receipts from Infor ERP LX in Infor SCM Warehouse Management BOSS. An expected receipt must exist in Infor SCM Warehouse Management BOSS before you can process an actual receipt.

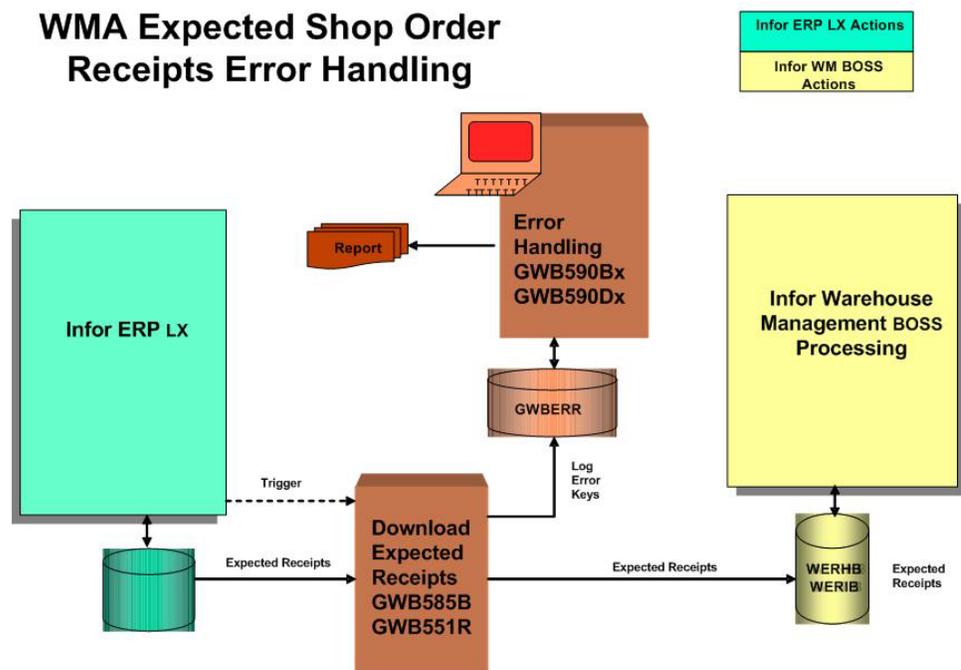


Figure 6-4: WMA Expected Shop Order Receipts Error Handling

See Chapter 4, “Production Orders,” for a description of the process for receiving shop orders directly into Infor SCM Warehouse Management BOSS.

Error processing includes the following steps:

- 1 When the Download Expected Receipts (GWB586) program cannot create an expected receipt in Infor SCM Warehouse Management BOSS, the program writes an error record to the GWBERR file and returns the message to the Infor SCM Warehouse Management BOSS receiving program.
  - 2 Use View/Release WMA Transactions (GWB590D1) to review errors online or to print an error report.
  - 3 After reviewing the error, make the appropriate adjustments in Infor ERP LX and/or Infor SCM Warehouse Management BOSS.
  - 4 When the error condition is corrected, resubmit the receipt, using View/Release WMA Transactions (GWB590D1).
-

## Upload Error Processing

The WMA follows a similar procedure for handling problems that occur in uploads from Infor SCM Warehouse Management BOSS to Infor ERP LX for actual shipments, actual receipts, shop floor issues, and inventory transfers, although the programs that it uses depend on the type of error record.

The process includes the following steps. Refer to the process flows for each type of order for specific information about error processing for that order type:

- 1 When you select data to upload to Infor ERP LX, the upload program identifies those records with problems and sets the processing flag on the WMA files to prevent you from trying to resubmit them before you correct the error condition. The processing flag also prevents Infor SCM Warehouse Management BOSS from purging the records during routine purge jobs. The processing flag is set programmatically and is not visible to you.
- 2 The upload program writes error records to the error file (GWBERR).
- 3 To manage the error records, select View/Release WMA Transactions (GWB590D1). Use the screens in GWB590D1 to print the error report, to review errors, and to select orders to reprocess back to Infor ERP LX. See "Reprocessing Rejected Orders" for a description of the screens.
- 4 After you correct the problem condition, select the data records for reprocessing in View/Release WMA Transactions (GWB590D1). The WMA resets the processing flag so that you can use the upload programs to resubmit it to Infor ERP LX.

## Customer/Resupply Order Actual Shipments

The following diagram outlines the process for handling problems that occur when you upload actual shipments of customer or resupply orders to Infor ERP LX.

---

## WMA Actual Shipments Error Handling

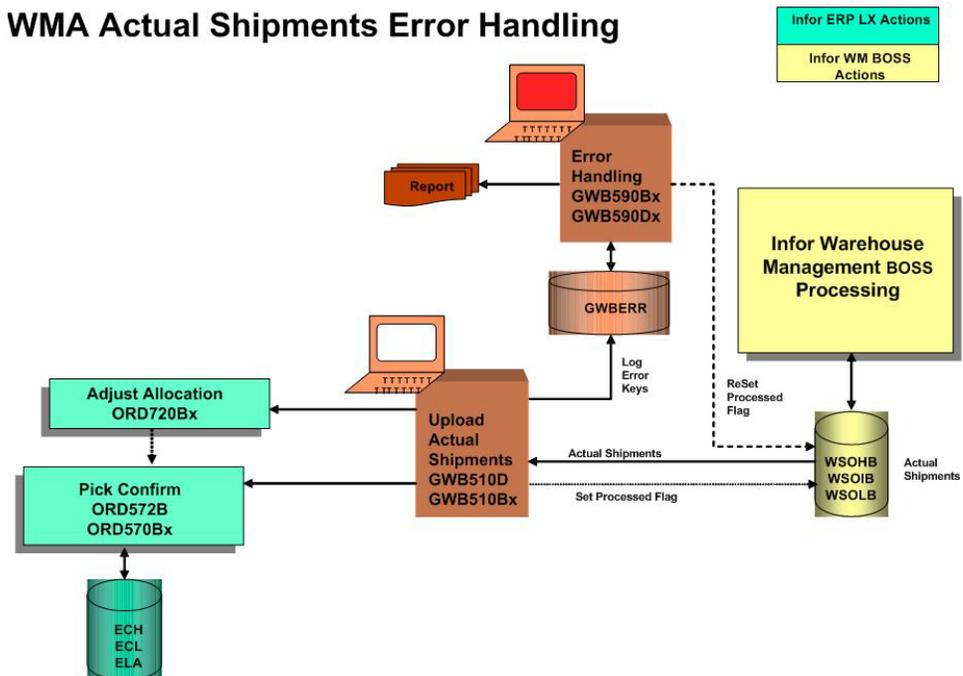


Figure 6-5: WMA Actual Shipments Error Handling

- 1 When Infor SCM Warehouse Management BOSS processing is complete, use Upload Actual Shipments to Infor ERP LX (GWB510D) to send the shipment information to Infor ERP LX.
- 2 If the WMA encounters a problem, it writes an error record to the GWBERR file.
- 3 Use View/Release WMA Transactions (GWB590D1) to review errors online or to print an error report.
- 4 After reviewing the error, make the appropriate adjustments in Infor ERP LX and/or Infor SCM Warehouse Management BOSS. Next, use View/Release WMA Transactions (GWB590D1) to release the record.
- 5 When you access Upload Actual Shipments to Infor ERP LX (GWB510D1) to send actual shipment information to Infor ERP LX, the WMA sends all the shipment records, including those you released from the GWBERR file.

## Purchase Order Actual Receipts

When Infor SCM Warehouse Management BOSS receives material on a purchase order, discrepancies can exist between the expected receipt in

Infor ERP LX and the actual receipt. The following diagram outlines the process for handling errors that occur when Infor SCM Warehouse Management BOSS sends actual receipts to Infor ERP LX.

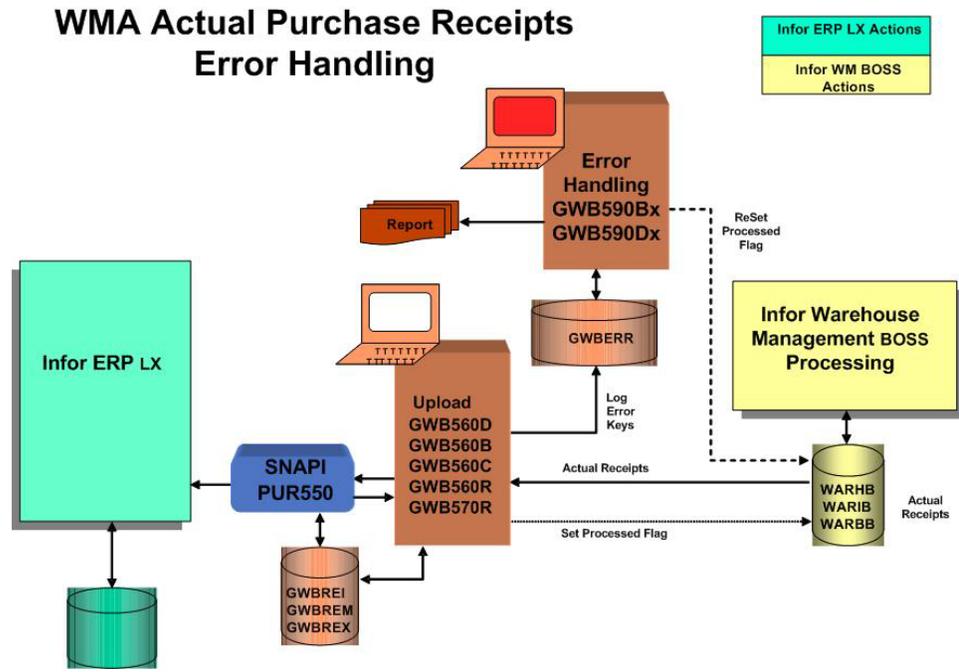


Figure 6-6: WMA Actual Purchase Receipts Error Handling

- 1 When Infor SCM Warehouse Management BOSS processing is complete, use Upload Actual Receipts to Infor ERP LX (GWB560D) to select the receipts to send from Infor SCM Warehouse Management BOSS to Infor ERP LX.
- 2 If the PUR550 SNAPI encounters problems as it attempts to update Infor ERP LX with purchase order receipts, it writes an error record to the GWBERR file.
- 3 Use View/Release WMA Transactions (GWB590D1) to review errors online or to print an error report.
- 4 After reviewing the error, make the appropriate adjustments in Infor ERP LX and/or Infor SCM Warehouse Management BOSS. Use View/Release WMA Transactions (GWB590D1) to release the record.
- 5 When you access Upload Actual Receipts to Infor ERP LX (GWB560D) to send receipt information from Infor SCM Warehouse Management BOSS to Infor ERP LX, the WMA sends all the receipt records, including those you released from the GWBERR file.

## Resupply Order Actual Receipts

The following diagram outlines the process for handling errors that occur when Infor SCM Warehouse Management BOSS sends actual receipts for resupply orders to Infor ERP LX.

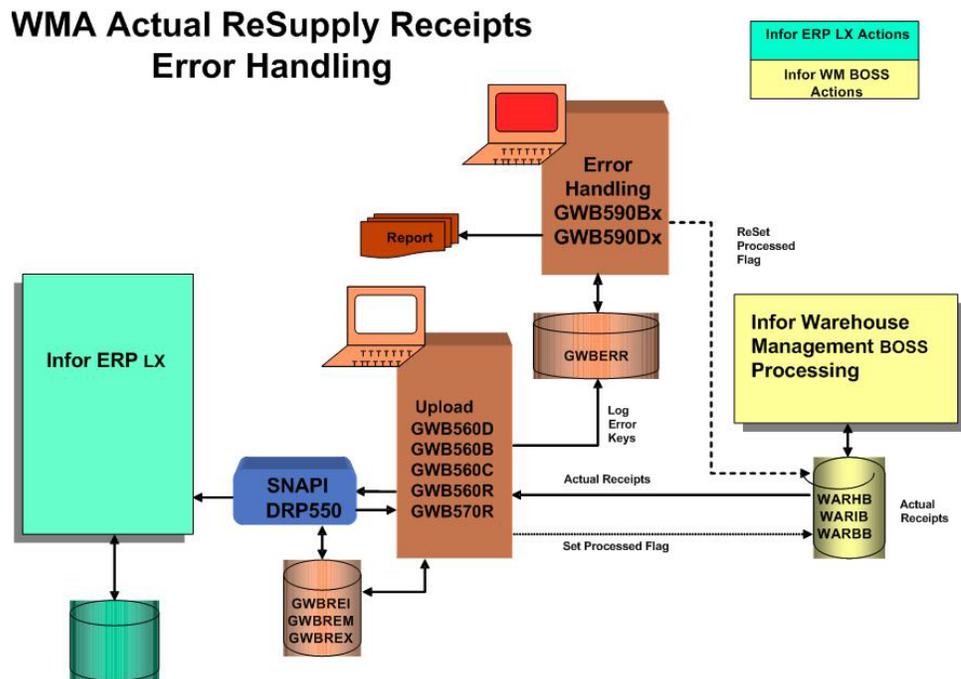


Figure 6-7: WMA Actual Resupply Receipts Error Handling

- 1 When Infor SCM Warehouse Management BOSS processing is complete, use Upload Actual Receipts to Infor ERP LX (GWB560D) to select the receipts to send from Infor SCM Warehouse Management BOSS to Infor ERP LX.
- 2 If the DRP550 SNAPI encounters errors as it attempts to update Infor ERP LX with resupply order receipts, it writes an error record to the GWBERR file.
- 3 Use View/Release WMA Transactions (GWB590D1) to review errors online or to print an error report.
- 4 After reviewing the error, make the appropriate adjustments in Infor ERP LX and/or Infor SCM Warehouse Management BOSS. Use View/Release WMA Transactions (GWB590D1) to release the record.
- 5 When you access Upload Actual Receipts to Infor ERP LX (GWB560D) to send receipt information from Infor SCM Warehouse Management BOSS to Infor ERP LX, the adapter sends all the receipt records, including those you released from the GWBERR file.

## Shop Order Actual Issues

The following diagram outlines the process for handling errors that occur when you send shop order actual issues to Infor ERP LX.

### WMA Shop Order - Issues Upload Error Handling

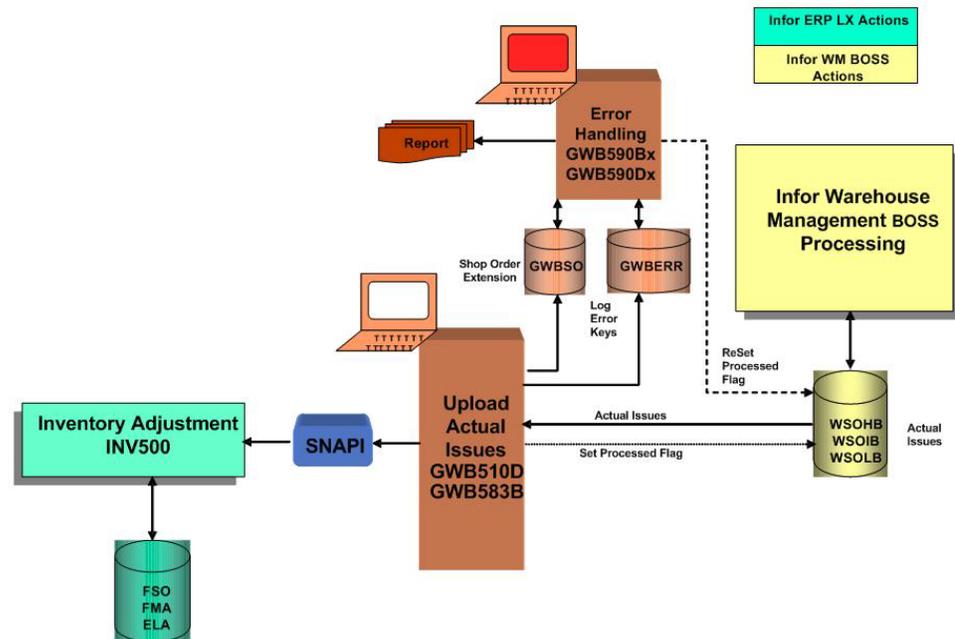


Figure 6-8: WMA Shop Order Issues—Upload Error Handling

- 1 When Infor SCM Warehouse Management BOSS processing is complete, use Upload Shipped Orders to Infor ERP LX (GWB510D) to select the actual issues to send from Infor SCM Warehouse Management BOSS to Infor ERP LX.
- 2 If the SNAPI encounters errors as it attempts to update Infor ERP LX with production receipts, it writes an error record to the GWBERR file.
- 3 Use View/Release WMA Transactions (GWB590D1) to review errors online or to print an error report.
- 4 After reviewing the error, make the appropriate adjustments in Infor ERP LX and/or Infor SCM Warehouse Management BOSS. Use View/Release WMA Transactions (GWB590D1) to release the record.
- 5 When you access Upload Actual Receipts to Infor ERP LX (GWB560D) to send receipt information from Infor SCM Warehouse Management BOSS to Infor ERP LX, the adapter sends all the issue records, including those you released from the GWBERR file.

## Shop Order Actual Receipts

The following diagram outlines the process for handling errors that occur when you send shop order actual receipts to Infor ERP LX.

### WMA Actual Shop Order Receipts Error Handling

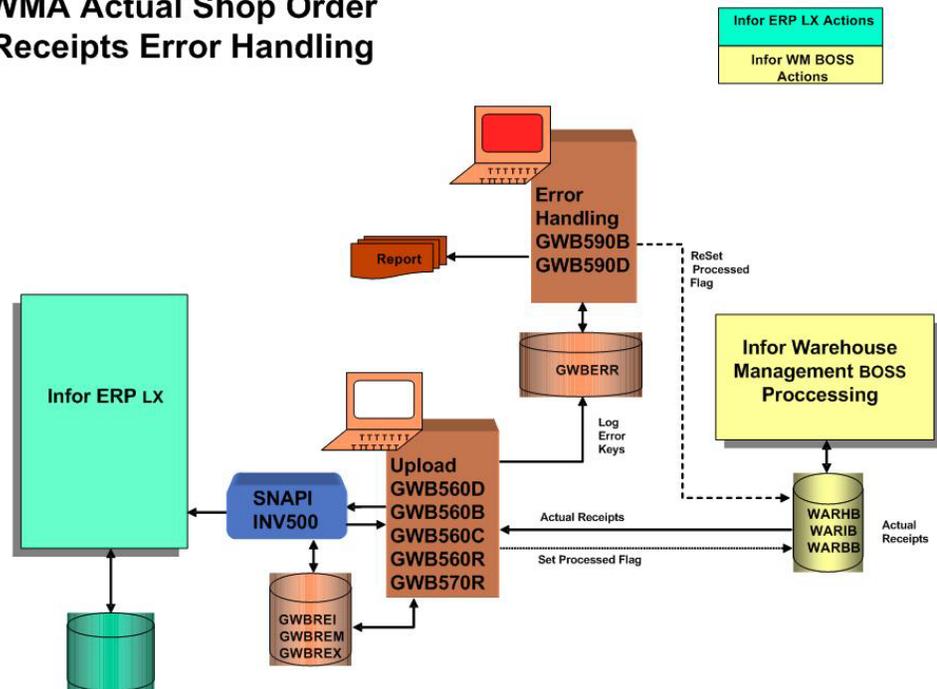


Figure 6-9: WMA Actual Shop Order Receipts Error Handling

- 1 When Infor SCM Warehouse Management BOSS processing is complete, use Upload Actual Receipts to Infor ERP LX (GWB560D) to select the actual production receipts to send from Infor SCM Warehouse Management BOSS to Infor ERP LX.
- 2 If the INV500 SNAPI encounters errors as it attempts to update Infor ERP LX with production receipts, it writes an error record to the GWBERR file.
- 3 Use View/Release WMA Interface Transactions (GWB590D1) to review errors online or to print an error report.
- 4 After reviewing the error, make the appropriate adjustments in Infor ERP LX and/or Infor SCM Warehouse Management BOSS. Use View/Release WMA Transactions (GWB590D1) to release the record.



- 4 After reviewing the error, make the appropriate adjustments in Infor ERP LX and/or Infor SCM Warehouse Management BOSS. Use View/Release WMA Transactions (GWB590D1) to release the record.
- 5 When you access Upload Actual Receipts to Infor ERP LX (GWB560D) to send inventory adjustment information from Infor SCM Warehouse Management BOSS to Infor ERP LX, the WMA sends all the inventory adjustment records, including those you released from the GWBERR file.

## Reprocessing Rejected Records

Orders that have been rejected by Infor SCM Warehouse Management BOSS or the WMA are held from further processing. You can review the information in error and reprocess it after you make corrections. Select them for reprocessing using View/Release WMA Transactions (GWB590D1).

To manage the rejected orders, print an error report to see a listing of all the rejected orders and a reason for why they were rejected. Alternatively, you can view the listing online. When you have identified the reason for the error and have corrected it, use View/Release WMA Transactions (GWB590D1) to select the orders for reprocessing.

When you download a customer or resupply order from Infor ERP LX to Infor SCM Warehouse Management BOSS, the WMA changes the status of the order so that you cannot maintain it in Infor ERP LX. When you select a rejected order for reprocessing, the adapter zero ship confirms the order lines so that you can make changes in Infor ERP LX to correct the error on the order.

## Printing an Error Report

Print an Error List Report (GWB590B1) to track the orders that have been rejected in the warehouse or the WMA. Use the error report to identify the reasons the orders have been rejected and, when you have addressed the reason for the problem, select the order for reprocessing.

Complete the following steps to print an error report:

- 1 Access View/Release WMA Transactions (GWB590D1). The system displays the WMA Return Rejects Selection Filter (GWB590D1-01) screen.
-

```

GWB590D1-01      ** V8.3.2 Warranty Environment **      QPADEV0023  6/29/07
SSAUSCHO          WMA Return Rejects Selection Filter      ENGD      13:56:48

Infor ERP LX Warehouse      3B  +  (required, except for report)

Record Type                  10  (valid record types listed below)

Blank = All                  30=Shop Order Material Request
10=Customer Order           31=Shop Order Material Issue
11=Customer Order Shipment  32=Shop Order Expected Receipt
20=Resupply Order Request   33=Shop Order Receipt
21=Resupply Shipment        42=Purchase Order
22=Resupply Expected Receipt 43=Purchase Order Receipt
23=Resupply Receipt         80=Inventory Adjustment
                              90=Inventory Transfer

Control Number              10132143      To 10132200

F1=Help F3=Exit F4=Prompt F9=Print

```

Figure 6-11: GWB590D1-01, WMA Return Rejects Selection Filter

Use the following fields to select the records to include on the report.

*Infor ERP LX Warehouse (4,A)*

Enter the Infor ERP LX warehouse code for a Warehouse Type=4 warehouse. This field is not required for a report.

*Record Type (4,A)*

Enter the type of record that you want to appear on the report. Valid entries are:

<b>Blank</b>	All
<b>10</b>	Customer Order
<b>11</b>	Customer Order Shipment
<b>20</b>	Resupply Order Request
<b>21</b>	Resupply Shipment
<b>22</b>	Resupply Expected Receipt
<b>23</b>	Resupply Receipt
<b>30</b>	Shop Order Material Request

<b>31</b>	Shop Order Material Issue
<b>32</b>	Shop Order Expected Receipt
<b>33</b>	Shop Order Receipt
<b>42</b>	Purchase Order
<b>43</b>	Purchase Order Receipt
<b>80</b>	Inventory Adjustment
<b>90</b>	Inventory Transfer

*Control Number (16,A)*

Enter a range of control numbers to process. Control numbers are system-assigned numbers used to track orders sent to Infor SCM Warehouse Management BOSS. Control numbers are unique for each order type:

- (Order number + Pick ticket) for customer and resupply orders
- (Purchase order number + warehouse) for purchase orders
- (Shop order number + WMA issue number) for shop orders
- (Infor SCM Warehouse Management BOSS adjustment control number, WINAB.IAACN) for inventory transactions

- 2** Press **F9=Print** to submit the job to print the report.
  - 3** Use the error report to track rejected orders, receipts, adjustments, and shipments for an Infor SCM Warehouse Management BOSS-controlled warehouse.
-

## Report Sample

The following is a sample of the Error List Report (GWB590B1) report.

```

GWB590B1                ** V8.3.2 Warranty Environment **                WSID QPADEV0023  6/29/07  Page  1
                        Selected Orders / Lines Rejected                User  ENGD      14:01:50
Selection:  Infor ERP LX Warehouse 3B      Record Type 10      Control Number 10132143      to 10132200
-----
Infor ERP LX Warehouse
Type Control Number  Line  Sub Release      Error  Item Number                Qty Rejected  Qty Accepted
-----
Infor ERP LX Warehouse  3B  Warehouse BOSS warehouse
Type Control Number  Line  Sub Release      Error  Item Number                Qty Rejected  Qty Accepted
-----
10  10132143  000342      1      013
10  10132143  000342      2      014  SHARKA                      48
10  10132144  000342      1      013
10  10132144  000342      2      014  SHARKA                      48
10  10132145  000342      1      013
10  10132145  000342      2      014  SHARKA                      48

```

Figure 6-12: Error List Report

The report includes the following information:

- Infor ERP LX Warehouse ID
- Type
- Control Number
- Line
- Subline
- Release
- Error code
- Item Number
- Quantity Rejected
- Quantity Accepted

## Displaying Error Records for Rejected Orders

Use View/Release WMA Transactions (GWB590D1) to review error records online. Complete the following steps to display an error record.

- 1 Access View/Release WMA Transactions (GWB590D1). The system displays the WMA Return Rejects Selection Filter (GWB590D1-01) screen.

- Use the following fields to select the records you want to review.

*Infor ERP LX Warehouse ID (4,A)*

Enter the Infor ERP LX warehouse code for a Warehouse Type=4 warehouse. This field is required.

*Record Type (4,A)*

Enter the type of record that you want to review. You can blank the field to display all record types for this warehouse. See Printing an Error Report for a list of record types.

*Control Number (16,A) (Optional)*

Enter the range of control numbers you want to display.

- Press Enter to display the Rejected Transaction Selection screen (GWB590D2-01).

```

GWB590D2-01      ** V8.3.2 Warranty Environment **      QPADEV0023  6/29/07
SSAUSCHO         Rejected Transaction Selection         ENGD       13:58:30

Infor ERP LX Warehouse      3B

Select action and press Enter.  5=Display  8=Position To  9=Select

Act Type Description                               Control Number  Error Count
█  10                                     10132143  000342      2
—  10 Customer Order                             10132144  000342      2
—  10 Customer Order                             10132145  000342      2

F1=Help  F3=Exit  F5=Refresh  F7=Backward  F8=Forward  F12=Cancel

```

Figure 6-13: GWB590D2-01, Rejected Transaction Selection

- The screen displays your selection criteria, including a list of all the control numbers for each error type. Use the following fields to choose the records you want to display.

*Act (2,A)*

Enter the code for the action you want to execute on either the prompt line (the blank line between the heading line and the list of existing records) or

next to a record. If you enter the code on the prompt line, you must also enter values in one or more key fields on the same line. Valid entries are:

- 5**            Display  
                 Display the selected error record.
  
- 8**            Position To  
                 Redisplay the list beginning with the values entered.
  
- 9**            Select  
                 Reprocess the entire order.

*Type (4,A)*

The screen lists record types you selected on the previous screen. If you entered only a warehouse on the previous screen, this screen lists all the record types in that warehouse. See "Printing an Error Report" for a list of record types.

If you enter an error record type code on the prompt line you must also enter a value in the Action (Act) field.

*Error Count (9,N)*

The screen displays the number of errors associated with the control number.

*Description*

The screen displays the description of the record type.

*Control Number (16,A)*

The screen lists all the control numbers for each record type. If you enter a control number on the prompt line you must also enter a value in the Action (Act) field to the left of the number.

- 5** When you have entered a line action code next to the Record type/Control number you want to display, press Enter. If the control number you want to display has more than one error associated with it, the system displays the Rejected Transaction Detail screen (GWB590D3-01).
-





**8** Position To  
Redisplay the list beginning with the values entered.

*Lot (15,A)*

The screen lists the lot numbers, if available. If you enter a lot number on the prompt line you must also enter a value in the Action (Act) field.

*Subline (4,N)*

The screen lists multiple errors as sublines. If you enter a subline number on the prompt line you must also enter a value in the Action (Act) field.

*Error*

The screen displays the error code and the error message for the subline.

- 9 When you have entered an Action Code next to the Line or Subline you want to display, press Enter. The system displays the WMA Transaction Problem Detail screen (GWB590D5-01).

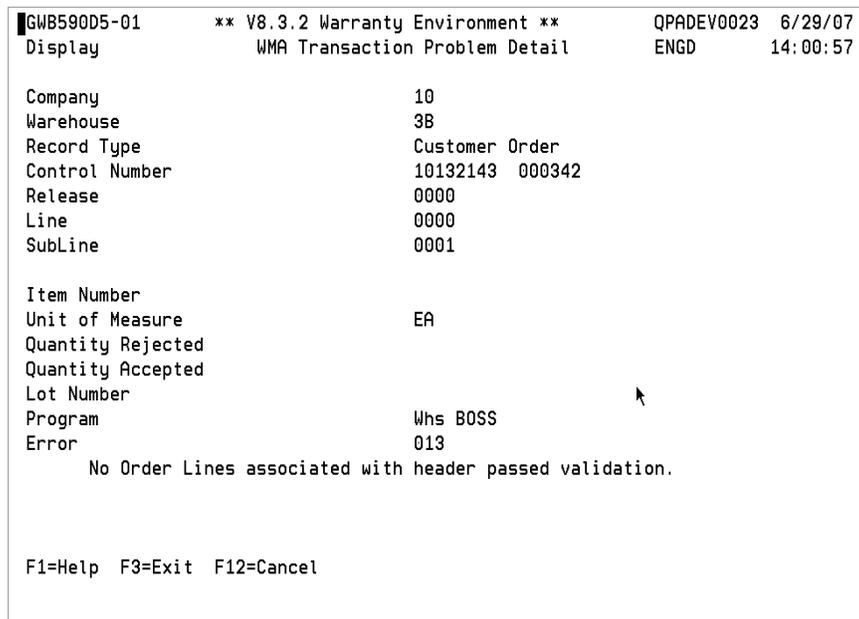


Figure 6-16: GWB590D5-01, WMA Transaction Problem Detail

*Company*

The Infor ERP LX company number.

*Warehouse*

The Infor ERP LX warehouse ID.

*Record Type*

The error record type.

*Control Number*

The identifier the system uses to track the order, receipt, or adjustment as it moves between Infor SCM Warehouse Management BOSS and Infor ERP LX.

*Release*

The release number for a blanket order.

*Line*

The order line number.

*Subline*

The order subline used to list multiple lot numbers.

*Item Number*

The item number.

*Unit of Measure*

The unit of measure for the quantity fields.

*Quantity Rejected*

The order quantity rejected by Infor SCM Warehouse Management BOSS or by an adapter program.

*Quantity Accepted*

The order quantity that Infor SCM Warehouse Management BOSS or the WMA program successfully processed.

*Lot Number*

The lot number for the order line or subline.

*Program*

Indicates whether the error was recognized and the error record written by Infor SCM Warehouse Management BOSS or by an adapter program.

*Error*

The error code and message text for the error.

---



- 4 Enter **9** in the *Act* field to select the record or, if the header record and order lines have multiple errors, enter **5** to display the line numbers that contain errors.
- 5 Press Enter to reprocess the selected records. If you entered **5** to display the order lines, go on to the next step.
- 6 The system displays the Rejected Transaction Detail (GWB590D3-01) screen. Enter **9** in the *Act* field to select an order line and then press Enter to reprocess the order line.

## Infor SCM Warehouse Management BOSS Order/Line Reject Codes

Infor SCM Warehouse Management BOSS rejects orders or order lines for the reasons listed in the following table. When you use View/Release WMA Transactions (GWB590D1), the reject code for the error appears on the screen.

Reject Code	Reason
001	Header record contains invalid company code (Infor ERP LX Facility code).
002	Header record contains invalid warehouse.
003	Warehouse referenced in header is not a shipping warehouse.
004	Header record contains invalid Order Type code.
005	Header record contains invalid Carrier code.
006	Carrier referenced in header is not assigned to a ship wave
007	Header record does not contain the customer address.
008	Header record does not contain an order number.
009	Header record does not contain a ship date.
010	Header record does not specify order priority.
011	Detail record does not specify the item number/order quantity.

---

Reject Code	Reason
012	Order is non-split, all line items rejected.
013	No order lines associated with this header passed validation.
014	Hard allocation – insufficient inventory.
015	No pick rule found in Infor SCM Warehouse Management BOSS for this item.
016	No line items passed soft allocation.
017	Order line item rejected = non-split order
018	Order line item rejected = non-split order line
019	Soft allocation – insufficient inventory.
020	Warehouse pick limit exceeded.
021	Hard allocation – insufficient requested lot inventory.
022	Item canceled by operator during shipping activities.
023	Item adjusted during shipping activities.
024	Soft allocation – insufficient labor.
025	Order canceled by operator during shipping activities.
026	Shipping Order Item record updated. During directed RF, operator picked less than the original quantity. The remaining (unavailable) quantity is written to the Reject Order file.
027	Shipping Order Item record deleted. During directed RF, operator could not pick from the assigned location/area.
028	Shipping Order Header record deleted. During RF Pick Confirm, all shipping order item records deleted because operator could not pick from location/area.
029	Soft allocation – insufficient requested lot inventory.
030	Non-lot controlled item: blank pick rule, item status or lot status in pick rule assignment record.

<b>Reject Code</b>	<b>Reason</b>
031	Multi-lot order item: blank pick rule, item status, or lot status in pick rule assignment record.
032	Single lot order item: blank pick rule, item status, or lot status in pick rule assignment record.
033	Lot specific order item: blank pick rule, item status, or lot status in pick rule assignment record.
034	Single Lot Order flag must be <b>N</b> for non-lot controlled item.
035	Lot ordered must be blank for non-lot controlled item.
036	Lot header not found for lot-specific order.
037	Lot not in correct status for lot-specific order.
038	Single Lot Order flag must be <b>Y</b> or <b>N</b> .
039	Invalid header, line item rejected.
040	Split Order Allowed flag must be <b>Y</b> or <b>N</b> .
041	Order line number is zero.
042	Duplicate line number.
043	Cross-Dock Allowed flag must be <b>Y</b> or <b>N</b> .
044	Split Line Item Allowed flag must be <b>Y</b> or <b>N</b> .
045	Invalid Packing Category.
046	All items failed hard allocation for header.
047	Value added field is invalid.
048	Shipped From Address code is invalid.
049	Non-split order rejected. Split order line exists.
050	Header record contains invalid Format for parcel Label.
500	Rejected from Remove Orders from File (OPM100).
807	Pack by Single Title flag must be <b>Y</b> or <b>N</b> .
822	Pack by Group flag must be <b>Y</b> or <b>N</b> .
823	Pack by Title flag must be <b>Y</b> or <b>N</b> .

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<b>Reject Code</b>	<b>Reason</b>
995	Non-split order. Line rejected due to failure of previous line.
998	Company/warehouse frozen for pick plan.
999	Pick plan was backed out.

---

## Notes

This chapter discusses using the Warehouse Management Adapter with the optional third-party AR Traffic Freight Management System (AR Traffic) for use within Infor SCM Warehouse Management BOSS and the optional Infor ERP LX module Electronic Commerce Manager (ECM).

The chapter consists of the following topics:

<b>Topic</b>	<b>Page</b>
Overview	7-2
AR Traffic Freight Management System	7-3
Electronic Commerce Manager (ECM)	7-6

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## Overview

The Warehouse Management Adapter supports the use of other interfaces to both Infor ERP LX and Infor SCM Warehouse Management BOSS. At the present time, the WMA supports the optional third-party AR Traffic Freight Management System (AR Traffic) for use within Infor SCM Warehouse Management BOSS and the optional Infor ERP LX module Electronic Commerce Manager (ECM).

If you are using AR Traffic, all rating and freight charges are determined within AR Traffic as called from Infor SCM Warehouse Management BOSS. The WMA extracts the billable freight information and returns it to the Infor ERP LX order maintenance program as a Special Charge order line.

The WMA works with ECM to generate outbound ASNs and invoices for order lines shipped from an Infor SCM Warehouse Management BOSS-controlled warehouse. After the orders are ship confirmed in Infor SCM Warehouse Management BOSS, the adapter notifies the ECM that ASNs are available for processing. Programs within ECM then extract the information to create the ASNs and invoices from the EDI files in Infor SCM Warehouse Management BOSS.

This chapter discusses using AR Traffic and ECM with the WMA to process shipping orders. See Chapter 2, "Shipping Orders," for more information.

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# AR Traffic Freight Management System

The WMA supports the optional use of the AR Traffic Freight Management System in Infor SCM Warehouse Management BOSS. AR Traffic is a third-party transportation software package available from AR Traffic Consultants, Inc.

AR Traffic includes several modules. If you are using an AR Traffic module in Infor SCM Warehouse Management BOSS to calculate freight charges, the WMA extracts the charges and sends the information back to the Infor ERP LX Order Maintenance (ORD700) program as a Special Charge order line. Infor SCM Warehouse Management BOSS retains all other information generated by AR Traffic.

## Special Considerations

Review the following considerations before you attempt to use WMA with AR Traffic.

- The AR Traffic product uses US dollars and performs the freight rating in US dollars. WMA does not support conversion from US dollars to another currency.
- WMA sends the total billable freight charge back to Infor ERP LX. All other freight information stays in Infor SCM Warehouse Management BOSS.
- WMA does not link to the Infor ERP LX Financial modules.
- WMA does not support the creation of a separate invoice for billing the customer for freight.
- The Infor ERP LX OLM module must be installed.

## Setup

Contact AR Traffic Consultants, Inc. for information on the requirements for their latest release before you install the product on your system and attempt to use it with the WMA.

Install AR Traffic and configure your Infor SCM Warehouse Management BOSS application to work with AR Traffic. See the *Warehouse BOSS AR Traffic Freight Management System Interface Guide* for complete information

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about setting up AR Traffic in Infor SCM Warehouse Management BOSS. Coordinate the various setup information related to freight between Infor ERP LX, Infor SCM Warehouse Management BOSS, and AR Traffic.

## Process Flow

The following diagram outlines the process flow for using the WMA to retrieve the total freight charge associated with AR Traffic freight ratings from Infor SCM Warehouse Management BOSS and to add the freight as a Special Charge order line in Infor ERP LX.

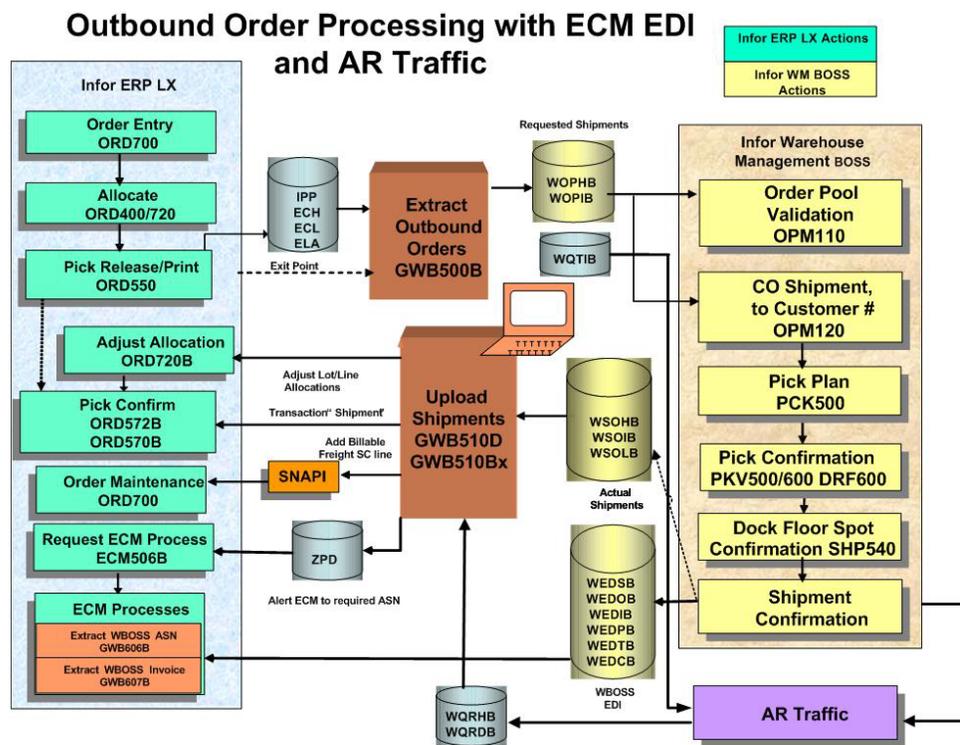


Figure 7-1: Outbound Order Processing with ECM EDI and ARTraffic

The process of sending orders to Infor SCM Warehouse Management BOSS is automated. It is described below. To retrieve information to return to Infor ERP LX, use the Upload Shipments (GWB510D) option. See Chapter 2, “Shipping Orders,” for instructions for using this program.

- Enter, allocate, and pick release customer orders for a Type=4 warehouse in Infor ERP LX.

- When Pick Release (ORD550) processes orders for a Type=4 warehouse, an exit point triggers the Extract Outbound Orders (GWB500B) program.
  - GWB500B extracts order information from the Infor ERP LX files and creates order records in the WOPHB and WOPIB files in Infor SCM Warehouse Management BOSS. If GWB500B finds that AR Traffic is installed, it also creates records for the order and carrier in the WQTIB file.
  - Infor SCM Warehouse Management BOSS completes the pick, pack, and shipment confirmation processes.
  - When orders are ship confirmed in Infor SCM Warehouse Management BOSS, you can use Upload Shipments (GWB510D) to send the order information to Infor ERP LX. The shipment information is available in the actual shipment files (WSOHB, WSOIB, WSOLB) and the summary freight information from AR Traffic is available in the WQRHB and WQRDB files.
  - Since the orders have been ship confirmed in Infor SCM Warehouse Management BOSS, when they come back into Infor ERP LX Pick Confirm (ORD570) they are at Ready for Invoicing status.
  - If the WMA finds that the total freight charge is billable to the customer, an Infor ERP LX SNAPi adds a new Special Charge line to the order using Order Maintenance (ORD700). The line includes the amount of the total freight with an appropriate Charge Code, Shipment Date, and the shipment Warehouse ID.
-

## Electronic Commerce Manager (ECM)

Electronic Commerce Manager (ECM) is the optional Infor ERP LX module that enables you to fully implement electronic commerce with your trading partners. When used with Infor SCM Warehouse Management BOSS and the WMA, ECM enables you to transmit EDI ASNs and invoices for order lines shipped from an Infor SCM Warehouse Management BOSS-controlled warehouse.

### Special Considerations

Review the following considerations before you attempt to use the WMA with ECM.

- To produce outbound EDI documents, purchase and install the Infor ERP LX ECM module. This application does not include mapping the information to the specific requirements of your trading partner. Professional Services professionals are available from Infor to assist you with this effort.
- The Infor ERP LX OLM module must be installed.
- If you require Tracking Numbers and order Pro Numbers for the orders shipped from Infor SCM Warehouse Management BOSS, you must install the AR Traffic software.

### Setup

Complete the following tasks to use ECM to create outbound ASNs and invoices for shipments from a WM BOSS –controlled warehouse .

- 1 Use Document Master Maintenance (OLM145D) to create a document type ECM WMA4 ASN with a generation program of ECM506B. Create a document type ECM INVOICE with a generation program of ECM507B.
  - 2 Use Order Class Maintenance (ORD170D) to attach the ECM WMA4 ASN document type to an order class and tie the document type to Pick Confirmation. Set the print flag to 2=Save for the ECM WMA4 ASN document to eliminate duplicate Print Control (ZPD) records from being created from the Pick Confirm processing.
-

- 3 Repeat Step 2 for the ECM INVOICE document type.
- 4 Use ECM ECA Trading Partner Functions Maintenance (ECM110D) to add the Outbound ASN Warehouse BOSS Extraction program (GWB606B) and the Outbound Invoice Warehouse BOSS Extraction program (GWB607B) to the function stack for your trading partner.

In the program list, insert GWB606B after ECM606B4 and insert GWB607B after ECM607B5.

## Process Flow

The following diagram outlines the process for using ECM to extract the information necessary to generate outbound ASNs and invoices for order lines shipped from an Infor SCM Warehouse Management BOSS-controlled warehouse.

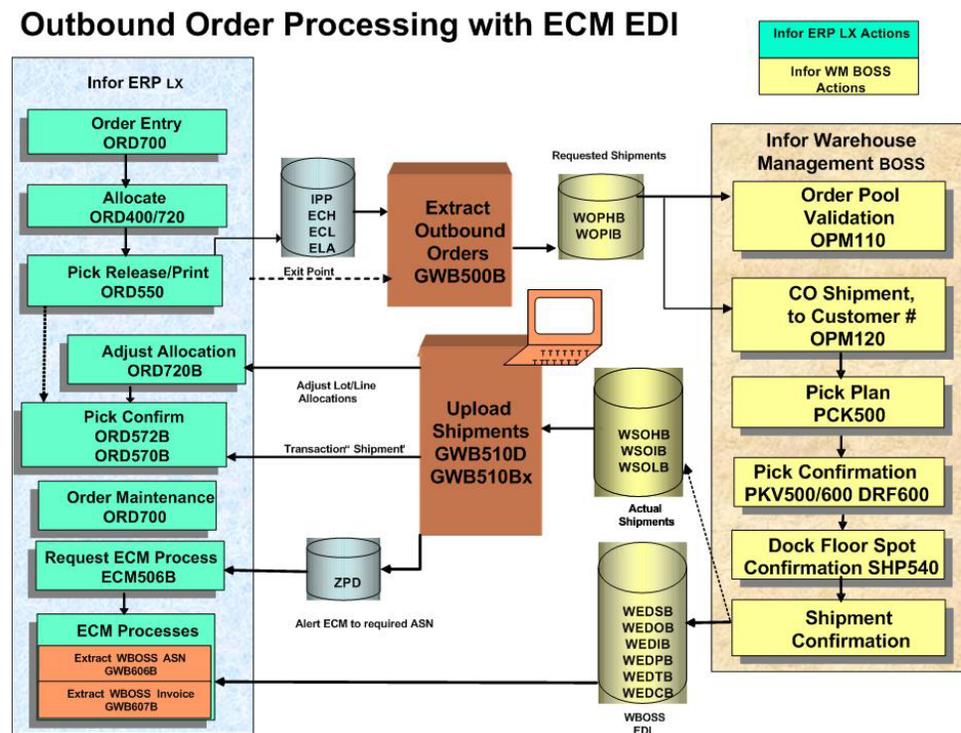


Figure 7-2: Outbound Order Processing with ECM EDI

The process of sending orders to Infor SCM Warehouse Management BOSS is automated. To retrieve information to return to Infor ERP LX, use the Upload Shipments (GWB510D) option. See Chapter 2, “Shipping Orders,” for instructions for using this program.

- Enter, allocate, and pick release customer orders for a Type=4 warehouse.
- When orders for a Type=4 warehouse are processed in Pick Release (ORD550), an exit point triggers Extract Outbound Orders (GWB500B).
- GWB500B extracts information from the Infor ERP LX order files and builds the requested shipment files in Infor SCM Warehouse Management BOSS.

The GWB500B programs looks at the Infor ERP LX Order Class Print Options (EOP) file and, when it finds records with the Document ID type ECM WMA4 ASN or ECM INVOICE, it creates a non-blank Trading Partner ID in the WOPHB file. This triggers the Infor SCM Warehouse Management BOSS software to populate the outbound EDI files.

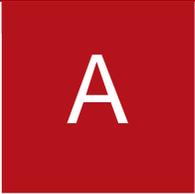
- Infor SCM Warehouse Management BOSS completes the pick, pack, and shipment processes.
- When order lines are ship confirmed in Infor SCM Warehouse Management BOSS, you can use Upload Shipments (GWB510D) to send the order information to Infor ERP LX. The shipment information is available in the actual shipment files (WSOHB, WSOIB, WSOLB) and the information to create ASNs and invoices is in the Infor SCM Warehouse Management BOSS EDI files.
- Upload Order Shipments to Infor ERP LX (GWB510D) does all of the following:
  - Sends the order lines ship confirmed in Infor SCM Warehouse Management BOSS to Pick Confirm (ORD570) in Infor ERP LX at Ready for Invoicing status.
  - Creates and processes the Print Control (ZPD) records for the ECM WMA4 ASN or ECM INVOICE document so that the proper keys of Trading Partner and Manifest number are on the records.
  - Notifies the ECM that EDI files are ready for processing. If WMA cannot send order lines back to Infor ERP LX, the ECM can still use the information in the EDI files to generate the ASN and invoice.
- When Request ECM Process (ECM506B) receives an alert for ASNs, the Extract Warehouse BOSS ASN program (GWB606B) populates the ECM Outbound ASN files with data from the Infor SCM Warehouse Management BOSS EDI Interface.

When Request ECM Process (ECM506B) receives an alert for Invoices, the Extract Warehouse BOSS Invoice program (GWB607B) populates the ECM Outbound Invoice files with data from the Infor SCM Warehouse Management BOSS EDI Interface.

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# Appendix A Technical Mapping



This appendix lists the mapping information between Infor ERP LX and Infor SCM Warehouse Management BOSS.

The chapter consists of the following topics:

<b>Topic</b>	<b>Page</b>
Overview	A-2
Shipping Order Fields Mapping	A-3
Expected/Actual Receipts Mapping	A-13
Production/Shop Floor Mapping	A-17
Inventory Transfer Files	A-23
Mapping WRJOB Error Records to the GWBERR File	A-26

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## Overview

The Warehouse Management Adapter maps information in Infor ERP LX files to Infor SCM Warehouse Management BOSS files when you download orders and expected receipts. It maps the actual shipment and receipt information and inventory adjustments from Infor SCM Warehouse Management BOSS files to Infor ERP LX files. This appendix describes these file mappings.

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## Shipping Order Fields Mapping

To ship an order from Infor SCM Warehouse Management BOSS, you must have a shipment order that duplicates the information on the customer order from Infor ERP LX. The batch program Shipping Order Download (GWB500B) passes the order information from Infor ERP LX to Infor SCM Warehouse Management BOSS, creating records in the Infor SCM Warehouse Management BOSS WOPHB and WOPIB files for the shipment order header and the shipment order lines respectively. When you select records for actual shipments to upload to Infor ERP LX, the interface maps the Infor SCM Warehouse Management BOSS actual shipment files to Infor ERP LX.

The following tables list the fields in Infor ERP LX that map to fields in the WOPHB and WOPIB files and the fields that map from the Infor SCM Warehouse Management BOSS WSOHB, WSOIB, and WSOLB files back to Infor ERP LX.

### Order Header Fields

The following table lists the information Infor SCM Warehouse Management BOSS retrieves from the Infor ERP LX order header file ECH.

Infor SCM Warehouse Management BOSS WOPHB Field Name	Infor ERP LX Source File	Infor ERP LX Source File Field Name/Processing
Company (POCOMP)	ECH	In WPBSB, BSBCMP where ECH.HWHSE=BSPWHS and ECH.HCOMP=BSPCMP
Order number (POORDN)	ECH	Order Number (HORD) concatenated with the Pick List number (IPP.PPLSTN)
Order Type (POORTY)	ECH	User Order Type (CHUTYP)
Carrier (POCARR)	ECH	Carrier (HCARR)
Truck Number for Shipment (POTRUK)	ECH	Route (HROUT)
Stop Number (POSTOP)	ECH	Zero (0)

<b>Infor SCM Warehouse Management BOSS WOPHB Field Name</b>	<b>Infor ERP LX Source File</b>	<b>Infor ERP LX Source File Field Name/Processing</b>
Order Priority (POOPRI)	ECH	00
Trading Partner ID (POTRDP)	ECH	Blank
Customer PO (POCPO)	ECH	Customer PO Number (HCPO)
Customer Address 1 (POCAD1)	ECH	Ship-to Name (HNAME)
Customer Address 2 (POCAD2)	ECH	Ship-to Attention Of (HATN)
Customer Address 3 (POCAD3)	ECH	Ship-to Address Line 1 (HAD1)
Customer Address 4 (POCAD4)	ECH	Ship-to Address Line 2 (HAD2)
Customer Address 5 (POCAD5)	ECH	Ship-to Address Line 3 (HAD3)
Customer Address 6 (POCAD6) State + Zip	ECH	State Code (HSTE)+<space>+ Ship-to Post Code (HPOST)  For Warehouse BOSS to print UCC-128 labels, the Customer Address 6 (POCAD6) filed must be the 12-character UCC Postal Code.
Scheduled Ship Date (POSCHD)	ECL	Schedule Date (LRDTE)
Can Order Be Split (POSPLO)		Y (Yes)
Warehouse ID (POWHS)	ECH	In WPBSB, BSBWHS where ECH.HWHSE=BSPWHS and ECH.HCOMP=BSPCMP
Site Identifier (POSITE)		For the WOPHB.POWHS value above, get the corresponding record from WWHSB where WOPHB.POWHS=WWHSB.WHWHHS and use the WWHSB.WHSITE
Service Level (POSRVL)		Blank

Infor SCM Warehouse Management BOSS WOPHB Field Name	Infor ERP LX Source File	Infor ERP LX Source File Field Name/Processing
Reference Field A (POREFA)	ECH	Customer Number (HCUST)
Reference Field B (POREFB)	ECH	Customer Ship-to Name (HNAME)
IOR Order (POIOR)		Blank
APP Order (POAPP)		Blank
SPP Order (POSPP)		Blank
MM Label (POMML)		Blank
Reference Field D (POREFD)	ECH	Derive the following from the Base Order Type (HDTYP) =CO for Customer Orders =RO for Resupply Orders =SO for Shop Orders
Trading Partner ID (POTRDP)		If EDI ASNs or EDI Invoices are required, a record representing this combination of HCUST and HSHIP is created in file GWBTF. WMA/Warehouse BOSS processing uses this trading partner representation.

## Order Line Fields

The following table lists the information that Infor SCM Warehouse Management BOSS retrieves from the Infor ERP LX order header and order line files.

Infor SCM Warehouse Management BOSS WOPIB Field Name	Infor ERP LX Source File	Infor ERP LX Source File Field Name/Processing
Company (IPCOMP)	ECH	Use the same as header file WOPHB, field IPCOMP
Order Number (IPORDN)	ECL	Order Number (LORD) concatenated with the Pick List number (6,N) passed with the Exit Point

Infor SCM Warehouse Management BOSS WOPIB Field Name	Infor ERP LX Source File	Infor ERP LX Source File Field Name/Processing
Line Number (IPLNBR)	ECL ELA	Order Line Number (LLINE) concatenated with one zero and the Lot Allocation Sequence Number (ASEQ)
Item (IPSKU)	ECL	Item Number (LPROD)
Order Quantity (IORDQ)	ECL ELA	<p>This value must be in eaches.</p> <p>The Infor ERP LX Item Master (IIM) and /or the UoM file (ICF) make the appropriate conversion/rounding using SYS039B2.</p> <p>The value in the Order Quantity field (IORDQ) equals the lesser of either:</p> <p>The sum of the Quantity Allocated. This is obtained by summing the allocations (LQALL, in stocking UoM) from the associated allocation records (ELA). Select records where:            ELA.ATYPE="C",            ELA.AORD = ECL.LORD,            ELA.ALIN = ECL.LLINE,            ELA.AWHS = ECL.LWHS</p> <p>or;            * the value in ECL.LQPCK (Quantity Picked)</p>
Cross-Dock Allowed? (IPCRDV)		N
Warehouse ID (IPWHS)	ECH	In WPBSB, BSBWHS where ECH.HWHSE=BSPWHS and ECH.HCOMP=BSPCMP
Can Line Item Be Split? (IPSPLL)		Y
Order Type (IPORTY)	ECL	User Order Type (CLUTYP)
Case Pack Ordered (IPCSEQ)		Zero (0)
UOM1 Pack Ordered		Zero (0)

Infor SCM Warehouse Management BOSS WOPIB Field Name	Infor ERP LX Source File	Infor ERP LX Source File Field Name/Processing
UOM2 Pack Ordered		Zero (0)
Quantity Ordered per Pallet		Zero (0)
Scheduled Ship Date (IPSCHD)	ECL	Scheduled Ship Date (LSDTE)
Lot Ordered (IPLOTO)	ELA	Lot# (ALOT) 10 alpha. Blank if lots not allocated.
Single Lot Order?		If a lot was specified / allocated in the ELA records, then set to "Y", else set to "N"

## Order Header and Line Fields for AR Traffic File

The following table lists the information that the WMA extracts from Infor ERP LX to create the WQTIB file. Infor SCM Warehouse Management BOSS uses the shipment information in WQTIB when AR Traffic is installed for use with Infor SCM Warehouse Management BOSS.

Infor SCM Warehouse Management BOSS/AR Traffic WQTIB Fields	Infor ERP LX Source File	Infor ERP LX Source File Field Name/Processing
Site Identifier (QISITE)		For the WOPHB.POWHS value, the corresponding record from WWHSB where WOPHB.POWHS = WWHSB.WHWHS. WWHSB.WHSITE= QISITE.
Warehouse ID (POWHS)	ECL	ECL.LWHSE
Company (POCOMP)	ECH	ECH.HCOMP
Order Number (POORDN)	ECH	Order Number (HORD) concatenated with two blanks and Pick List Number
Order Type (POORTY)	ECH	CHUTYP User Order Type
Mark-For Address Line (QIMARK)	ECH	Ship-To Attention Of HATN

<b>Infor SCM Warehouse Management Traffic WQTIB Fields</b>	<b>Infor ERP LX Source File</b>	<b>Infor ERP LX Source File Field Name/Processing</b>
City (QICITY)	ECH	HAD3
Ship-To ZIP (QIZIPC)	ECH	Ship-To Post Code HPOST
State (QISTAT)	ECH	State Code HSTE
County (QICNTY)	ECH	<spaces>
Country (QICTRY)	ECH	HCOUN
Scheduled Ship Date (QISODT)	ECL	Scheduled Date (LSDTE)
Ship Arrive-By Date (QISDDT)	ECL	LSCDT
Ship-To Account Number (QISACT)	ECH	Customer Number (HCUST) + Ship-to Number (HSHIP)
Customer Account Number (QICACT)	ECH	(same as QISACT)
Shipment Terms (QISTRM)	ECH	From CHTRMC (A,3)
Allow Carrier Change		Y
Allow Shipment Mode Change		Y
Allow Grouping for Order		Y
Order Traffic Status (QITSTS)		1
Consignee Company (QICONC)	ECH	HCARR
Consignee Phone (QICPHN)		<spaces>
Billing Charge Type (QIBCTY)		From the ECH.CHTRMC field, link to the LFT file. If the LFT.FTOINV is 1, then = PRE, else = COL

## Actual Shipment Order Header Fields

The following table lists the information that Infor SCM Warehouse Management BOSS sends from the WSOHB order header file to Infor ERP LX.

Infor SCM Warehouse Management BOSS WSOHB Field Name	Infor ERP LX Destination File	Infor ERP LX Destination File Field Name/Process
Company (OHCOMP)	ECH	Using the WPBSB file, find record where ECH.HWHSE = BSPWHS and ECH.HCOMP= BSPCMP ; use the corresponding BSPCMP value for ECH.HCOMP...
Order Number (OHORDN)	ECL	Order Number (ORDNO) substring from first 8 positions of OHORDN Order Number. (Concatenated two blanks and with Pick List Number (6 N) passed with the Exit Point.)
Order Type (OHORTY)	ECH	Not mapped back to Infor ERP LX
Carrier (OHCARR)	ECL	LCARR
Truck Number for Shipment (OHTRUK)	ECL	LROUT.
Stop Number (OHSTOP)		Not mapped back to Infor ERP LX
Trading Partner ID (OHTRDP)		Not mapped back to Infor ERP LX
Customer PO (OHCPO)	ECH	Not mapped back to Infor ERP LX
Ship Date (OHSCDT)	ECH	Scheduled Date (HSDTE)
Can Order be Split? (OHSPLO)		Not mapped back to Infor ERP LX
Warehouse ID (OHPWHS)	ECL	Warehouse (LWHS)
Site Identifier (OHSITE)		Not mapped back to Infor ERP LX
Reference Field A (OHREFA)		Not mapped back to Infor ERP LX

<b>Infor SCM Warehouse Management BOSS WSOHB Field Name</b>	<b>Infor ERP LX Destination File</b>	<b>Infor ERP LX Destination File Field Name/Process</b>
Reference Field B (OHREFB)		Not mapped back to Infor ERP LX
Reference Field D (OHREFD)		Not mapped back to Infor ERP LX

## Actual Shipment Order Lines

The following table lists the information that Infor SCM Warehouse Management BOSS sends from the WSOIB order line file to Infor ERP LX.

<b>Infor SCM Warehouse Management BOSS WSOIB Field Name</b>	<b>Infor ERP LX Destination File</b>	<b>Infor ERP LX Destination File Field Name/Process</b>
Company (OIPCMP)	ECL	Not mapped back to Infor ERP LX
Order Number (OIORDN)	ECL	See ECH
Line Number (OILNBR)	ECL ELA	Order Line Number (LLINE) concatenated with one zero and the Lot Allocation Sequence Number (ASEQ).
Item (OISKU)	ECH	Item Number (LPROD)
Quantity Ordered (OIORDQ)	ECL	Not mapped back to Infor ERP LX
Quantity Shipped (OISHQ)	ECL	LQPCK
Cross Dock Allowed? (OICRDV)		Not mapped back to Infor ERP LX
Warehouse ID (OIPWHS)	ECL	LWHS
Can Line Item be Split? (OISPLL)		Not mapped back to Infor ERP LX
Actual Ship Date (WSOHB.OHSCDT)	ECL	Actual Pick (Ship) Date (LRDTE)

Infor SCM Warehouse Management BOSS WSOIB Field Name	Infor ERP LX Destination File	Infor ERP LX Destination File Field Name/Process
Lot Controlled (OILOTC) Y/N		Determines if this item is lot controlled.  Not directly mapped back to Infor ERP LX
Lot Ordered (OILOTO)	ELA	Not directly mapped back to Infor ERP LX
Single Lot Order? (OISLOT) Y/N		Used in conjunction with the WSOLB file where multiple lots are shipped by Warehouse BOSS  Not directly mapped back to Infor ERP LX
Single Lot Order? (OISLOT) Y/N		Used in conjunction with the WSOLB file where multiple lots are shipped by Warehouse BOSS  Not directly mapped back to Infor ERP LX

## Actual Shipment Order Line Lot Control Fields

The following table lists the information that Infor SCM Warehouse Management BOSS sends from the WSOLB order line file to Infor ERP LX.

Infor SCM Warehouse Management BOSS WSOLB Field Name	Infor ERP LX Destination File	Infor ERP LX Destination File Field Name/Process
Company (OLPCMP)	ELA	Not mapped back to Infor ERP LX
	ELA	ATYPE = "C" (Customer Order)
Order Number (OLORDN)	ELA	See ECH, result to AORD
Line Number (OLLNBR)	ELA	Allocation Line Number (ALINE) concatenated with one zero and the Lot Allocation Sequence Number (ASEQ).
Item (OLSKU)	ELA	Item Number (APROD)

<b>Infor SCM Warehouse Management BOSS WSOLB Field Name</b>	<b>Infor ERP LX Destination File</b>	<b>Infor ERP LX Destination File Field Name/Process</b>
Quantity Shipped (OLQNT)	ELA	LQALL
Lot ID (OLLOTN)	ELA	ALOT
Cross Dock Allowed? (OLCRDV)		Not mapped back to Infor ERP LX
Warehouse ID (OLPWHS)	ECL	LWHS

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## Expected/Actual Receipts Mapping

The following topics provide tables for the mapping of expected and actual receipts between Infor ERP LX to the Infor SCM Warehouse Management BOSS.

### Resupply Order Expected Receipts Header Fields

The following table lists the mapping of resupply order expected receipts from Infor ERP LX to the Infor SCM Warehouse Management BOSS WERHB file.

Infor SCM Warehouse Management BOSS WERHB Field Name	Infor ERP LX Source File	Infor ERP LX Source File Field Name/Process
Company (EICOMP)	ECH	Infor ERP LX Company Number (HCOMP), translated using Warehouse BOSS file WPBSB using WPBSB.BSBCMP
Warehouse ID (EHWHS)	ECL	Shipped_To_Warehouse (ECL.LTOWH), translated using Warehouse BOSS file WPBSB using BSBWHS
Receipt Number (EIRNBR)	ECH / ECL	Order Number (ECL.LORD)
Receipt Type (EIRTYP)	ZPA	From ZPA file, PKEY="WM4RTCRS", =first two characters in ZPA.DATA
Originator (EHORIG)		Text: "WHS " concatenated with ECH.HWHSE
Originator Description (EHORGD)		"RO"
Date Ordered (EHORDT)	ECH	HEDTE.
Date Due (EHDUDT)	ECH	LSCDT unless null, then use LRDTE

Infor SCM Warehouse Management BOSS WERHB Field Name	Infor ERP LX Source File	Infor ERP LX Source File Field Name/Process
Contact Person (EHCNTC)	ECH	Ship_To_Attention_Of (HATN)

## Resupply Order Expected Receipts Line Fields

The following table lists the mapping of resupply order expected receipt lines from Infor ERP LX to the Infor SCM Warehouse Management BOSS WERIB file.

Infor SCM Warehouse Management BOSS WERIB Field Name	Infor ERP LX Source File	Infor ERP LX Source File Field Name/Processing
Company (IPCOMP)	ECH	See WERHB above
Receipt Type (EIRTYP)	ECH	See WERHB above
Receipt Number (EIRNBR)	ECH / ECL	See WERHB above
Line Number (EILNBR)	ECL	Order Line Number (LLINE)
Item (IPSKU)	ECL	Item Number (LPROD)
Expected Receipt Quantity (EIEXPQ)	ECL	(See description in above processing section)
Reference Field B (EIREFB)		"RO" required and passed through to actual receipt allowing WMA to identify order type for upload.

## Purchase Order Actual Receipt Fields

The following is the mapping from the Actual Receipt files in Infor SCM Warehouse Management BOSS back to the PUR550 program screens (using the SNAPI) for receipt of Purchase Orders.

SNAPI Program.Screen/Field	Populated From	Comments
PUR550D1-01 Transaction Type	Default value from ZPA	PO Receipt Transaction Type

SNAPI		
Program.Screen/Field	Populated From	Comments
PUR550D2-02 Receiver Ticket Number	WARBB.ABRCN	Receipt Control Number
PUR550D1-01 Purchase Order	WARBB.ABRNBR	PO Number extracted from first 6 characters of Receipt Number
PUR550D2-02 Warehouse	WARBB.ABWHS	Warehouse ID
PUR550D1-01 Transaction Date	WARHB.AHRCDT	Receipt Date
PUR550D2-02 Date		
PUR550D1-01 Advice Note Date Advice Note	WARHB.AHCMNT	Receipt Comment
PUR550D2-02 PO Line	WARBB.ABLNBR	PO Line Number
PUR550D2-02 Item	WARIB.AISKU	Item
PUR550D2-02 Quantity Received	WARBB.ABACTQ	Quantity Received
PUR550D2-02 Unit of Measure	WARIB.AISTDU	Unit of Measure
PUR550D2-02	WARBB.ABLOTN	Lot Number Received
PUR550D2-02 Warehouse Location	Defaults from ZPA (do not override)	Warehouse Location

## Resupply Order Actual Receipt Fields

The following is the mapping from the Actual Receipt files in Infor SCM Warehouse Management BOSS back to the DRP550 program screens (using the SNAPI) for receipt of ReSupply Orders

<b>SNAPI</b>		
<b>Program.Screen/Field</b>	<b>Populated From</b>	<b>Comments</b>
DRP550D-01 Transaction Type	Hard coded in standard Infor ERP LX SNAPI being used Set to " <u>H</u> "	Receipt Transaction Type
(Not used)	WARBB.ABRN	Receipt Control Number
DRP550D-01 ReSupply Order	WARBB.ABRNBR	ReSupply Order Number extracted from first 8 characters of Receipt Number
DRP550D-02 Warehouse	WARBB.ABWHS	Warehouse ID
DRP550D-01 Transaction Date	WARHB.AHRCDT	Receipt Date
DRP550D-02 Date		
DRP550D-02 Order Line	WARBB.ABLNBR	ReSupply Line Number
DRP550D-02 Item	WARIB.AISKU	Item
DRP550D-02 Quantity Received	WARBB.ABACTQ	Quantity Received
(not used)	WARIB.AISTDU	Unit of Measure
DRP550D-02	WARBB.ABLOTN	Lot Number Received
DRP550D-02 Warehouse Location	Defaults from ZPA (do not override)	Warehouse Location

# Production/Shop Floor Mapping

The following tables list the files and fields the interface uses to move information for shop floor and production orders between Infor ERP LX and Infor SCM Warehouse Management BOSS.

## Shop Order Header Fields

The following table lists the source file and fields that the interface uses to create shipment order header records for issues from an Infor SCM Warehouse Management BOSS warehouse.

<b>Infor SCM Warehouse Management BOSS</b>		
<b>WOPHB Field Name</b>	<b>Infor ERP LX Source File</b>	<b>Infor ERP LX Source File Field Name/Process</b>
Company (POCOMP)	ELA, IWM	
Order Number (POORDN)	ELA	Order number (ELA.AORD) concatenated with the WMA Operation Parameter "Next Available Material Issue Number"
Order Type (POORTY)	WMA Operation Parameter	Issue Order Type for Shop Orders
Carrier (POCARR)		Blank
Truck Number for Shipment (POTRUK)		Blank
Stop Number (POSTOP)		Zero (0)
Order Priority (POOPRI)		"00"
Trading Partner ID (POTRDP)		Blank
Customer PO (POCPO)		Blank

<b>Infor SCM Warehouse Management BOSS</b>		
<b>WOPHB Field Name</b>	<b>Infor ERP LX Source File</b>	<b>Infor ERP LX Source File Field Name/Process</b>
Customer Address 1 (POCAD1)		"Shop Order"
Customer Address 2 (POCAD2)	IIM	Attention Contact (IPURC)
Customer Address 3 (POCAD3)		Blank
Customer Address 4 (POCAD4)		Blank
Customer Address 5 (POCAD5) City		Blank
Customer Address 6 (POCAD6) State + Zip		Blank
Schedule Shipped Date	GWB580	The requested issue date from the GWB580 entry screen
Can Order be Split?		Y
Warehouse ID (POWHS)	ELA	ELA.
Site Identifier (POSITE)		For the WOPHB.POWHS value above, get the corresponding record for WWHSB where WOPHB.POWHS=WWHSB.WHWHS and use the WWHSB.WHSITE value for POSITE.
Service Level (POSRVL)		Blank
Reference Field A (POREFA)		Blank
Reference Field B (POREFB)	IWM	Warehouse Description (LDESC)
Reference Field D (POREFD)		Type of Infor ERP LX order (SO)
IOR Order (POIOR)		Blank

<b>Infor SCM Warehouse Management BOSS</b>		
<b>WOPHB Field Name</b>	<b>Infor ERP LX Source File</b>	<b>Infor ERP LX Source File Field Name/Process</b>
APP Order (POAPP)		Blank
SPP Order (POSPP)		Blank
MM Label (POMML)		Blank

## Shop Order Line Fields

The following table lists the source file and fields that the interface uses to create shipment order line records for issues from an Infor SCM Warehouse Management BOSS warehouse.

<b>Infor SCM Warehouse Management BOSS</b>		
<b>WOPHB Field Name</b>	<b>Infor ERP LX Source File</b>	<b>Infor ERP LX Source File Field Name/Process</b>
Company (IPCOMP)	WOPHB	Use same as header file WOPHB, field POCOMP
Order Number (IPORDN)	WOPHB	Use same as header file WOPHB, field POORDN
Line Number (IPLNBR)	FMA	Sequence Number (MSEQ)
Item (IPSKU)	ELA	Item Number (LPROD)
Order Quantity (IPORDQ)	GWBSO	If the unit of measure ELA.LAQELP is not eaches, use the Infor ERP LX Item Master (IIM) and/or the UOM file (ICF) to make the appropriate conversion using SYS039B2 (common Infor ERP LX program).  The value entered in the Order Quantity (GWSRQT) field is the Release Quantity in GWBSO.
Cross Dock Allowed (IPCRDV)		N
Warehouse ID (IPWHS)		Use same as WOPHB.IPWHS

<b>Infor SCM Warehouse Management BOSS WOPHB Field Name</b>			<b>Infor ERP LX Source File</b>	<b>Infor ERP LX Source File Field Name/Process</b>
Can Line Item be Split?				Y
Order Type (IPTY)		WMA System Parm		Issue Order Type for Shop Orders
Case Pack Ordered (IPCSOQ)				zero (0)
UOM1 Pack Ordered				zero (0)
UOM2 Pack Ordered				zero (0)
Quantity Ordered per Pallet				zero (0)
Scheduled Ship Date (IPSCHD)	FMA			Date Required (FMA.MRDTE)
Lot Ordered (IPLTO)	ELA			Lot# (ALOT) 10 alpha. blank if lots not allocated, one lot per line. If multiple lots then multiple orders/order lines must be created.
Single Lot Order? (IPSLTO)				Y

## Mapping Actual Shipment Order Header to the INV SNAPI

The following table describes the mapping of the Infor SCM Warehouse Management BOSS WSOHB, WSOIB, and WSOLB files to the INV SNAPI script properties.

<b>Infor SCM Warehouse Management BOSS</b>	<b>Property Name</b>	<b>Program</b>	<b>Panel</b>	<b>Panel Field</b>	<b>Type</b>
OISKU	InventoryItemCode	INV500D2	PANEL02	XPROD	String
Inventory UOM BPCS IIM	InventoryUnitCode	INV500D2	PANEL02	XSUM	String
System Value WMA	LocationCode	INV500D2	PANEL02	XLOC	String

**Infor SCM  
Warehouse**

<b>Management BOSS</b>	<b>Property Name</b>	<b>Program</b>	<b>Panel</b>	<b>Panel Field</b>	<b>Type</b>
OLLOTN	ManufactureLotCode	INV500D2	PANEL02	XLOT	String
OHORDN (first 8 positions)	OrderRef	INV500D2	PANEL02	XREF	Long
OILNBR	OrderRef.Line	INV500D2	PANEL02	XMREL	Long
Screen default from transaction type	ReasonCode	INV500D2	PANEL02	XRES	String
OHSCDT	TxDate	INV500D2	PANEL02	XDATE	Date
	TxQty	INV500D2	PANEL02	XSQTY	Decimal
System Value WMA	TxTypeCode	INV500D1	PANEL01	XTRAN	String
LWHS	WarehouseCode	INV500D2	PANEL02	XWHS	String

## Mapping Actual Shop Order Receipts to the INV SNAPI

The following table describes the mapping of the Infor SCM Warehouse Management BOSS WARBH file to the INV SNAPI script properties.

**Infor SCM  
Warehouse**

<b>Management BOSS</b>	<b>Property Name</b>	<b>Program</b>	<b>Panel</b>	<b>Panel Field</b>	<b>Type</b>
ABRCN	Comment	INV500D2	PANEL02	XCOM	String
AISKU	InventoryItemCode	INV500D2	PANEL02	XPROD	String
Inventory UOM BPCS IIM	InventoryUnitCode	INV500D2	PANEL02	XSUM	String
System Value WMA	LocationCode	INV500D2	PANEL02	XLOC	String
ABXEDT	ManufacturerCode.ManufactureDate	INV500D2	PANEL02	XMDTE	Date
ABLOTN	ManufactureLotCode	INV500D2	PANEL02	XLOT	String
ABRNBR	OrderRef	INV500D2	PANEL02	XREF	Long
Screen default from transaction type	ReasonCode	INV500D2	PANEL02	XRES	String
AHRCDT	TxDate	INV500D2	PANEL02	XDATE	Date
See above	TxQty	INV500D2	PANEL02	XSQTY	Decimal

**Infor SCM****Warehouse**

<b>Management</b>	<b>Property Name</b>	<b>Program</b>	<b>Panel</b>	<b>Panel Field</b>	<b>Type</b>
System Value WMA	TxTypeCode	INV500D1	PANEL01	XTRAN	String
ABWHS	WarehouseCode	INV500D2	PANEL02	XWHS	String

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## Inventory Transfer Files

The following topics include descriptions of file mapping for inventory reconciliation and inventory adjustments.

### Infor SCM Warehouse Management BOSS Reconciliation Header File (WIPHB)

The following table describes mapping of Infor ERP LX database fields to Infor SCM Warehouse Management BOSS Reconciliation Header file WIPHB.

Field	Add/Chg/Del	Format	Description
BHSCN	Add	N, 8P	Input Parm. VPSSCN
BHSSYS		A, 5	Input Parm. VPSYSN
BHJTYP		A, 10	Input Parm. VJOBID
BHSTDT		L	First 6 positions of current system value TIME, when the job begins. Converted to L Date type
BHSTTM		N, 6P	Positions 7-12 of current system value TIME when the job begins.
BHENDT		L	First 6 positions of system value TIME just prior to completing this job and setting on LR. Converted to L Date type
BHENTM		N, 6P	Positions 7-12 of system value TIME just prior to completing this job and setting on LR.

### Infor SCM Warehouse Management BOSS Reconciliation Detail File (WIPDB)

The following table describes the mapping of Infor ERP LX database fields to Infor SCM Warehouse Management BOSS Reconciliation Detail file WIPDB.

Field	Add/Chg/Del	Format	Description
BDSCN	Add	N, 8P	Input Parm. VPSSCN
BDSSYS		A, 5	Input Parm. VPSYSN
BDTSEQ		A, 2	10
BDQTYU		A, 1	"A"
BDINVT		A, 10	"PBS ONHAND"
BDWHS		A, 4	The Warehouse ID being processed from IWM.
BDCOMP		A, 3	Select from file WPBSB where BSBWHS is equal to VPWHS. If found, move BSBCMP.
BDSKU		A, 15	Item number from Infor ERP LX warehouse inventory record.
BDLOTN		A, 3	Lot number from Infor ERP LX Lot Bin file (if supported)
BDLOTS		A, 3	If Infor ERP LX Lot inventory is supported move "AVL" else move "--"
BDISTA		N, 9P	AVL
BDQTY		L	Opening Balance-Issues+receipts+/-adjustments in "EA" unit of measure.
BDENDT		N, 6P	First 6 positions of system value TIME just prior to writing a WIPDB record. Converted to L Date type
BDENTM			Positions 7-12 of system value TIME just prior to writing a WIPDB record.

## Inventory SNAPI File

The following table describes the mapping of Infor SCM Warehouse Management BOSS WINAB file to the INV SNAPI script properties.

**Infor SCM  
Warehouse  
Management  
boss/WINAB**

	Property Name	Program	Panel	Panel Field	Type
IAACN	Comment	INV500D2	PANEL02	XCOM	STRING
IASKU	InventoryItemCode	INV500D2	PANEL02	XPROD	STRING
BPCS INV UOM IIM	InventoryUnitCode	INV500D2	PANEL02	XSUM	STRING
System Value ZPA, Pkey = WM4FRLOC	LocationCode	INV500D2	PANEL02	XLOC	STRING
IAXEDT	ManufacturerCode. ManufactureDate	INV500D2	PANEL02	XMDTE	DATE
IALOTN	ManufacturerLotCode	INV500D2	PANEL02	XLOT	STRING
Screen default from transaction type	ReasonCode	INV500D2	PANEL02	XRES	STRING
	RedesignateInventoryItemCode	INV500D2	PANEL02	RPROD	STRING
	ToOrderRef	INV500D2	PANEL02	XREF2	STRING
	ToOrderRef.Line	INV500D2	PANEL02	XMREL2	LONG
	TotalCost	INV500D2	PANEL02	XVAL	DECIMAL
ADJDAT – IAADJT	TxDate	INV500D2	PANEL02	XDATE	DATE
IATAJQ	TxQty	INV500D2	PANEL02	XSQTY	DECIMAL
IAATYP (where IAATYP=1 or 2 characters)	TxTypeCode	INV500D1	PANEL01	XTRAN	STRING
IAPWHS	WarehouseCode	INV500D2	PANEL02	XWHS	STRING

## Mapping WRJOB Error Records to the GWBERR File

The following table lists the mapping of records from the Infor SCM Warehouse Management BOSS WRJOB error file to the interface GWBERR error file.

Infor SCM Warehouse Management BOSS GWBERR Field Name	WM BOSS Source File	Infor SCM Warehouse Management BOSS Source File Field Name/Processing
Record ID (GWBRIID)		"GW"
ERROR from Program ID (GWEPGM)		"WhsBOSS"
BOSS Company (GWEWCO)	WRJOB	ROCOMP
BOSS Warehouse ID (GWBWHS)	WRJOB	ROWHS
PBS Warehouse ID (GWBBWH)	WRJOB	ROPWHS
PBS Company (GWBBCO)	WRJOB	ROPCMP
PBS Facility (GWBFAC)		<spaces>

Infor SCM Warehouse Management BOSS GWBERR Field Name	WM BOSS Source File	Infor SCM Warehouse Management BOSS Source File Field Name/Processing
Type of Record (GWETYP)		<p>For records coming from WRJOB:            First check for Shop Floor = 30            If there is an entry in the WRJOB.ROSFOR, then the order is for a shop order.</p> <p>Next check for Customer / ReSupply orders:            =10            If using the WRJOB.ROORTY the corresponding record in the EOT file:            (OTUTYP) has a Base Order Type            (OTBTYP) = "1" (Customer Order)</p> <p>=20            If using the WRJOB.ROORTY the corresponding record in the EOT file            (OTUTYP) has a Base Order Type            (OTBTYP) = "9" (ReSupply Order)</p>
SubType of Record (GWESTP)		<p>= "H" If GWELIN &lt;&gt; &lt;spaces&gt;;            Else            = "L"</p>
Error reported from (GWEWHO)		<p>"B" (Warehouse Management BOSS)</p>
Error Code (GWEROR)	WRJOB	RORJTR
Control Number (GWEORD)	WRJOB	ROSFOR, if Shop Order
Release Number (GWEREL)	WRJOB	ROSFRE for Shop Order, else <spaces>
Batch Number (GWEBAT)	WRJOB	ROSFBA for Shop Order, else <spaces>

<b>Infor SCM Warehouse Management BOSS GWBERR Field Name</b>	<b>WM BOSS Source File</b>	<b>Infor SCM Warehouse Management BOSS Source File Field Name/Processing</b>
Line Number (GWELIN)	WRJOB	ROLNBR for Customer Order / ReSupply order  ROSFSE (Shop Floor Order Sequence) if Shop Order
SubLine Number (GWESUB)	WRJOB	ROALSQ
Allocation Line (GWBALL)		<spaces>
Item Number (GWEITM)	WRJOB	Item Number (ROSKU)
Warehouse Location (GWELOC)		<spaces>
Lot Number (GWELOT)		<spaces>
Quantity Handled (GWEQOK)	WRJOB	ROREMQ
Number of Pieces Rejected (GWEQRJ)	WRJOB	RORJTQ
Quantity Unit of Measure (GWEUOM)		"EA"
GWERF1	WRJOB	ROPPLN Pick Plan number
GWERF2	WRJOB	ROORTY Order Type>
GWERF3		<spaces>
GWERF4		<spaces>
Error Text (GWERTX)		<spaces>

The Warehouse Management Adapter uses four business objects to upload Infor SCM Warehouse Management BOSS transactions to Infor ERP LX. The Screen Navigator API (SNAPI) Driver Program (GWB560C) facilitates this process. This chapter discusses using the business objects with the Warehouse Management Adapter.

The chapter consists of the following topics:

<b>Topic</b>	<b>Page</b>
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## Overview

The Warehouse Management Adapter uses four business objects (Inventory, PORceipt, RORceipt, and CustomerOrder) to upload Infor SCM Warehouse Management BOSS transactions to Infor ERP LX. The Screen Navigator API (SNAPI) Driver Program (GWB560C) facilitates this process.

The CustomerOrder business object uploads only special charges. WMA uses an API to upload all other customer order information from Infor SCM Warehouse Management BOSS to Infor ERP LX.

For more information, see the *Screen Navigator API (SNAPI) Installation Guide*.

---

# SNAPI Driver Program (GWB560C) Process Flow

SNAPI Driver Program (GWB560C) uses a dedicated port and the WMAMSG program to invoke the appropriate business objects. The following diagram provides the logic flow of GWB560C.

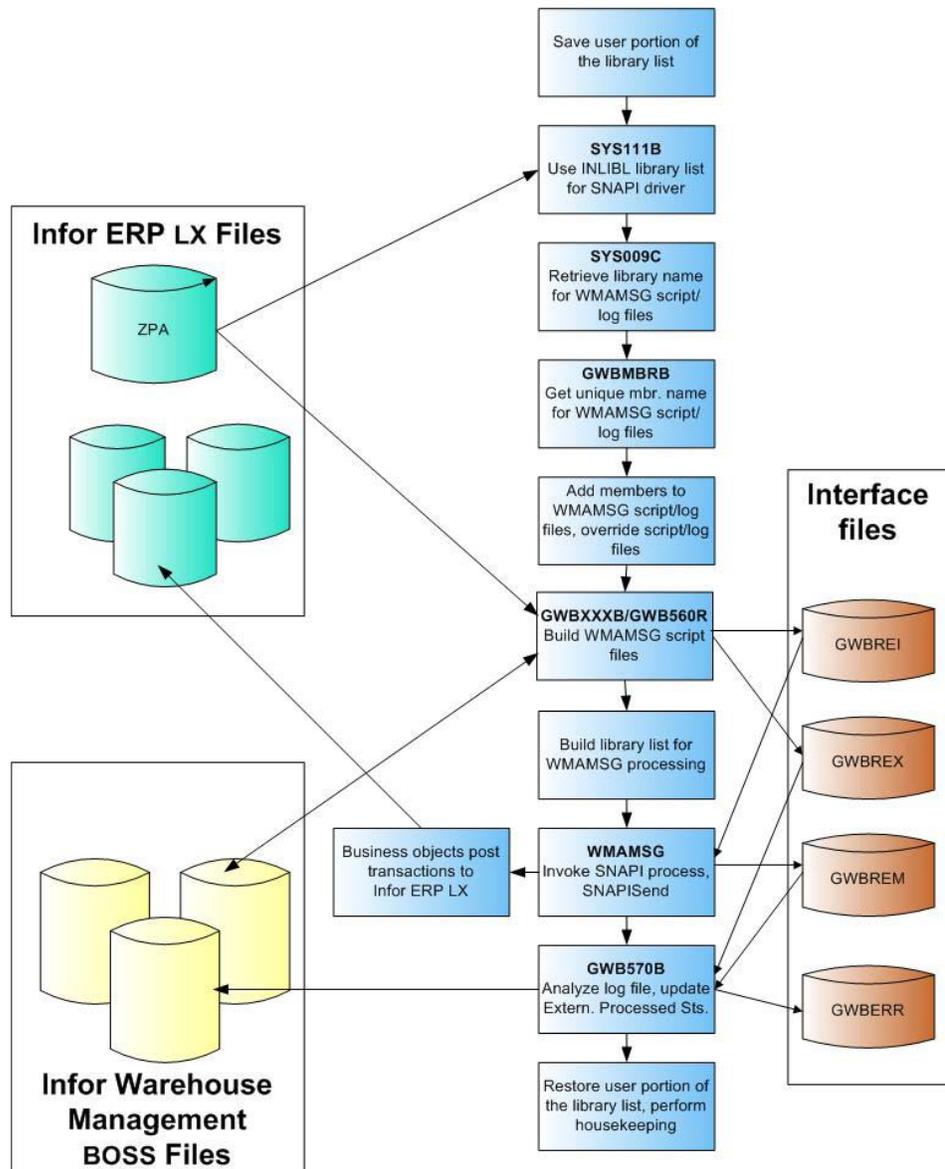


Figure B-1: GWB560C Logic Flow

The Upload Shipped Orders to Infor ERP LX (GWB510D), Upload Actual Receipts to Infor ERP LX (GWB560D), and Upload Inventory Adjustments to Infor ERP LX (GWB610) prompt programs invoke the SNAPI Driver Program (GWB560C). These programs pass the following standard Infor ERP LX processing parameters:

- RTPARM – 1-byte run-time parameter
- PLIST – 256-byte character field. The first ten bytes contain the name of the script-building program: GWB560B, GWB610B or GWB583B. Bytes 11 through 20 contain the name of the user who initiated the process.
- SLIST – 256-byte character field that contains the warehouse name (bytes 1 and 2) and the rest of the user selections from the invoking prompt screen

Infor SCM Warehouse Management BOSS transactions are grouped into SNAPI requests. Each request contains one or more Post messages (upload transactions) at the end of the request. Each request contains Post messages for a single warehouse and one or more business objects: Inventory, PORceipt, RORceipt, or CustomerOrder for special charges.

Using a unique file member for each SNAPI request allows the running of several SNAPI jobs simultaneously. The GWBMBRB program dynamically creates a ten-byte member name in the format WWhhmmssxx; where WW is the warehouse name, hhmmssxx represents hours, minutes, seconds and milliseconds extracted from the system time. Note that, if the first byte of the warehouse name is numeric, it will be replaced with the letter 'M'.

The GWB560C program performs the following functions:

- Writes records to the WMAMSG script file GWBREI and the WMAMSG script-cross reference file GWBREX
  - Builds the SNAPI driver (GWB560C) library list
  - Uses WMAMSG to upload Infor SCM Warehouse Management BOSS transactions to Infor ERP LX and records the processing responses in the GWBREM file
  - Analyzes the WMAMSG log file (GWBREM), updates the Externally Processed Status fields in the Infor SCM Warehouse Management BOSS files, updates the GWBREX file, and writes errors to the GWBERR file
-

## Creating WMAMSG Script Files

Prior to invoking script-building programs, a new member WWhmmssxx is added to the script file GWBREI, the script cross-reference file GWBREX, and the log file GWBREM by means of overrides.

GWB560C can call four different WMAMSG script-building programs, based on the content of the first ten bytes of the PLIST parameter:

- GWB510C (Special Charges)
- GWB560B (Resupply Order Receipts, PO Receipts)
- GWB583B (Shop Order Material Issues)
- GWB610B (Inventory Adjustments)

Each of these programs extracts Infor SCM Warehouse Management BOSS transactions to be uploaded to Infor ERP LX by calling GWB560R to format the Post message and write records to the WMAMSG script file GWBREI and the script cross reference file GWBREX.

GWB510C handles special charges, GWB560B processes actual receipts, GWB583B handles shop order material issues, and GWB610B deals with inventory adjustments and transfers. These programs have the same parameters as GWB560C.

When a Post message is added to the script files, the Infor SCM Warehouse Management BOSS Externally Processed Status field in the appropriate Infor SCM Warehouse Management BOSS upload files is set to 8. This indicates that the transaction is being processed by SNAPI and that it is to be excluded during subsequent executions of the script-building programs.

---

## Building SNAPI Driver Library List

GWB560C library list handling is similar to the process used in the BPCSMENU program. Initial content of the user portion of the library list is preserved, and then the library list is changed to support the SNAPI processing. Before execution of GWB560C is completed, the original version of the user portion of the library list is restored.

Data area INLIBL is used to build the SNAPI driver version of the user portion of the library list.

Program SYS111B is used to extract the ZPA record with the PKEY="WM4NWILB". The field DATA contains the following SNAPI parameter:

*Retain the WMAMSG script/log files flag (byte 11) – Use a database tool to set this flag.*

**Note:** In previous versions of the WMA, the first 10 positions of the above field stored a library with an INLIBL library list. This INLIBL library list was a requirement to process transactions from Infor SCM Warehouse Management BOSS to Infor ERP LX. The 12th position was also used for debugging purposes, but is also now obsolete.

Program SYS009C is used to retrieve the name of the library containing the WMAMSG script and log files. This library is added to the SNAPI driver library list. The Infor ERP LX files library and User Language library extracted from the SSASYS and SSASYS2 data areas are also added.

---

## Uploading Infor SCM Warehouse Management BOSS Transactions to Infor ERP LX

SNAPI Driver Program (GWB560C) calls the WMAMSG program with the following parameters:

- WMAMSGCFG – a file that contains configuration information to send requests to SNAPI
- GWBREI – the name of the WMAMSG script file (or: overrides were performed to add the new WWhhmmsxx member)
- GWBREM – the name of the WMAMSG log file (overrides were performed to add the new WWhhmmsxx member)

The process flow follows:

- 1 The GWBREI file contains inbound messages in the WWhhmmsxx member. The WMAMSG program reads the GWBREI and sends the request to SNAPI.
  - 2 SNAPI receives the request and posts the message to Infor ERP LX, via PUR550 (purchase orders), via DRP550 (resupply receipts), via INV500 (shop order material issues, and inventory adjustments and transfers), and via ORD700 (special charges).
  - 3 SNAPI sends a response to WMAMSG.
  - 4 WMAMSG writes the reply to the GWBREM file.
-

## Analyzing the WMAMSG Log File

The GWB570R program evaluates the results of the SNAPI process. It uses the script cross-reference file GWBREX and the log file GWBREM to determine whether all messages were posted to Infor ERP LX. If not all of the messages were posted, GWB570R returns an error flag to the GWB560C program.

This error flag or the ZPA Retain WMAMSG Script/Log Files flag set to 1 causes the content of the WWhhmmssxx members of the GWBREI, GWBREX and GWBREM files to be preserved in the GWBREISV, GWBREXSV and GWBREMSV files in the same library as the GWBREI file. This is typically the WMA files library. It is helpful to save these files during the test phase or if you have problems with the installation. Infor does not recommend that you save these files in production mode because they consume disk space.

If a message posts to Infor ERP LX successfully, the Infor SCM Warehouse Management BOSS Externally Processed Status is set to Y in the appropriate Infor SCM Warehouse Management BOSS Upload Files.

If the message does *not* post to Infor ERP LX successfully, the Infor SCM Warehouse Management BOSS Externally Processed Status is set to 9. This might occur, for example, if the message is in the WMAMSG cross reference file GWBREX but not in the WMAMSG log file GWBREM, or if the Infor ERP LX program detected an error in the transaction data. A record is also written to the interface error file GWBERR.

**Debugging Note:** The Screen Navigator API (SNAPI) Installation Guide has a section on debugging that is helpful during the test phase or if you have problems with the installation.

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## Restoring Original Library List Settings

Before the SNAPI Driver Program (GWB560C) is completed, script and log file overrides are deleted, member WWhhmmsxx is removed, and the original version of the library list is restored.

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## Notes