Infor Distribution SX.e Setup and Administration Guide for Total Warehouse Logistics

Release 11.21.9

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Contents

About this guide

This guide provides conceptual information for Distribution SX.e and instructions to perform these Total Warehouse Logistics (TWL) system tasks with the Distribution SX.e system:

- Setting up the TWL system
- Using the TWL system
- Synchronizing the data

Intended audience

This guide is intended for system administrators who must set up and maintain the TWL system.

Related documents

Infor product documentation is available from the Infor Support Portal. System administrators must be familiar with the TWL documentation suite. The suite of guides provides overview and detailed instruction information to use the TWL application for TWL tasks. This suite contains these guides:

- *Infor Distribution SX.e Setup and Administration Guide for Total Warehouse Logistics*
- *Infor Distribution SX.e Total Warehouse Logistics User Guide for Receiving and Putting Away*
- *Infor Distribution SX.e Total Warehouse Logistics User Guide for Managing Orders*
- *Infor Distribution SX.e Total Warehouse Logistics User Guide for Picking, Packing, Shipping, and Kitting*
- *Infor Distribution SX.e Total Warehouse Logistics User Guide for Handling, Counting, and Balancing*

System administrators must also have a working knowledge of the Distribution SX.e system and be familiar with the current version of these documents:

- *Infor Distribution SX.e User Guide*
- *Infor Distribution SX.e Integrated Barcode User Guide*

System administrators running Distribution SX.e on-premises should be familiar with these guides:

- *Infor Distribution SX.e Installation Guide for Linux*
- *Infor Distribution SX.e Installation Guide for Windows Server*
- *Infor Distribution SX.e Upgrade Guide for Linux*
- *Infor Distribution SX.e Upgrade Guide for Windows Server*
- *Infor Distribution SX.e Administration Guide*

CloudSuite Distribution

If you are using Total Warehouse Logistics in CloudSuite Distribution, you must understand the concepts behind Infor ION and BODs.

See the *Infor Operating Service Administration Guide* and the *Infor ION Desk User Guide-Cloud Edition*.

Distribution SX.e can be deployed as on-premises software, or as part of the CloudSuite Distribution suite of products. The on-premises Distribution SX.e is installed and maintained locally by your company. CloudSuite Distribution is installed and maintained by Infor in the cloud. CloudSuite Distribution is a multi-tenant solution available through a subscription-based (SaaS) delivery model from Amazon Web Services (AWS).

Release notes and product documentation are available on the CloudSuite Distribution page on docs.infor.com.

Caution: Unless otherwise stated, “Distribution SX.e” refers to both on-premises Distribution SX.e and CloudSuite Distribution.

Contacting Infor

If you have questions about Infor products, go to Infor Concierge at https://concierge.infor.com/ and create a support incident.

The latest documentation is available from docs.infor.com or from the Infor Support Portal. To access documentation on the Infor Support Portal, select **Search > Browse Documentation**. We recommend that you check this portal periodically for updated documentation.

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Chapter 1: Overview

Total Warehouse Logistics (TWL) is Infor's warehouse management solution for the Distribution SX.e application. Use the TWL module to direct the workflow of goods from its original source to the final destination. This workflow includes order processing, picking, packing, shipping, and delivery. TWL also provides access to inventory control through replenishment, receiving, putaways, counting, and balancing.

TWL Components

These integrated components create an interface between the modules and database, and enable you to share data and keep that data current:

- Distribution SX.e
- Warehouse Logistics (WL) module
- TWL Web module in Distribution SX.e
- TWL Radio Frequency (RF)
- End-of-day (EOD) process
- Database

  The database contains schema and data for all modules.

Distribution SX.e

The financial data, static records, and the proprietary information of your organization are controlled by the Distribution SX.e system. Transactions occur throughout the business day. Those transactions that affect your warehouse pass data to TWL for processing.

Warehouse Logistics module

The Warehouse Logistics (WL) module includes functions for inquiry, entry, reports, and administration. The WL module is used to communicate to other extensions other than the TWL module, which is why the WL module is separate from the TWL module.

A primary function in the module is **WL Transaction Inquiry**. This function shows all data communication files that are passed between the modules and the system database. You can use **WL Transaction Inquiry** to monitor, resubmit, or modify the status of some communications.

TWL

TWL is composed of the TWL Web module and TWL RF modules. These components control the warehousing tasks that directly affect inventory. Although timing differences inherently exist with record updates, correct use of the RF and TWL Web module ensures that all components are accurately updated.

TWL Web module

Warehouse managers use TWL Web module functions to schedule and direct tasks that are performed by the RF users. The information gathered by RF units updates the TWL Web module system immediately. Because every movement in the warehouse is recorded, several analysis and management reports are available and can be run from TWL Web module.

Access the TWL Web module from the **Menu**. Use this module to initially set up master records and system-wide parameters. Then, you can use this module to inquire on TWL records, generate TWL reports, and perform warehousing tasks. The TWL Web module functions are organized into these categories:

- **TWL Administration:** Administration-related processes, such as managing RF employees, reviewing communication with other TWL modules, or managing functional setup.
- **TWL Configuration**: Processes for managing the configuration of the warehouse, such as specific layout, locations, and the goods that are contained within them.
- **TWL Execution**: Processing for maintaining the integrity of the inventory in your warehouse.
- **TWL Inbound**: Processing specific storage and delivery of goods coming into a warehouse.
- **TWL Outbound**: Processing specific to goods going out of the warehouse.

TWL Radio Frequency (RF)

The TWL Web module works in tandem with one or more RF units. The RF data communication unit consists of a keypad, screen, and scanner. For certain tasks that are performed with the RF, the TWL Web module works in the background to provide several edit checks that verify transactions for accuracy. The TWL Web module also directs movements to reduce wasted traveling, searching, and misdirection.

See TWL Web RF Shortcut Keys on page 113 for a list of shortcut keys to expedite the time it takes to perform certain RF tasks.

If your company uses RF units for both TWL and Integrated Barcode in the cloud, an RF menu that allows users to select the **TWL** or **IBC** interface at sign-in is available. To enable the menu, you must create an incident with Infor Support. See KB article 2151537 for additional information.

End-of-day process

The EOD (end-of-day) process is a background utility that maintains the age of data stored in the TWL files. EOD calculates inventory class by velocity, schedules cycle counts, cleans up system log files,

clears any inventory discrepancies, and creates the product history files. Set up EOD to run on a daily basis.

Functional overview

Your managed warehouse logistic workflow and the Distribution SX.e data is shared between modules in one database. Product requests can be initiated from sales orders, warehouse transfers, or purchase orders. The communications to TWL can be viewed in **WL Transaction Inquiry**. The status of the communication indicates its processing level and whether communication errors require attention.

When data is sent to another module in the system, the transactions reside in **WL Transaction Inquiry**, with **`Active`** status, until a batch process picks up the transaction. The batch process updates the system with the information. The transaction status is changed to **`Inactive`**, so that the transaction is not processed again. The data communications pass through a series of tables during each stage of data flow.

Batch processing includes these functions:

- **WL Entry Batch Shipping Report**
- **WL Entry Batch Receiving Report**
- **WL Entry Batch Adjust Inventory Report**

These batch processes are necessary for opening and closing journals, timing the updates correctly, and controlling lock processes.

The direction in which the data communication travels between the TWL Web module and other modules depends on the type of transaction that starts. For example, printing an order starts a send communication, with a PCK process type, to release the information to TWL. You can view the order detail from the **WL Transaction Inquiry-Order Data** grid. View the line items and specific characteristics, such as status, process type, error messages and, if applicable, serial or lot and component.

Transactions, such as receipts, shipments, and stock adjustments that are synchronized by TWL. The information that is synchronized from TWL to the other modules is processed in the order in which the data is created.

Communication file structure

TWL and the system modules use a designated file structure to communicate data. This structure consists of these files:

- WLET file: The WLET driver file initiates the file communications between the two systems to send or receive information.
- WLEM file: This file contains static type of information, such as product information.
- WLEH file: If order data is transmitted from the system to TWL or from TWL to the system, the header information is contained in the WLEH file. The fields that show in **WL Transaction Inquiry** are dependent on the order type that relates to your inquiry.

- WLEL file: If line item records for shipping or receiving activities are transmitted from TWL to the system, the WLEL file connects the line items to the WLEH records. The WLEL file contains the assigned and unassigned information for serial and lot products and components. The fields that show in **WL Transaction Inquiry** are dependent on the order type that relates to your inquiry.

These files operate in the background, but you can view the information contained in the files with **WL Transaction Inquiry**. The **WL Transaction Inquiry** shows these files in a format in which you can obtain specific detail about a communication event. **WL Transaction Inquiry** initially shows the WLET records based on criteria that you enter. You can access different windows, pages, and tabs to obtain the necessary detail.

See Communication file structure descriptions on page 245.

Process types

The system communicates data to TWL through direct program-to-program execution. This enables secure transaction scoping and data integrity between the two systems. The transaction history file is used by TWL to keep all the transmitted data synchronized and tracks all the information transferred to and from TWL.

See Process type descriptions on page 250.

Communication exceptions

You must monitor **WL Transaction Inquiry** transactions daily and review exceptions or errors.

See Communication exception descriptions on page 253

Synchronization errors

Synchronization errors may occur. For example, if an order is fully packed in TWL, and the order is maintained in the system simultaneously with TWL synchronizing the PAK transaction. In this case, the order is rejected.

You can view rejected communication files in **TWL Administration-Interfaces-Resend**. View this function frequently to ensure all interface files are resent to the system for processing. When you resend the rejected file, the file shows in the system and can be processed through normal channels.

Transaction logs

Scripts are no longer used to activate the TWL module. The **WL Location** setting in **SA Administrator Options-Logistics-WL Location** is used to activate the TWL warehouse in **Product Warehouse**

Description Setup. Data communication between TWL and other modules is logged through **WL Transaction Inquiry**. The upload communication from TWL module requires three reports handling processing to facilitate locking, journal usage, and batches while other modules are updated within Distribution SX.e. These reports are the **WL Entry Batch Shipping Report**, the **WL Entry Batch Adjust Inventory Report**, and the **WL Entry Batch Receiving Report**

Transaction logs are created to trace issues in the system when data is transferred between TWL and other modules. The `twlrcv.log` is now a combination of what was previously `twlrcvprint.log` and `twlrcvprint.err log`. In on-premises Distribution SX.e, the `twlsend.log` and `twlrcv.log` files are located in the `/rd/tmp` directory off of the **SA All Company Information Setup** system directory. In CloudSuite Distribution, these logs are stored in the `/reports/%TENANT%/logs/`. To retrieve logs in the cloud, use SAPF to view, not email, a file name such as: `/reports/%TENANT%/logs/twlrcv.log`, and `/reports/%TENANT%/logs/twlsend.log`.

TWL user login and function security

TWL is part of standard Distribution SX.e. All TWL Web module users access TWL with their system operator credentials, and therefore, require a valid user ID, password, and company number.

To view the TWL Web module menus, operators must have the correct function security. Function security for TWL is set in **SA Operator Setup**. The function security can be granted for all TWL Web module functions, or limited to task-related functions. For example, for an operator that is receiving inventory into the warehouse, ensure that operator has access to the receiving functions. Or, if an operator is performing tasks primarily with the RF unit, access to the TWL Web module functions may not be required at all.

See Setting the TWL operator permissions on page 53.

For RF users, you must set up an additional employee ID and password in **TWL Administration-RF Employee**.

See TWL RF employees on page 27.

The TWL module, including Web and RF, uses the same password encryption as the system, matching the system in how passwords are stored, and user records are updated and validated.

Database connections

Each RF login has a unique database connection. You can view these connections by accessing the **TWL Administration-Database Connection**. Use the **TWL Display Database Connection** to view and clear user sessions. The labels in TWL database connections match comparable labels in **SA Connection Inquiry** in the system. Because the TWL Web module user is a system user, those logins are visible in **SA Connection Inquiry**.

Chapter 2: Setup checklist

Use this checklist to set up TWL with the system:

Completed	Task	Reference
❑	Review information about user login and access to TWL functions.	TWL user login and function security on page 16
❑	Set up initial records in TWL Web module.	TWL Web Setup on page 19
❑	Set Distribution SX.e **Warehouse Logistics** options.	Setting the TWL WL Options on page 48
❑	Set up the system **Product Warehouse Description Setup**.	Setting the TWL warehouse description on page 50
❑	Run **WL Initialize Warehouse Administration**.	Initializing the warehouse on page 51
❑	Set web operator permissions for users requiring access to manage warehouse functions.	Setting the TWL operator permissions on page 53
❑	Set up operator authorizations.	Setting the TWL authorization points on page 54
❑	Set up the system printing.	Setting the TWL printing options on page 54
❑	Set up the system backorder options.	Setting the TWL backorder options on page 56
❑	Set up product barcode cross-references.	Setting the TWL barcode options on page 56
❑	Optionally, set up expanded product numbers.	Setting the TWL expanded product number options on page 57
❑	Set up the purchase order defaults.	Setting the TWL purchase order defaults on page 57
❑	Set up shipping carriers.	Setting the TWL ship-via carriers on page 58

Completed	Task	Reference
❑	Set up product return reason codes.	Setting the TWL return adjust codes on page 58
❑	Set up TWL printers.	Setting the TWL printer groups on page 60 Setting the TWL printers on page 60
❑	Maintain your TWL location records.	Setting up locations on page 62
❑	Set up RF units.	Setting up the RF unit on page 86
❑	Set up end-of-day processing.	Setting up EOD processing on page 91
❑	Optionally, set up lots.	Setting up lots on page 96
❑	Optionally, set up VA work centers.	Setting up a TWL work center on page 100
❑	Optionally, set up TWL for receiving only.	Setting up TWL Receiving Only on page 102
❑	Optionally, set up label printing.	Integrating TWL with Enterprise Printing Platform on page 207
❑	Optionally, set up TWL to integrate to Proof of Delivery	Integrating TWL orders with Proof of Delivery on page 238

Chapter 3: TWL Web Setup

You must set up the TWL module from the TWL Web module. We recommend you set up the records in the sequence the procedures are presented.

About TWL Web module setup

Access the TWL Web module from the **Menu** in the Distribution SX.e web client.

To begin implementation of the TWL module, use TWL Web module to set up master records and system-wide parameters. In the Distribution SX.e web client **Menu**, the TWL Web module functions are organized into these categories:

- **TWL Administration**: Administration-related processes, such as managing RF employees, reviewing communication with other modules from TWL, or managing functional setup.
- **TWL Configuration**: Managing the configuration of the warehouse, such as the locations and goods that the location contains.
- **TWL Execution**: Processing for maintaining the integrity of the inventory in your warehouse.
- **TWL Inbound**: Processing specific storage and delivery of goods coming into a warehouse.
- **TWL Outbound**: Processing specific to goods going out of the warehouse.

The type of operator who uses the TWL Web module may perform these tasks:

- Manage the timing of warehouse functions, such as picking and cycle counts
- Monitor activity and orders
- Troubleshoot inventory issues

Most of the setup procedures are performed from the **TWL Administration** and **TWL Configuration** menus. You must perform a series of initial setups of master records in the TWL Web module. Then, you specify more detailed settings within these master records:

- Company
- Warehouse
- Shift department
- Employee
- Warehouse zones
- Locations
- Shipping dock
- Adjustment codes

- Return codes
- Printers
- Station
- System parameters

After implementation, operators can also use TWL Web module to perform these tasks:

- Inquire on TWL records
- Generate TWL reports
- Perform TWL warehousing tasks

TWL company records

You must set up TWL company information first because a valid company is required when you set up other TWL records. Similar to the **SA Company Setup** record in the system, use the **TWL Administration-Company Setup** to specify company-related settings for the TWL module. The company information enables various processing methods and workflows in the warehouses that are assigned to the company. The TWL company number must match a valid system company number.

Setting up a TWL company

You can initially create a company number and name, and then edit the Company master record, filling in details as you set up other records.

1. Select **TWL Administration > Company**.
2. Click **New**.
3. In **Company**, specify a new company number. The TWL company number must match a valid system company number.
4. Click **Save**.
5. Select the **`Active`** option for the system to process information for this company.
6. In **General**, specify this information:

   Name
   This field should reflect the legal name of the company being set up. The name should be specified in upper and lowercase letters, because the name is displayed on banners, reports, and documents.

   Address, City, State, Zip Code
   The company address.

   Country
   The country in which the company resides.

7. In **Company Parameters**, specify this information:

Put Away Type
Select one:

- **`Directed`**: Specifies that put away is guided by the system to maximize space utilization and initially defaults.
- **`Non-directed`**: Specifies that put away is at your discretion.

Packing Type
Select one:

- **`Pick-to-pack`**: Indicates that items are placed in a shipping container as they are picked. By default, the same ship to name and address for all items put into the carton are validated.
- **`Pick-to-tote`**: Indicates that items are to be placed in an intermediate container. When the order has been picked, the items are packed in a shipping container.

Pick Labels
Select one:

- **`Pre-Printed`**: Specifies that labels can be printed when orders are dropped. This selection is the default.
- **`On-Demand`**: Specifies that pickers are to print labels as they need them. We recommend you select **`On-Demand`** to ensure optimal performance.

Pallet ID
Select one:

- **`Pre-Printed`**: Indicates that the vendor has bar-coded each pallet, or that your receiving operators should attach a pre-printed bar code as inventory is received. We recommend that you select **`Pre-Printed`** labels to facilitate receiving.
- **`System-Assigned`**: Indicates that labels are printed on the receiving dock as the inventory is received.

8 Optionally, select **`Pick From Dock`**. Select this option to enable operators to fill orders as soon as goods are received.

9 Optionally, select **`Allow Over Picking if the Item Allows It`**. Select this option to enable operators to over pick an item.

10 Click **Save**.

TWL warehouse records

A warehouse is required when you set up TWL other records. You may have one or more TWL-controlled warehouses. You can set up unique processing flows for a specific company-warehouse combination.

A TWL warehouse record is similar to the system **Product Warehouse Description Setup** record. The TWL warehouse name must be identical to the **Product Warehouse Description Setup** record. Consider this factor as you set up both records.

If you are setting up TWL facility records before your system is going live, you can set up a **TWL Configuration-Warehouse** master record with minimal information. After your TWL warehouse is live,

release warehouse records from the system **WL Initialize Warehouse Administration** function to add the detail.

In **TWL Configuration-Warehouse-General**, set up basic warehouse information. Then, in the **Warehouse Parameters** section, select the appropriate parameters. These parameters, in conjunction with related system-wide parameter settings, affect processing flows in all the warehouses and companies defined within the system.

For example, two warehouse parameters determine whether the packing step is performed by pick-to-pack or by pick-to-tote.

With a pick-to-pack environment, you place the products you pick immediately into a shipping container or on a truck pallet. The packing process is eliminated because products are picked from the shelf and put directly into a shipping container. To use truck pallets, system-parameter 1068, Truck Pallets, must be set to **`Yes`**.

Packing-by-order and packing-by-customer are not relevant options on the RF if your warehouse is set up to be a pick-to-pack warehouse.

In a pick-to-pack or pick-to-tote warehouse, these picking system-parameters can be set to enable various picking scenarios: :

- Parameter 1054, Tote Validation
- Parameter 1060, Carton Validation

You can pick more than one order with the same destination to a pallet or tote. You can pack more than one order in a single carton if you perform a carton-to-carton transfer. You should not pack different carriers into the same carton.

Use the Picking system-parameter 1080, Truck Pallet Validation, to control the validation applied when you pick to a truck pallet with the RF Picking module. This parameter can prevent two different ship addresses and carriers from being picked onto the same truck pallet. These are the options for the parameter setting:

- No Validation
- Ship Address and Carrier
- Carrier and Service
- Order and Order Suffix
- Customer Code and Carrier

If you enable system-parameter 1099, Suggest Carton – Advanced, then the validation criteria defined in system-parameter 1060, Carton Validation, determines which carton is suggested. The last carton you used may be suggested, even if the carton was for a different order. Only cartons that you previously packed are suggested.

When the shipping container or truck pallet is full, the order can be shipped on a carrier managed by TWL. The ship verification is performed to update the order and synchronize the system.

With a pick-to-tote environment, you place picked products into an intermediate container, or tote, that is affixed to a cart or alternate location.

If your facility is configured for quick pack, then you can pack the entire contents of a tote into a carton. System-parameter 1051, Packing Option, determines the scanning order and packing configuration, and you have these options:

- **`Carton from Totes`**: This option is for packing one carton from several totes. Use this option if you use several totes to pick an order. The RF prompts you to scan the carton, and then the totes.
- **`Tote to Cartons`**: This option is for packing many cartons from one tote. Use this option if you pack one or more orders from a tote into several cartons. The RF prompts you to scan the tote, and then the cartons.
- **`Quick Scan`**: This option is for packing a significant quantity of goods into one carton. With this option, you can pack many cartons from one tote. The quantity is assumed to be one.

Setting up a TWL warehouse

You can create a warehouse name and address initially, and then edit the Warehouse master record, filling in details as you set up other records.

1. Log into the TWL company you created.
2. Select **TWL Configuration > Warehouse**.
3. Click **New**.
4. In **Company**, the company you are logged into autopopulates the field.
5. In **Warehouse**, specify a new four-character warehouse ID. You may want to include the acronym, TWL, in the ID.
6. Click **Save**.
7. In **General**, specify this information:

   Name
   Specify a descriptive name. The TWL warehouse can be a site, building, yard, or area within a warehouse. The name is used on shipping documents to identify the sending location.

   Address, City, State, Zip Code
   The mailing address of the warehouse.

   Country
   The country in which the warehouse resides.

   Region
   A method of categorizing your sales region. The region is also used for reporting purposes.

   Damaged Goods Zone
   Defines the zone where damaged inventory is placed. The zone must be set up in the **TWL Configuration-Warehouse Zone** master record.

   Receiving Zone
   Defines the zone where received inventory is placed. This zone can be overridden at the item level from the **TWL Configuration-Item** master record. The zone must be set up in the **TWL Configuration-Warehouse Zone** master record.

   Parcel Management Maintained By
   Specify whether shipping is maintained by the **`Host`**, which is a shipping interface, or by **`TWL`**.

Q/A Inspection
Select this option if you want everything received for this warehouse to be routed to inspection.

8 Select the **Active** option for the system to process information for this warehouse.

9 In the **Warehouse Parameters** section, specify this information, or as recommended by your Infor business consultant:

a In **Put Away Type**, specify **Directed**.

Directed put away is guided by the system to maximize space utilization and initially defaults. **Non-Directed** put away is at your discretion.

b In **Packing Type**, specify **Pick to Pack**.

Pick to Pack indicates items are placed in a shipping container as they are picked. By default, the same ShipTo name and address for all items put into the carton is validated.

Pick to Tote enables items to be placed in an intermediate container. When the order has been picked, the items are packed in a shipping container.

c In **Pick Labels**, specify **Pre-Printed**.

Pick Labels can be printed when orders are dropped. The default is **Pre-Printed**.

On-Demand enables pickers to print labels as they require them.

d In **Pallet ID**, specify **Pre-Printed**.

Pre-Printed labels indicates the vendor has bar-coded each pallet, or that your receiving operators should attach a pre-printed barcode as inventory is received. We recommend that you use Pre-Printed labels to facilitate receiving.

System Assigned enables labels to be printed on the receiving dock as the inventory is received.

e In **Labels**, select the label generator.

Select **EPP/IDM Integration** to generate barcode label output using Enterprise Printing Platform or Infor Document Management.

See Integrating TWL with Enterprise Printing Platform on page 207 and Integrating TWL with Infor Document Management on page 230.

Select **Standard Zebra Printing** to generate legacy barcode label output on Zebra printers.

f Clear the **Pick From Dock** option.

Pick From Dock enables you to fill orders as soon as goods are received.

g Clear the **Allow Over Picking if the Item Allows It** option.

Select this option only to enable over picking from the warehouse. You must also select the **Allow Over Shipping** option for an individual product in **TWL Configuration-Item-Miscellaneous-Outbound**. Be aware of the setting for counter sales in Picking system-parameter 7013, Picking Counter Sales Over Pick Quantity.

To allow any over picking at all in your warehouse, set the warehouse to allow over picking. Then, you can allow or disallow over picking by individual product. You can disable any over picking for all counter sales with the parameter 7013 setting, even if the product is set to allow.

10 Click **Save**.

TWL departments and shifts

An important part of warehouse management is assigning a shift and department to RF employees. A department is a functional group of employees that perform similar tasks. Within a warehouse, you might have a receiving department, a picking department, and a shipping department. At least one department must be set up, because a department is required for the RF employee master record.

A shift is a block of time, usually in 8-hour increments, an employee is scheduled to work.

If your warehouse assembles prebuilt kits, then you must create a department record for a work center. Specify these locations:

- Staging location as a transfer point for moving stock into the work center
- Stage-out location for finished kits going back into the warehouse
- Picking location for allocated kits to fill orders

When you create your work center department, a location with a prefix of DT, plus the number you assigned to the department, is created. For example, DT4.

After the department is defined, specify the work center department number on the **TWL Administration-RF Employee** master record so operators can access the RF **Work Center** menu. In **Product Warehouse Product Setup**, you must specify the **Kit Build Department** in the **WL Setup** view.

See Location and TWL item records on page 71.

By assigning departments and shifts, you can measure performance by printing productivity reports.

Setting up TWL departments

Departments are required for **TWL Administration-RF Employee** master record. Departments and shifts are used for reporting purposes.

1. Select **TWL Administration > Department**.
2. In the **Search** pane, specify a TWL warehouse and click **Search**.
3. Click **New**.
4. In **Company**, the company you are logged into autopopulates the field.
5. In **Warehouse**, the warehouse you specified autopopulates the field.
6. In **Department**, specify the new department number.
7. Click **Save**.
8. Select **`Active`** for the system to process information for this department.
9. In the **General** section, specify this information:

   Name
   Specify a descriptive name for this department.

   Department Type
   Select one of these types:

- **Regular**
- **Work Center**
- **Quality Assurance**
- **Returns**

Most of your departments, such as receiving and material handling, are considered regular departments. A work center department is reserved for kitting. Quality Assurance and Returns are assigned to departments that test items or prepare returns.

10 In **Extra Fields**, if you have selected **Work Center**, specify this information:

Pick Location
Specify a pick location for the work center department. Finished goods designated to fill specific orders are placed in this location. Picking and staging locations must be unique bin locations to correctly handle inventory transactions. You cannot specify the same bin location in more than one kit build department.

Staging In
Specify a staging location for incoming kitting. This field is accessible only if you are creating a new record with a work center type. After the database is updated, this field cannot be changed. Picking and staging bin locations must be unique to correctly handle inventory transactions. You cannot designate the same bin location for picking and staging locations in multiple kit build departments.

Staging Out
Specify a staging location for outgoing kitting. This field is accessible only if you are creating a new record with a work center type. After the database is updated, this field cannot be changed. Picking and staging bin locations must be unique to correctly handle inventory transactions. You cannot designate the same bin location for picking and staging locations in multiple kit build departments.

11 Click **Save**.

Setting up TWL shifts

Shifts are required for **TWL Administration-RF Employee** master record. Shifts and Departments are used for reporting purposes.

1 Select **TWL Administration > Shift**.
2 In the **Search** pane, specify a TWL warehouse and click **Search**.
3 Click **New**.
4 In **Company**, the company you are logged into autopopulates the field.
5 In **Warehouse**, the warehouse you specified autopopulates the field.
6 In **Shift**, specify the new shift number.
7 Click **Save**.
8 Select **Active** for the system to process information for this shift.
9 In the **General** section, specify this information:

Description
Specify a descriptive name for this shift.

Shift Start Time
Select a start time.

Shift End Time
Select an end time.

10 Click **Save**.

TWL RF employees

The **TWL Administration-RF Employee** master record defines the home company and warehouse for an employee. Use the RF Employee master record, and the associated **RF Security** section, to set parameters and security for each TWL RF operator. Typically, RF operators do not require access to TWL Web module functionality or the system.

After setting the security settings, an RF operator can access a different company and warehouse in the TWL system. Full security is not required for the operator to log into multiple warehouses. Security also provides that operator with access to all or select RF functions.

In the **General** section, you can set up basic employee information, including a password. Then, in the **RF Security** section, you can select the appropriate access to master files and functions.

All TWL personnel requiring access to TWL Web module functionality must have basic operator security set up in **SA Operator Setup**.

Setting up TWL RF employees

1 Select **TWL Administration > RF Employee**.
2 In the **Search** pane, specify a TWL warehouse and click **Search**.
3 Click **New**.
4 In **Company**, the company you are logged into autopopulates the field.
5 In **Warehouse**, the warehouse you specified autopopulates the field.
6 In **Employee ID**, specify the new employee ID number. A unique 8-character number must be assigned to an employee for a specified company-warehouse combination. An employee ID is required to log into the RF system.
7 In **Password**, specify that employee's password. You can also select the **`User Must Change Password at Next Login`** option.
8 Click **Save**.
9 Select **Active** for the system to process information for this employee.
10 In the **General** section, specify this information:

Name
The employee name is used on productivity, activity, and management reports.

Title
The title is used on productivity, activity, and management reports.

Department
The department that is assigned to an employee. A valid department is required.

Shift
The shift that is assigned to an employee. A valid shift is required.

Rush Check Warehouse Zones

Assign this employee to one, multiple, or all warehouse zones. You can select a zone from the check box group in the **Rush Check Warehouse Zones** field, or select the **All** option. The zone(s) available in the field's check box group must have been previously set up in the **TWL Configuration-Warehouse Zone** master record. The **All** option selects all zones set up in the Warehouse Zone master record.

The warehouse zone works in conjunction with system parameters 7003, Rush Order Notify, and 7012, Alt Whse Order Notify. Parameter 7003 controls the frequency with which a picker is notified that an emergency order must be picked. If you set the parameter to a non-zero value and assign a picker to a warehouse zone, then that picker is notified if an emergency order must be picked in the picker's assigned zone. Parameter 7012 controls the frequency with which a picker is notified that an emergency order needs to be picked from an alternate warehouse.

11 In the **RF Security** section, specify this information:

RF Admin
To grant authorization to access all listed functions, select the **RF Admin** option.

Maximum Concurrent RF Logins
Use this setting to enable up to four RF login sessions for a single user ID. The RF session number is displayed on the RF next to the **Main Menu** to indicate the current session. TWL transactions are recorded for each RF login for historical and performance monitoring.

Access to functions
If the **RF Admin** option is cleared, you must select individual functions to grant access to that function for this RF operator. Operators who do not have access to at least one function do not have access to these modules on the RF menu. Typically, all RF operators have access to the **Inventory Control** option. Be aware that this **Inventory Control** option enables the operator to perform item maintenance, such as creating a cross-reference, but also permits access to the inventory control records if an operator is short-picking a line item. Modify your settings so the operator's procedural tasks are performed in the appropriate function.

12 Click **Save**.

TWL warehouse zones

Use zones to divide your warehouse into functional areas. You can set up warehouse zones and counter bin locations before your site is live.

The putaway logic looks at the zone names sequentially, and determines if putaway is allowed. Then, the logic determines if an empty location exists to store the incoming receipt. Parameters alter this logic, depending on the options selected.

If the pre-live product information is released with **WL Administration Initialize Warehouse**, then the **TWL Configuration-Location** and **TWL Configuration-Warehouse Zone** master records are validated. You can attach the correct bin locations to the **TWL Configuration-Item** master record after the record has been released.

After TWL is live, the location record can be maintained on the TWL side. The locations listed here are synchronized to the system with the **WL Entry Batch Adjust Inventory Report**:

- Full case
- Split case
- Counter bin

See About TWL layout and location settings on page 62.

Setting up TWL warehouse zones

1. Select **TWL Configuration > Warehouse Zone**.
2. In the **Search** pane, specify a TWL warehouse and click **Search**.
3. Click **New**.
4. In **Company**, the company you are logged into autopopulates the field.
5. In **Warehouse**, the warehouse you specified autopopulates the field.
6. In **Warehouse Zone**, specify the new alphanumeric 2-character zone ID that is assigned to a logical group of aisles. Ensure you create a Receiving zone as one of the zones.
7. In **Description**, specify a descriptive name for this zone.
8. In **Type**, select one of these types:

   Regular
   Normal zones used for bulk, rack, shelving, and floor stock storage. Some zones require special equipment.

   Counter Sale
   If you handle Counter Sale (CS) orders, specify a zone. Only one counter zone is available per warehouse. A location named Counter is created by TWL when you set up the counter zone.

   Carousel

   Control formats for a system-controlled carousel system are generated by TWL when inventory is stored by TWL. The carousel system is used by TWL to augment these processes:

   - Picking

- Cycle counting
- Inventory control

Discrepancy
When a four-wall physical inventory is set, inventory adjustments can be moved from their current location to this discrepancy zone for verification later. Direct receipts and standard putaway enable you to put stock in this zone for items with an unavailable stock status. You can only set up one discrepancy zone. This zone should not be used for picking.

Damaged Goods
Inventory in this zone is not available for sale. This type of zone is not valid for putting away received goods. You can set up multiple damaged goods zones. Direct receipts and standard putaway enable you to put stock in this zone for items with an unavailable stock status.

Cross-Dock
When you receive on-demand goods to fill existing orders that have not been dropped, those goods can be routed to the cross-dock location for picking. The remaining quantity received is directed to a storage location according to the standard putaway logic.

9 Click **Save**.

10 In the **Zone Parameters** section, specify this information:

First Aisle
Specify the starting point of the zone parameters.

Last Aisle
Specify the ending point of the zone parameters. This point must be equal to or greater than the specified first aisle.

Pick Sequence
Specify the order in which this zone is picked. Warehouse zone pick sequences must be consecutively numbered and each zone must have a unique number.

Putaway Sequence
Specify the order in which this zone is selected for putting receipts away. This order is dependent upon system parameter 5757, PutAway Sort Order RF Prompt. This parameter controls the method that directed putaway tasks are sorted and displayed on the RF. The parameter is set to Disable or Zone Sequence.

Allow Putaway
Select this option to enable putaway routing to occur if your warehouse requires specific rules in routing putaway to zone.

Allow Picking

Select this option if your warehouse enables orders to be picked from this warehouse zone. If this warehouse zone is an overflow area, then the zone is not designed for picking and should not be enabled. Picking is not allowed for damaged inventory and discrepancy type zones.

Note: If this option is cleared, and the picker attempts to pick from this zone, an error message is displayed in the RF screen: `This location is in a warehouse zone that does not allow picking.`

11 Click **Save**.

TWL carrier management

You can ship TWL orders through TWL or through a shipping interface. Use **TWL Outbound-Shipping-Carrier Master** to manage the carrier. Consider these options when determining carrier management:

TWL

For the carrier, if you select **`TWL`** in the **Shipping Management-Parcel Management** section, any shipment that uses this carrier as a ship via is controlled by TWL. When you release an order or transfer to TWL, the order passes through **Order Drop Manager**. In **Order Drop Manager**, the order, along with other orders, transfers, and vendor returns, is organized to be picked from storage locations.

After the order is fully picked, packed, and shipped, each line item transaction is sent by TWL for line level processing. A SHP communication is created in **WL Transaction Inquiry**. This communication contains the full information needed to update the full order if the order is shipped, or backorder products that were not shipped.

With this **`TWL`** option, you cannot add freight charges or print invoices to attach to the package, because the package has already been shipped.

Orders and transfers that are to be shipped by a carrier that is managed by TWL must pass through ship verification with the **WL Entry Batch Shipping Report**. You can view pending SHP communication for the **WL Entry Batch Shipping Report** in **WL Transaction Inquiry**. In **Advanced Search**, set this criteria:

- **Status Type**= **`Active`**
- **Process Type**=**`Shipped Orders`**
- **Trans Type**=**`Received`**
- **Order Type**=**`OE`**

The **Order Data-Header** data is updated with this information: shipped date, freight addons, ship via, and the number of packages shipped. The order is ready for invoicing.

When the carrier is managed by TWL, you can change the carrier on an order or transfer before shipping the order. The data collection in process is monitored by .

Host

For the carrier, if you select **`Host`** in the WL Transaction Inquiry**Shipping Management-Parcel Management** section, you can ship orders, transfers, and shipping requests with a shipping interface or the system. The packing process creates a PAK synchronize to the system. A shipping interface performs the necessary updates for orders, transfers, and shipping requests. Journal updates must use **Transfer Shipping Feedback Entry** to update transfers to Stage 3 (Shipped).

When you release an order or transfer to TWL, the order or transfer passes through **Order Drop Manager**. In **Order Drop Manager**, the order, along with other orders, transfers, and vendor returns, is organized to be picked from storage locations. After the order is fully picked and packed, orders with a ship via that is managed by the host are synchronized for processing.

Orders and shipping requests that you manually ship in **Sales Shipping Feedback Entry** require the ship verification step to upgrade the orders for further processing in the system. The ship verification step is performed in TWL or the shipping interface.

WL Transaction Inquiry

Use **WL Transaction Inquiry** to monitor this information:

- Data collection in process
- WL TransactionData ready for the processing function
- Errors found during processing

Packing list printing

Use the Packing List settings in **TWL Outbound-Shipping-Carrier Master** to print a packing list when the order is picked in TWL. The transaction in **WL Transaction Inquiry** is designated as **`PRT`**, which is similar to a PAK transaction. The same shipping updates are made as are performed by **WL Entry Batch Shipping Report**. With the Packing List settings, you can print a packing list multiple times without affecting shipping interface records.

If you are printing packing lists in TWL, to show all lines on the list, set the **Download Zero Quantity Lines For Order Drop Manager To Drop** option to **`Yes`** in **SA Administrator Options-Logistics-WL Options**.

All lines are released to TWL from these three functions, and are displayed on the RF, regardless of the quantity shipped:

- **Sales Order Entry**
- **Transfer Entry**
- **Kit Production**

To prevent zero quantity lines from showing in TWL and on the RF, set the **Download Zero Quantity Lines For Order Drop Manager To Drop** option to **`No`**.

If all lines on an order contain a zero quantity shipped, a pick ticket is neither printed nor released to TWL. To print zero quantity lines on a pick ticket, select the **Print Pick Ticket Line Items When Quantity Shipped is 0** option in **SA Administrator Options-Documents-Sales Orders-Printing**.

If you set up the SCM Print, the standard Shipping Container Marking (SCM) label does not include logos or custom information.

Setting up TWL shipping carriers

If you select the **TWL** option in the **Shipping Management-Parcel Management** section, then the TWL carrier records must be identical to the values specified in **SA Table Code Value Setup-Ship Via**.

1. Select **TWL Outbound > Shipping > Carrier Master**.
2. In the **Search** pane, specify a TWL warehouse and click **Search**.
3. Click **New**.
4. In **Company**, the company you are logged into autopopulates the field.
5. In **Warehouse**, the warehouse you specified autopopulates the field.
6. In **Carrier**, specify the new 4-character alphanumeric carrier ID, as defined in **SA Table Code Value Setup-Ship Via**.
7. Click **Save**.
8. Select **Active** for the system to process information for this carrier.
9. In the **General** section, specify this information:

   Name
   The name of the carrier to show on inquiries and reports, as defined in **SA Table Code Value Setup-Ship Via**.

   Address, City, State, Zip
   This is the primary address for the carrier.

   Contact
   The representative you deal with.

   Phone
   The main phone number to contact the carrier [(xxx)xxx-xxxx/xxxx].

   Current Manifest Number
   The manifest number is similar to the pro number that has been assigned to a trailer from the carrier.

   Shipper ID
   This is the carrier recognition ID or your account number with the carrier.

   Shipping Verification
   Specify parameters for the verification process.

   Carrier Type

   Specify one of these options for the carrier type:

   - **External** to your business. You are prompted to specify the freight amount on the RF.
   - **Internal** if you own the carrier as part of your business. This skips freight entry.

   Weight

   Specify one of these options for the weight:

   - **Required**: Weight for each package in a shipment is required by TWL.
   - **Skipped**: Weights and rate shipments are ignored by TWL.

- **Verified**: TWL rates packages within shipments, but you can update the weight when the package is shipped. Use parameter 1027, Percent Weight Accuracy, to specify a percentage tolerance for weight checking during shipping. For example, you can specify a value of 10 (%), and an order weighs 100 pounds. You are warned if the value for weight is under 90 or over 110.

Require Carton Size
This option determines if the cubical dimension of each package in a shipment is required for downstream processes. If you select this option, then you are prompted by TWL for the length, height, and depth for each package in a shipment. If this option is not selected, then the carton size requirement is ignored by TWL.

Require Trailer ID
Select this option to ensure the **Trailer ID** field is accessible in the **Carrier Arrival/Departure** screen of the RF unit.

10 In the **Additional** section, specify this information:

Shipping Management-Parcel Management

Select a system to assign this carrier to:

- **TWL**: Shipments for this carrier are handled in TWL
- **Host**: The shipping interface handles the shipments for this carrier

Load Orders-Load Orders
Select this option to assign orders at the time they are loaded on this truck. If you select this option, then you can modify orders before they are shipped. After you approve the loaded orders, you can ship the orders to update the system. If this option is not selected, then orders are upgraded to shipped stage when you load them on this truck. The system is updated when the **WL Entry Batch Shipping Report** is generated.

Order Classes

Select one of these order classes:

- **Counter Sales**
- **Return to Vendor**
- **Value Add**
- **Warehouse Transfer**
- **Build-to-Stock Kit**
- **Sales Order**

SX.e Packing List

Print
This option enables you to automatically print a packing list for orders that specify this carrier when the order is picked in TWL. The **Print** option creates a PRT transaction in **WL Transaction Inquiry** so a packing list can be printed without affecting a shipping interface.

Printer
This field is for specifying the packing list printer when the **Print** option is selected.

SCM Print

For Shipping Container Marking (SCM), when selected, this option works with system parameter 7005, SCM Label Printing. Parameter 7005 provides you with these options:

- Printing SCM labels after you pick an item
- Printing SCM labels in a batch after you designate the picker
- Not printing SCM labels

Capture Tracking ID
When selected, a Tracking ID is required. If the Shipper ID field on the Carrier Master record contains a value, the Tracking ID must begin with the Shipper ID.

SCM Printer
Select the printer ID that the SCM labels are printed to. The **SCM Print** option must be selected and system parameter 7005 must be set to automatically print SCM labels.

11 Click **Save**.

TWL receiving docks

Docks are used by TWL to control and track product flow. Receiving docks are set up with the **TWL Configuration-Location** master record. Receiving docks should not be confused with Shipping docks, which are set up with the **TWL Outbound-Shipping-Dock Master** record.

The DOCK1 location is created automatically by the system when you set up the first warehouse zone record. Configure DOCK1 first, and then create more receiving docks.

You can configure DOCK1 to be a Stage type dock, or a Pallet type dock. You can define these dimensions:

- Height
- Weight
- Cube

If you have multiple receiving docks, you can name them various ways; for example, Dock2, Dock3, DockA, DockB, DockS, DockM, DockL.

TWL staging locations

A staging location is a location in your warehouse that contains several different items and stores them temporarily pending shipment, or to fill back orders. For example, a staging location can be a section of the warehouse floor for product that is too big for a shelf [air conditioners]. You can pick from a staging location, but you cannot receive to that location. You must receive product to a dock and then move the product to the staging location.

Setting up TWL receiving dock and staging locations

Set up your basic receiving locations. Because a receiving dock is a location that may contain inventory, the dock is created as a Location master record. Configure DOCK1 first, and then create more receiving docks.

1. Select **TWL Configuration > Location**.
2. In the **Search** pane, specify a TWL warehouse and click **Search**.
3. Click **New**.
4. In **Company**, the company you are logged into autopopulates the field.
5. In **Warehouse**, the warehouse you specified autopopulates the field.
6. In **Warehouse Zone**, specify a zone.
7. In **Location**, specify a location. For example, specify **`AA1`**.
8. Click **Save**.
9. In the **General Information** section, in **Bin Hits**, do not edit unless you must reset the count to zero. This field is incremented each time an item is picked from this location and is used for stratifying inventory according to bin activity.
10. Select **`Active`** for the system to process information for this location.
11. Optionally, select **`Physical`**, to have this location be scheduled for a physical count.
12. Optionally, select **`Inbound`**, to have this location flagged as a staging location for incoming pallets off a truck or dock.
13. In **Aisle**, specify the aisle that contains the location. This field is validated against the **TWL Configuration-Warehouse Zone** master record.
14. In **Pick Sequence**, specify a numeric value that represents the order in which this location is picked within the zone.

    The pick sequence can be changed from the RF with the **Inventory Control-Item Maintenance-Loc. Update** menu.
15. In **Last Count**, the last date this location was counted is displayed. This field and the **Class** setting are used to assign daily counts for all inventory in this location that must be counted. When end-of-day (EOD) processing runs the ABC classification against locations, a cycle count is scheduled for the next day, if necessary. If no inventory exists, the counter must verify the location is empty.
16. Optionally, in **Put Away Group**, specify a group. This field is a user-defined name. The group can be used to combine groups of similar items in the warehouse based on how you set up the putaway group.
17. In the **Location Attributes** section, specify this information:

    Location Type

    Select from these options:

    - **`Bulk`**
    - **`Carousel`**
    - **`Flow Rack`**
    - **`Pallet`**
    - **`Shelf`**

- **`Stage`**

The type is validated against the **TWL Configuration-Warehouse Zone** master record. If inconsistencies are found, you receive a message.

Height, Width, Depth, Cube
The height, width, and depth of the location, expressed in inches. The cube is calculated from the height, width, and depth.

Class

Do not edit. Use classifications to direct cycle counting where A products are counted more often than B products, and B products are counted more than C products. The classification process converts items that did not qualify for any other class [A, B, or C] to class D. The D class includes these products:

- Dead stock
- Nonstocks
- Items with a blank class
- Labor products

The class setting is updated when locations are stratified by end-of-day (EOD) processing and used when putaway locations are assigned. An attempt to store items in locations of the same class to organize stock within the facility is made by TWL. If a location with a matching class cannot be found, the next logical class is selected.

Maximum Weight
The maximum weight of material allowed to be placed within the alternate location.

Pallet Footprint
The total number of floor pallet spaces this location occupies.

Stack Height

Use this field to recommend putaway locations when cubic volume is calculated based on system parameter 5753, Non-Primary Space Check, or parameter 5754, Primary Space Check. If you have multiple quantities of an item with a defined staking height, this formula is used by TWL to limit the number of pallets in a location:

```
[the minimum value of the item or location height] x [the Pallet Foot Print]
```

For example, suppose you have an item that takes up 1 cubic foot of storage space. A location is 10 feet high, but only 8 items can be stacked without damaging the item. You would specify 8 in the field as the stacking height. If the location is a primary location and top-off replenishment is performed, then the top-off quantity is limited by the stacking height.

Maximum Pallets
The maximum number of pallets to be used in this alternate location.

18 In **Primary Pick**, select this option if this location is a primary pick location.

19 Click **Save**.

20 Repeat steps as needed to create other docks and staging locations.

TWL shipping docks

Shipping docks are set up with the **TWL Configuration-Shipping-Dock Master** record. Shipping docks should not be confused with Receiving docks, which are set up with the **TWL Configuration-Location** master record.

Shipping docks are used by TWL to control and track the outbound product flow.

During actual shipping, the **Current** fields are populated by the RF operator in **Main Menu-Shipping-Carrier Arr./Dep**. The RF operator scans or specifies the dock ID. After a dock ID has been specified, the default values that you set up on this Dock master record are displayed. If the current values differ from the default, then the RF operator can specify the current.

Setting up TWL shipping docks

1. Select **TWL Outbound > Shipping > Dock Master**.
2. In the **Search** pane, specify a TWL warehouse and click **Search**.
3. Click **New**.
4. In **Company**, the company you are logged into autopopulates the field.
5. In **Warehouse**, the warehouse you specified autopopulates the field.
6. In **Dock**, specify the new 6-character alphanumeric dock ID. You can begin the ID with D and use a sequential format, such as D1, D2, or use a carrier designator, such as UPSgrd. Use an identifying ID because docks are required by carrier trailers.
7. Click **Save**.
8. Select **`Active`** for the system to process information for this carrier.
9. In the **General** section, specify this information:

   Description
   Specify a descriptive name for this shipping dock.

   Default Carrier
   Select a default carrier for this dock. Carriers are setup in **TWL Outbound-Shipping-Carrier Master**.

   Default Route
   Specify a default route for this dock.

   Caution: Do not specify values for the **Current** fields and the **Stage** field. Current fields are populated by the RF operator in **Main Menu-Shipping-Carrier Arr./Dep**. The RF operator scans or specifies the dock ID. After a dock ID has been entered, the defaults set up on this **TWL Configuration-Shipping-Dock Master** record are displayed. If the current values differ from the default, then the RF operator can enter the current.

10. Click **Save**.

TWL return-adjust and reason unavailable codes

To facilitate return merchandise (RM) entry, especially for vendor return, and to ensure that the correct unavailable reason is released with the order, set up Return-Adjust Reason codes. These codes must match TWL's **Return Reason Codes** and **Adjustment Codes**.

Because inventory is controlled by TWL, the codes that are used to manage inventory are controlled by TWL. Specific reason codes are used by TWL to determine how to handle stock that is unavailable for sale. These reasons are hard-coded in TWL. Therefore, to synchronize TWL with the system, you must set up these codes:

- **SA Table Code Value Setup-Reason Unavailable** that match TWL's Adjustment Codes
- **SA Table Code Value Setup-Return Adjust Reason** that match TWL's Return Reason Codes.

This table shows information specific to each code:

Code	Term	Description
I	Inventory Hold	Damage occurred within the warehouse
L	Liquidation	Stock with salvage value
O	Overage	Received quantity greater than ordered
Q	Quality Assurance	Inspection being performed
R	Returns Hold	Inventory returned by the customer
S	Scrap	Goods scheduled to be scrapped
T	Transport Damage	Damage occurred in transit
W	Work-In-Process	Kits that are scheduled for assembly
Blank	Available	Inventory available for sale

If you used any of these code characters previously for any unavailable reason codes other than for TWL, you must redefine them so the codes match.

When appropriate, run **WL Administration Initialize Warehouse** to release these codes to TWL. Select the **`Create WL Table Setup`** option to release the **SA Table Code Value Setup** Reason Unavailable and Return Adjust Reasons to TWL.

You can set up only the codes relevant to your business, or you can set up all of these codes. You should discuss this setup with your Infor business consultant before proceeding.

Note: During receiving, the status for a receipt into a zone I or T is automatically set to I (Inventory Hold) or T (Transport Damage). You can control this default with the parameter 6265, Hold I and T Zones. Retain the default, **`Yes`**, to automatically set the status to match Zones "I" and "T". Select **`No`** to not automatically set the status; allowing the operator to specify the status.

If a code is deleted from **SA Table Code Value Setup**, you must manually delete that code from TWL.

Caution: After you implement your TWL system, making changes to these codes can adversely affect your operation and conflict with system performance. You should discuss any potential changes with your Infor business consultant before proceeding.

Setting up TWL return-adjust and reason unavailable codes

Use these functions to verify that the specific codes have been released correctly from **WL Administration Initialize Warehouse**.

1. Select **TWL Configuration > Return Reason Code**.
2. In the **Search** pane, specify a TWL warehouse and click **Search**.
3. Use the **Search** pane to specify criteria to search for an existing code.
4. In the grid, select a code.
5. Click the drill down icon to review the values.
6. Select **TWL Configuration > Adjustment Code**.
7. In **Company**, specify the TWL company number.
8. In **Warehouse**, specify the TWL warehouse ID.
9. Use the **Search** pane to specify criteria to search for an existing code.
10. In the grid, select a code and click the drill down icon to review the values.

TWL printers

Use this function to set up label printing only; otherwise, set up and configure all other TWL printers in **SA Printer Setup**.

See Setting the TWL printers on page 60.

Setting up TWL printers

1. Select **TWL Administration > Printer**.
2. Specify a TWL warehouse in the **Search** pane.
3. Click **New**.
4. Specify a printer ID in the **Printer** field. You can specify up to 15 alphanumeric characters.
5. Click **Save**.
6. Select **`Active`** for the system to process information for this printer.
7. Specify this information:

   Queue
   Specify the device name; the name is linked to UNIX as the device. This name is the printer queue name or command line on the UNIX box where your database directs information to a specific file or output device. The specified value corresponds to the **Device** or **Command** field in **SA Printer Setup**.
   You cannot use a command reference if you are printing Enterprise Printing Platform labels. Instead, reference the Enterprise Printing Platform printer name.

Type
Select **`Label Printer`**.

Site
Specify a site that is set up in Enterprise Printing Platform. When a ULD format file is created for a label, the printer is set as **`site#printer`**, instead of **`printer`**. You can specify **`defaultSite`**, which is a standard site in Enterprise Printing Platform.
If you do not use Enterprise Printing Platform, leave this field blank.

Label Printer Model
Select one of these values to identify the label generator for the printer:

- **`IDM Label`**: Generates custom and standard labels using Infor Document Management.
- **`Zebra`**: Generates custom and standard labels using Enterprise Printing Platform. Also generates legacy labels.

8 Click **Save**.

TWL stations

A station record is required to log into the TWL RF system. You must set up a **TWL Administration-Station** master record in TWL. You must also set up a similar key on each RF device, so that the key can be validated by TWL. Authentic and foreign RF devices attempting to access the system can be discerned by TWL. When a valid, recognized terminal sends a login code, the RF server then prompts TWL to determine if a valid Station master record is set up. If the Station master record is available, then the login window is displayed on the RF. After a login is established, a second record with your operator ID and time is sent to the Station master record.

Multiple printers and printer types can be supported on a network simultaneously. Each station type can have specific printers and label printers defined to direct the data to the correct printer. UNIX print queue names are required when printing is necessary. Each queue is set up on the network in advance and the printer type is redefined in the setup. If there is only one printer used by an RF device, then that printer can be specified on the Station master record.

To determine when a printer or RF device was last used, use the Station master record. The Station master record shows the last valid user and when the user was logged into TWL. For example, if an RF device has been lost or damaged, then you can determine the login ID by viewing the Station master record.

Setting up TWL stations

1 Select **TWL Administration > Station**.
2 In the **Search** pane, specify a TWL warehouse and click **Search**.
3 Click **New**.

4 In **Company**, the company you are logged into autopopulates the field.

5 In **Warehouse**, the warehouse you specified autopopulates the field.

6 In **Station**, specify the new 6-character alphanumeric station ID.

7 In **Type**, select **`RF`** or **`Terminal`**.

8 Click **Save**.

9 Select **`Active`** for the system to process information for this station.

10 In the **Printer Setup** section, specify this information:

Label Printer Queue
Select the name of the holding buffer to the barcode printer.

Label Printer Type
Select a printer type. The value that is selected is used to associate a barcode label printing device [manufacturer] with the specific station that is being defined. The printer must be a valid printer defined in the UNIX network or all print requests from the station are routed to a system disk. All radio device stations must be routed to a barcode printer that is loaded with label and ribbon stock.

Report Printer Queue
Select the name of the holding buffer to the report printer. When this queue is set up, this value is the default setting that is specific to the terminal or radio that is assigned.

Report Printer Type
Select a printer type. The value that is selected is used to associate a line printer device, for reports, to the specific station being defined. The printer must be a valid printer defined in the UNIX network, or all print requests from the station are routed to a system disk.

11 In the **Activity Log** section, this information is displayed if available:

Last Log In
Shows the last time and date the station was logged into the TWL application.

Last Log Out
Shows the last time and date the station was logged out of the TWL application.

Last Activation
Shows the last time and date the station was activated by the radio frequency network.

Last Employee
Shows the last or current employee number logged on the station.

PID of Last Login
Shows the current or latest RF process identification number of the station. This is assigned by the RF.

12 Click **Save**.

TWL system parameters

In **TWL Administration-System Parameter**, you can set system parameters to ensure system performance is according to your operational standards. These parameter settings control the entire TWL system, and are similar to the administrator options in the system.

System parameters are used by TWL based on task type; for example, picking, receiving, or put away.

Each system parameter has a default setting. Accept the default, or change the value.

Parameters have a level of Global or Warehouse. The TWL application comes with a default set of parameters, which are used by the system for validations if company- or warehouse-specific parameters are not found. The level is displayed for information only. The Global level is displayed if you have not specified any company- or warehouse-specific parameters.

A system parameter can be set to be **`User Changeable`**, meaning the user can change the setting. Before you enable this setting, you should discuss the ramifications of each system-wide parameter with your Infor business consultant. Use extreme caution when setting your system-wide parameters.

Although most of these parameters can be changed, we recommend they not be changed after you implement your TWL system. Changes that are made to parameter settings can adversely affect your operation and conflict with system performance. Guidelines are provided for each parameter to limit the possibility of adversely affecting your system. We recommend you discuss any potential changes with your Infor business consultant before proceeding.

For warehouse-level system parameters, only click the **Delete Warehouse Specific Parameter** button to delete the warehouse specific setting and enable the default setting that comes with the product.

A list of parameters and their descriptions is available in the appendix.

See Parameters on page 116.

Setting up TWL system parameters

We recommend you discuss any potential changes to the default settings with your Infor business consultant before proceeding.

1. Select **TWL Administration > System Parameter**.
2. In the **Search** pane, specify a TWL warehouse and click **Search**.
   You can also specify additional criteria, such as **Parameter Type**, to filter results.
3. In the grid, select a parameter and click the drill down icon.
4. Click **Edit** to access the options.
5. Specify changes.
6. Click **Save**.

A list of parameters and their descriptions is available in the appendix.

See Parameters on page 116.

TWL user-specific configuration

As each user completes tasks in TWL, such as receiving product or putting away stock, they use their RF device to step through each task. Questions are displayed to the screen that the user must answer before proceeding to the next step. You can view and modify these questions at the company (default), warehouse, and user level.

When you open the **User Specific Configuration** page, these three levels of records are displayed:

- **Defaults**

  This level contains a set of all questions presented at predefined intervals during various tasks or during various stages in function's process. Default questions cannot be edited. Select a default question and click **Copy to Warehouse** to create a copy. Access the **Company-Warehouse** version to change it.

- **Company-Warehouse Specific**

  This level filters the questions to only those that are company- and warehouse-specific. You create this level to modify the questions to be more specific to your company's process than is provided in the default version.

- **Company-Warehouse-User Specific**

  This level of user-specific questions is created automatically the first time a user encounters the question on their RF device. Use this level to set specific defaults or change the wording for a single user without impacting what other users see.

The questions are grouped by common tasks, which are listed under the Module column heading. This list shows those common tasks:

- General
- Inventory
- Maintenance
- Material Handling
- Packing
- Picking
- Production
- QA
- Receiving
- Shipping
- Sortation
- Staging

These fields are displayed in the **Search** pane and in the grid headings:

- The **System Name** is **`TWLRF`**, because the questions are displayed on the RF unit. Each question has an ID that is hard-coded. Use this value to troubleshoot any questions that were modified.
- The **Employee #** value changes based on the **Record Level** that is selected. The actual employee login number is displayed when the **`Company-Warehouse-User`** record level is selected. Otherwise, the field value specifies either **`Default`** or **`Company-Warehouse`**, based on the level selected.
- The **Date/Time** is displayed in the grid and shows the date the user-specific record was created.
- The **Process** is displayed in the grid and shows the processing routine that last updated the record.

- The **Type** is the language version of the application purchased.
- The **Value** field in the **Search** pane can be used to find questions that contain the keyword you specify in the value field. For example, specify **`Pallet`**. All questions related to pallet are displayed.

Modifying TWL user-specific configuration

Use these instructions to modify questions by performing these various tasks:

- Assign responses to questions at the company or warehouse level with employee-level defaults
- Change the wording of questions
- Create automatic responses to questions to eliminate user intervention and expedite RF tasks

If you attempt to copy any defaults that already exist as a Company-Warehouse record, the copied default is ignored by the system. This action is to avoid duplicates being created. An alert is displayed: `TWL: One or More Default Records Not Copied (7581).`

See Copying a configuration record on page 45.

See Modifying a configuration record on page 45.

See Deleting a configuration record on page 46.

Copying a configuration record

Use these instructions to copy one or more default question records to the Company-Warehouse level. You can then modify each to be more specific to your company or warehouse.

1. Select **TWL Administration > User Specific Configuration**.
2. In the **Search** pane, specify a TWL warehouse.
3. In **Record Level**, select **`Defaults`**.
4. To limit the records, specify additional criteria and click **Search**.
5. In the grid, select the records to copy to a Company-Warehouse configuration.

   To copy all records in the grid, click the **`Select All`** check box in the grid heading.
6. In the actions toolbar, select **Copy To Warehouse**.

After you copy the default records, you can view them from the **Search** pane by selecting **`Company-Warehouse`** from **Record Level**.

Modifying a configuration record

1. Select **TWL Administration > User Specific Configuration**.
2. In the **Search** pane, specify a TWL warehouse.
3. In **Record Level**, select **`Company-Warehouse`**.
4. To limit the records, specify additional criteria and click **Search**.

5 In the grid, select the record to modify, and click **Edit**.

A record cannot be both **Automatically Answer With The Default** and **Create Employee Specific Version**. Select only one.

a Select **Automatically Answer With The Default**. By selecting **Automatically Answer With The Default**, if the related condition occurs, the question is not displayed. The RF automatically selects the default answer, and processing continues without operator input. The operator is not required to specify an answer.

Select or clear **Default Answer Is 'Yes'**. If you select **Default Answer Is 'Yes'**, when the question is displayed in the RF, the default answer is **Yes**. If you clear this option, when the question is displayed, the default answer is **No**.

In **Value**, edit the wording. You can modify the value or wording of a question to, for example, use your company taxonomy or make the question more understandable. The question is displayed on the RF with your changes. Your changing the wording of a question does not change the functionality of the application.

b Select **Create Employee Specific Version On Next Encounter**. User-level defaults are created the first time a user encounters the question on the RF and changes the answer to coincide with the default configuration. The operator must specify an answer. If you select **Create Employee Specific Version On Next Encounter**, only the Default option and **Value** field can be edited.

Select or clear **Default Answer Is 'Yes'**. If you select **Default Answer Is 'Yes'**, when the question is displayed in the RF, the default answer is **Yes**. If you clear this option, when the question is displayed, the default answer is **No**.

In **Value**, edit the wording.

6 Click **Save**.

If you set the **Record Level** to **Company-Warehouse-User** records, only the **Default** and **Value** fields can be edited.

Deleting a configuration record

In the grid, select the record to delete, and click **Delete**. The record is removed and cannot be retrieved.

Chapter 4: Setting up Distribution SX.e

The Distribution SX.e system must be set up to accommodate TWL. Some setup in these functions either enable TWL functions or influence how TWL operates:

- Administrator Options
- System Administrator
- Warehouse Logistics

You must make decisions about the settings noted in these instructions.

TWL WL Location overview

Each TWL warehouse must be associated with a location name. The location name identifies the connection that links a warehouse to the TWL system. Therefore, you must associate the location record with the **Product Warehouse Description Setup** record of the TWL warehouse.

See About TWL warehouse description on page 50.

Scripts are no longer used in the TWL module. The **WL Location** in **SA Administration-Administrator Options-Logistics-WL Location** is used to activate the TWL warehouse in **Product Warehouse Description Setup**.

Setting the TWL WL Location

1. Select **System Administrator > Administration > Administrator Options > Logistics > WL Location**.
2. In **WL Location**, specify **`TWL`**.
3. In **Description**, specify **`TWL`**.
4. Click **Save**.

Setting the TWL WL Options

Use these options to define settings for transactions between the system and TWL. Discuss each option with your Infor business consultant before you make selections to ensure you maximize your TWL system. After settings are established, changing the selections with pending open orders in the system may cause undesirable and irreversible situations that could disrupt your system.

1 Select **System Administrator > Administration > Administrator Options > Logistics > WL Options**.

2 In the **TWL Specific Settings - Interface / Defaults / Notes** section, specify this information:

Default GL Operator

The value you specify in this option is the default value for the **Pick Initials** field in **Sales Shipping Feedback Entry**. This value is used if journals must be opened.

Download Zero Quantity Lines for Order Manager to Drop

Select this option to print packing lists from TWL and to see all lines on an order. All lines are released to TWL, including zero quantity lines.

Clear this option if you do not require that zero quantity lines released to TWL. If cleared, the zero quantity shipped lines are not sent to TWL, and they are not displayed on RF screens.

See Setting the TWL printing options on page 54.

New Part Default Zone

The code you specify for this setting is displayed on new product records that are created in these functions:

- **PD Administrator Automatic Pricing Report**
- **Product Adjust Non-Stock/Direct Order Entry**
- **Product Warehouse Product Setup**
- **Sales Order Entry**

You can use the **WL New Products Report** to find the product records that contain the new product default zone. After the new parts are identified, you can determine whether to create primary locations and assign a new zone before receiving the item.

Send Customer Notes with the Order

Select this option to send customer notes from the **Customer Setup** record to TWL so the notes are displayed in the picking or packing process. During the process of releasing the order to TWL, the order notes and line comments are automatically sent to TWL.

If you select this option, the **Customer Setup** notes are added to the order notes. **Customer Setup** notes are displayed first, and then the order notes are displayed. Only 3 ½ lines of notes are displayed on the RF.

Send ICSP Product Notes with the Picking Lines

Select this option to release the printable notes from the **Product Setup** record, including order line comments, to TWL when you print the order or transfer.

Send ICSP Product Notes with the Receipt Lines

Select this option to release product notes to TWL when you release a purchase order. Use the **Notes** context application to view notes.

3 In the **TWL Specific Settings - Shipping** section, specify this information:

Use 3rd Line of Address in TWL Interface

Select this option to include the third address line in the shipping and receiving address. The third address line supports international addresses.

Clear this option to not use the third address line, or if you use a shipping interface that cannot accommodate a third address line.

If you use a shipping interface, ensure that the shipping interface external software has been set up to accommodate the third address line during installation.

4 In the **WL Settings - Returns and Orders on Hold** section, specify this information:

Approve Type for Customer Returns Placed on Hold

Specify a hold code for return orders automatically placed on hold. You can release the return in **Sales Credit Release Inquiry** after the vendor gives you credit, and then invoice the order so the customer receives credit.

Approve Type for Zero Shipped Orders Placed on Hold

Specify the default hold code for zero shipped orders. The default value for this field is **z**, but you can change it. If you clear the field, **z** is assigned as the default hold code.

When an order has zero shipped quantities, the order is automatically placed on hold before transferring the order to TWL. You can locate the problem quantity and fix the problem. You can then approve the order and reprint the order with the original products, quantities, and ties. You can then drop, pick, and pack the order in TWL.

Hold PO/RMs for Manual Release

After a vendor return (PO RM) has been packed or shipped in TWL, depending on the host or TWL shipping method, the return is synchronized with the system.

Select this option to enable PO RMs in vendor return status to be held in **WL Transaction Inquiry**. Hold the PO RM provides time for the customer return to be received, the customer order to be invoiced, and the vendor return to be processed against the unavailable stock. After you release the return by changing the **WL Transaction Inquiry** status to activate, the **WL Entry Batch Receiving Report** processes the transaction.

Clear this option to enable PO RMs to be automatically processed through **WL Transaction Inquiry** and the **WL Entry Batch Receiving Report**.

Type of Returns to Place on Hold

Use this option to indicate the type of customer returns to place on hold.

Select **All** to enable all Return Merchandise (RM) orders and sales orders with return lines to be placed on hold.

Select **Vendor** to enable the customer returns with a vendor return type to be placed on hold.

If you select All or Vendor, you must also specify the default hold code in the **Approve Type for Customer Returns Placed on Hold** field.

5 In the **WL Settings - Processing** section, specify this information:

Purge WL Transaction Inquiry When They Become Inactive

Select this option to immediately purge **WL Transaction Entry** records and all associated records as soon as they become inactive.

You can also use the **WL Delete Transmissions Report** to delete inactive transactions.

Note: If you do not select this option, inactive and message transactions are automatically purged from **WL Transaction Inquiry** when the Distribution SX.e application is updated to a new version. A conversion program is initiated by the Infor Cloud Operations team each time an updated version of Distribution SX.e is applied to your production tenant. This conversion program purges all inactive transactions that are 180 days and older. Message transactions that are 90 days and older are also removed. This is to prevent the database from filling up with processed records and impacting system performance.

WL Inventory-In SA Table Code Value Setup Value for Final External

Optionally, if you use the Value Add module, specify **`ii pro`**, or similar, section name. This field is required to create new Inventory In (II) sections from TWL. The Inventory In (II) section is for receiving inventory that was added to the external fabrication process.

WL Inventory-In SA Table Code Value Setup Value for Final Internal

Optionally, if you are using the Value Add module, specify **`ii pro`**, or similar, section name. This field is required to create new Inventory In (II) sections from TWL. The Inventory In (II) section is for receiving inventory that was added to the internal fabrication process.

6 Click **Save**.

About TWL warehouse description

Each TWL warehouse must be associated with a location name. The location name identifies the connection that links a warehouse to the TWL system. Therefore, you must associate the location record with the **Product Warehouse Description Setup** record of the TWL warehouse.

The TWL warehouse name must be identical to the system **Product Warehouse Description Setup** record.

Setting the TWL warehouse description

1 Select **Product > Setup > Warehouse Description > Warehouse Description**.

2 In the **General-Settings** section, in **WL Location**, specify the exact warehouse database name specified in **SA Administrator Options-Logistics-WL Locations-WL Location**. For example, **`TWL`**.

3 In **WL Live**, specify **`Yes`** to initiate the master file setup interfaces from **WL Administration Initialize Warehouse** to update TWL while no other processing is occurring. We recommend that you perform this task over the weekend when no other processing is occurring.

The master file setup interfaces are:

- **Product Extended Product Cross Reference Setup**
- **Product Setup**
- **Product Warehouse Description Setup**
- **Product Warehouse Product Setup**
- **SA Table Code Value Setup**

If you are performing a phased data release to TWL before using TWL, change the **WL Live** field to **No** to enable normal system processing functions.

4 Click **Save**.

About WL Administration Initialize Warehouse

WL Administration Initialize Warehouse is used to create the data communication files used to transfer the data from the system to TWL.

If the pre-live product information is released through the **WL Administration Initialize Warehouse** function, the **TWL Configuration-Location** master and **TWL Configuration-Warehouse Zone** master records are validated. Attach the correct bin locations to the **TWL Configuration-Item** master record in TWL after the record has been released.

After you generate **WL Administration Initialize Warehouse**, any changes to the record are transmitted to each active **Product Warehouse Description Setup** TWL location. However, if you remove a record in TWL, then you must remove the corresponding record in **SA Table Code Value Setup** because the information is not synchronized.

After TWL is live, maintain the location record from within TWL. The full case, split case, and counter bin locations are synchronized to the system through **WL Entry Batch Processing Adjust Inventory**.

If you are creating a large number of records, **WL Transaction Inquiry** may time out if you have not set limiting filters. The **WL Transaction Summary Report** provides a summary of all WL transaction records based on warehouse and date for the **WL Transaction Inquiry** record counts. When you review the report, you can then be more precise in your **WL Transaction Inquiry** advanced search filters. When you click **Submit** in **WL Initialize Warehouse Administration** to begin initializing the warehouse, you are redirected to the **WL Transaction Summary Report**.

See Initializing the warehouse on page 51.

Initializing the warehouse

Note: You can run the **WL Entry Batch Adjust Inventory Report** in a pre-live environment. This capability is beneficial if you are using an RF unit to set up barcodes and update **Product Warehouse Product Setup** data before going live with your warehouse. The **Warehouse Logistics** section in **Product Warehouse Product Setup** is also available in a pre-live environment. Typically, you should

use these capabilities after you run **WL Administration Initialize Warehouse**, but before you run an Initial Physical Inventory.

1. Select **Warehouse Logistics > Administration > Initialize Warehouse**.
2. In **Warehouse**, specify the TWL warehouse.
3. In **Product Category**, specify a category. Use the category to isolate your updates to a group of products. All products in the specified category are set up with the same information.
4. In **Beginning Product** and **Ending Product**, specify a range of products. Leave these fields blank to include all products. If you specified a product in the beginning field, then that product autopopulates the field.
5. Select **`Create WL Whse Master Record`** to start the release of the **Product Warehouse Description Setup** information to TWL and populate the **TWL Configuration-Warehouse** master record. When selected, you can transfer to **WL Transaction Inquiry** to monitor the transactions that are created.
6. Select **`Create WL Item Records`** to have the process access the records and fields from these functions that apply to the **TWL Configuration-Item** master record:
   - **Product Warehouse Product Setup**
   - **Product Setup**
   - **Product UPC Information Setup** records

   The data in **WL Administration Initialize Warehouse** overrides any existing data in the TWL system for each **Product Warehouse Product Setup** record that is created.

   If you are setting up item data in a pre-live environment, then perform this task after business hours when no other processing is occurring. After the item release starts, clear the **WL Live** field in **Product Warehouse Description Setup** to enable standard system processing to occur.
7. Select **`Create WL Primary Bin Location in WL off ICSW Bin Locations`** to create primary bin locations only from the **Product Warehouse Product Setup** bin location #1 or #2. You must set up **Product Warehouse Description Setup** as a TWL warehouse. This option is not available if the warehouse is only using the RF receiving module. When TWL is fully implemented in the warehouse and the warehouse is live, bin locations are controlled by TWL.
8. Select **`Create Barcode Cross Reference Table in WL`** to start the release of the **Product Extended Warehouse Cross Reference Setup** barcode records when the **WL Live** field in **Product Warehouse Description Setup** is selected.
9. Select **`Create WL Vendor Master/Alt Address Records`** to start the release of the **Vendor Setup** and **Vendor Ship From Setup** records when the **WL Live** field in **Product Warehouse Description Setup** is selected.
10. Select **`Create WL Table Setup`** to start the release of the **SA Table Code Value Setup-Return/Adjust Reasons** and **SA Table Code Value Setup-Reason Unavailable** codes when the **WL Live** field in **Product Warehouse Description Setup** is selected.
11. Select **Submit**.
12. A message is displayed: `Processing has been set to run in the background. You will now be taken to the WL Transaction Summary Report which can be executed to monitor the status of this initial load of data. Canceling here does not stop processing.`
13. Click **OK**. You are redirected to the **WL Transaction Summary Report-Reports Main** page, where you can begin a One Time report setup. You can set a date range [**WL Trans Date**]. In the options, specify the warehouse. Select **`Send`** transactions, **`Receive`** transactions, or **`Both`**.

TWL operator permissions overview

TWL users log into TWL through the system. Access to the TWL module's function is set in **SA Operator Setup**.

To view the TWL Web module menus, operators must have the correct function security. Function security for TWL is set in **SA Operator Setup**. The function security can be granted for all TWL Web module functions, or limited to task-related functions.

For example, for an operator that is receiving inventory into the warehouse, ensure that the operator has access to the receiving functions. If an operator is performing tasks primarily with the RF unit, then access to the TWL Web module functions may not be necessary.

Setting the TWL operator permissions

Note: For RF users, you must set up an additional **Employee ID** and **Password** in **TWL Administration-RF Employee**.

See information about setting up an operator record and setting operator function security in the online help.

1. Select **System Administrator > Setup > Operator**.
2. Select your user.
3. Select the record and click **Next**.
4. Review the operator's settings in the these views:
   - **Static Information**
     - In **Static Data**, we recommend you select a home **TWL Warehouse**. The selected warehouse autopopulates the **Warehouse** field in the **Search** pane.
     - Optionally, in **Restrict to TWL Warehouse Only**, select **`Yes`** or **`No`**, based on the role of the operator.
     - Click **Save**.
   - **Entry Options**
   - **Controls**
   - **Other Options**
5. Select the **Function Security** view.
6. In **Menu Set**, specify **`web`**.
7. In **Name**, specify **`TWL*`**. You can view all functions for this module, all functions for submenu, or a specific function. Click **Search**.
8. In the **Options** grid, select the appropriate functions for this operator.
9. Click **Set Function Security**.
10. In **Set Security Level**, select the appropriate level, and click **OK**.
11. Click **Save**.

TWL authorization points overview

With the TWL authorization points function, you can limit the access an operator has to specific modules, menu options, and procedures. This authorization point security is over and above the security currently set up for this operator in **SA Operator Setup**. Setting authorization points prompts an operator's authorization level to be checked.

Each system client operator can have a level of authorization for each authorization point. Use authorization points judiciously because each point can slow or stop workflow.

See information about setting an operator's authorization level and authorization levels in the online help.

You must have previously set up the operator in **SA Operator Setup**.

Setting the TWL authorization points

1. Select **System Administrator > Administration > Authorization Security**.
2. Specify an operator and click **Search**.
3. In the **Authorization Points** grid, under **Description**, review these authorization points:
   - Change a Printed TWL Warehouse Order
   - Change an Order That Is In Picked Stage
   - WL Order Changes
   - WL Status Changes
4. In the toolbar, in the **Actions** list, select **`Grant Authority`** or **`Authorized`** for full authority. Select **`Not Authorized`** to require the operator be granted or denied authority to make changes that may affect TWL inventory. Authority must be granted or denied by an operator that has level 3 authorization. You may want to remove security from non-TWL users to prevent unknown effects on TWL processes.
5. You must close the function to save the settings.

Setting the TWL printing options

Set printing options as they relate to printing **Sales Order Entry** documents.

1. Select **System Administrator > Administration > Administrator Options > Documents > Sales Orders > Printing**.
2. In the **Options** section, select **Print Pick Ticket Line Items When Quantity Shipped is 0** to ensure all line items are printed on pick tickets that are used as packing lists.

   Note: If you are printing a packing slip or other documents from TWL to Infor Document Management (IDM), the **System Admin User** account is used by the system for all IDM connections. The **System Admin User** is specified in **SA Administrator Options-System-Login Security**. You must enable printing forms with IDM Enterprise Print in IDM and Distribution SX.e.

See the *Infor CloudSuite Distribution Configuration Guide* or *Infor Distribution SX.e Configuration Guide for Infor Operating Service*.

3 Click **Save**.

4 Select **System Administrator > Administration > Administrator Options > Logistics > WL Options**.

5 In **TWL Specific Settings**, clear the **`Download Zero Quantity Lines for the TWL Order Manager to Drop`** option to prevent zero quantity shipped lines from being released to TWL. This setting prevents these lines from being displayed on RF screens. If all lines on an order contain a zero quantity shipped, then the order is not printed by the standard system. Thus the order is not released to TWL.

   If this option is selected, then the total number of lines for the order is displayed in the TWL **Order Drop Manager**. This situation is deceiving if there are too many zero quantity lines displayed, but only a few to pick.

   See the setting, **Download Zero Quantity Lines for Order Manager to Drop**, in Setting the TWL WL Options on page 48.

6 Click **Save**.

7 To enable wider TWL reports to print, select **System Administrator > Administration Options > Administrator Options > System > Options**.

8 In System Reporting, select **`PDF Conversion for View and E-Mail`** and select **`Landscape`**.

   Note: Some TWL reports are wider. To prevent the report from exceeding the page width, you must select both of these settings. When the reports are converted to PDF format, these settings enable the wider reports to be printed in landscape format. The **`Landscape`** option is specific to TWL reports, and automatically sets the width to 132 and length to 48 for the wider TWL reports. You can verify in **SA Administrator Options-System-Report Items-Printing Parameters**.

9 Click **Save**.

10 To print TWL carton detail in various reports, select **System Administrator > Administration > Administrator Options > System > Report Items**.

11 Click **Edit**.

12 In **Name**, select **`oeepp`** for the **Sales Entry Pick Tickets Report** and click **Search**.

13 Click **Edit**.

14 In the **Printing Parameters** section, select **`Options`**.

15 In the grid, in the **Required Flag** column, select **`Print TWL Carton Detail`**.

16 Click **Save**.

17 Repeat this process for:

- **`vaepp`** for the **VA Entry Processing Pick Tickets Report**
- **`wtep`** for the **Transfer Entry Print Warehouse Transfer Report**

18 Click **Save**.

Setting the TWL backorder options

For backorders, if you have set up the system to pick inventory, that is, you have enabled **`Auto BO Fill`** in **Product Warehouse Product Setup-General**, then you can set administrator options to work with TWL.

1. Select **System Administrator > Administration > Administrator Options > Documents > Sales Orders > Back Orders**.
2. In **Create Back Orders At Stage**, select **`Picking (2)`** to ensure a smooth workflow and create backorders when you print an order.

   The timing for a backorder is set at the company level in **SA Administrator Options**. If a warehouse is linked to TWL, then the backorder at Stage 2 (Picking) is created regardless of the option setting. Regular warehouses can create backorders at higher stages.

   An exception to these settings is an override available for limited use from **Product Warehouse Description Setup**. With this override, you can create backorders at Stage 3 (Shipping) for individual warehouses. Contact your Infor business consultant before you use the override.

   See information about create backorders at ordering, picking, and shipping stage in the online help.
3. In **Action to Take on Completion of Receiving**, select **`Fill Back Orders`** or **`Receipts Report`** to perform these tasks:
   - Fill backorders
   - Ship complete orders
   - Ship tag and hold orders
   - Ship orders tied to purchase orders or warehouse transfers

   The remaining quantity received is moved to the quantity on hand.
4. Select **`Print Pick Tickets After BO Fill`**.
5. In **Once Completed**, select **`Both Move and Delete`** to ensure orders can be filled from new receipts when the **WL Entry Batch Receiving Report** is processed.
6. In **Method For Automatic BO Fill**, select **`All`** to ensure all orders and lines are considered when the **WL Entry Batch Receiving Report** is processed.

   The total available quantity is distributed to backorders, ship complete, and tag and hold orders until the quantity is completely allocated or all orders have been filled. If line items can be partially filled with the remaining total available quantity, then the quantity that is shipped on the order is increased to equal the total available quantity. A new backorder might be created for the remaining difference between the quantity ordered and the quantity shipped. The exception is a Ship Complete or Tag & Hold Order.
7. Click **Save**.

Setting the TWL barcode options

1. Select **System Administrator > Administration > Administrator Options > Products > Alternates/UPC**.

2 In the **Alternates** section, select **Barcodes**. By selecting this option, you can set up this type of alternate product in **Product Extended Product Cross Reference Setup**.
3 Click **Save**.

About TWL expanded product number options

You can enable the Product number and the Vendor Product number fields to be expanded to contain up to 50 characters. The default is 24 characters. You must enable the expansion.

If the expansion is enabled in **SA Administrator Options**, then the expanded product number in the corresponding TWL **Item** field is enabled in both TWL Web module and TWL RF. The field expansion cannot be enabled from TWL. When enabled, TWL is modified to show the number in the **Item** field by the expanded length.

Setting the TWL expanded product number options

1 Select **System Administrator > Administration > Administrator Options > Products > Defaults**.
2 In the **Product Setup** section, select one or both options:
   - **Allow Expanded Product Length**
   - **Allow Expanded Vendor Product Length**
3 Click **Save**.
4 Log out and log back in to activate the change.

   See information about expanded product number in the online help.

Setting the TWL purchase order defaults

You should not order nonstock products from your vendor or warehouse unless you have an existing order from a customer or an existing transfer from another warehouse. This prevents you from carrying extra inventory.

1 Select **System Administrator > Administration > Administrator Options > Documents > Purchase Orders > Entry Defaults**.
2 In **PO Entry**, select **Order or WT Required When Nonstock Item Entered on PO**.
3 Click **Save**.

Setting the TWL ship-via carriers

You can ship TWL orders through TWL or through a shipping interface. If you select TWL for shipping management, then the TWL carrier values you specify in **TWL Outbound-Shipping-Carrier Master** must be identical to the values that are specified in **SA Table Code Value Setup-Ship Via**. Set up the Ship Via in the **SA Table Code Value Setup**.

See Setting the TWL return adjust codes on page 58.

1. Select **System Administrator > Setup > Table Code Value**.
2. In **Table List**, select **`Ship Via`**.
3. Click **New**.
4. In **Ship Via**, specify a four-character value. For example, UPSG.
5. In **Description**, specify up to a 12-character value. For example, UPS Ground.
6. Repeat steps as needed to add Ship Via table values.
7. Click **Save**.

About TWL return adjust codes

You must set up return adjust codes in **SA Table Code Value Setup** that match the Return Reason codes hard-coded in TWL:

- Reason Unavailable codes
- Return Reason codes
- Adjust Reason codes

These specific codes are released with **WL Administration Initialize Warehouse**. After you implement your TWL system, be aware that making changes to these codes can adversely affect your operation and conflict with system performance. You should discuss any potential changes with your Infor business consultant before proceeding.

See TWL return-adjust and reason unavailable codes on page 39.

See Setting the TWL return adjust codes on page 58.

Setting the TWL return adjust codes

1. Select **System Administrator > Setup > Table Code Value**.
2. In **Table List**, select **`Reason Unavailable`**.
3. Click **New**.
4. In **Reason**, specify **`I`**.
5. In **Description**, specify **`Inventory Hold`**.
6. Repeat steps to set up all of these codes:

I	Inventory Hold
L	Liquidation
O	Overage
Q	Quality Assurance
R	Returns Hold
S	Scrap
T	Transport Damage
W	Work-In-Process
Blank	Available

7 Click **Save**.

Note: Optionally, you can specify an EDI Unavail Type. The EDI Unavail Type is used to create cross-references between the system Reason Unavailable code and the standard EDI codes for Receiving Condition. The cross-references are created as they are defined in the element table, Element 412, of the ANSI X12 Standards manual.

8 In **Table List**, select **`Return Adjust Reason`**.

9 Click **New**.

10 In **Reason**, specify **`I`**.

11 In **Description**, specify **`InventoryHold`**.

12 Repeat steps to set up all of these codes:

I	Inventory Hold
L	Liquidation
O	Overage
Q	Quality Assurance
R	Returns Hold
S	Scrap
T	Transport Damage
W	Work-In-Process
Blank	Available

13 Click **Save**.

Setting the TWL printer groups

We recommend you set up at least one printer group, in **SA Printer Group Setup**, to limit the list of printers that are shown to RF operators. Set up a printer group named <company>-<warehouse>; for example, “5000-twl”. Assign the printers that RF operators should see to that group in **SA Printer Setup**.

If you set up a printer group for company-warehouse, and do not assign printers, then the RF operator’s **Choose Printer** screen is empty.

1. Select **System Administrator > Setup > Printer Group**.
2. Click **New**.
3. Specify a name and description for your TWL printer group.
4. Click **Save**.

Setting the TWL printers

Because TWL operates as part of the Distribution SX.e system, all printers used for TWL functions must be set up in **SA Printer Setup**. For example, your must set up printers for order managers to print pick lists or work orders. You must set up printers for RF operators to print packing lists, manifests, and other reports.

1. Select **System Administrator > Setup > Printer Setup**.
2. Click **New**.
3. In **Printer Name**, specify your TWL printer name.
4. Click **Save**.
5. In the **Required** section, specify this information:

   Description
   Specify an expanded version of the printer name. If you use a numbering scheme for printer names, the description should describe the actual printer name or location of the printer.

   Width
   Optionally, specify the width of the printer. You can specify 80 or 132 column printers. The system automatically condenses a report to fit a smaller-width printer if the correct code strings are specified on the **Settings** view.

   Type
   Select the type of device.

   Device or Command
   Optionally, specify the device or command associated with this printer name. This command is an operating system command that is used by the system to direct reports to a specific file or output device.

Swap Printer
Optionally, specify the printer to use when the operator specifies the incorrect type of printer. If the operator specifies the incorrect type, and this field has a value, the swap printer is automatically loaded. If this field is blank and the operator specifies the incorrect printer type, then an error message is displayed.

Group

Specify the name of the printer group to which to assign this printer.

This name should be the group you created in Setting the TWL printer groups on page 60.

6 Optionally, in the **Settings** page, you can specify appropriate setting information.

7 Click **Save**.

Send and Receive log files

The ability to turn on and turn off the TWL send and receive log files is controlled by **SA Business Rule Setup** manual setup. The standard for debug logs is that control does not exist by default. A standardized format is used.

You must set up a **SA Business Rule Setup** business rule for logging level / TWL Logging as a config type setting from the Legacy Classic Logging Level template. If the record is not setup, or exists with a value of 0 (Zero) or Blank, no logging is generated. The levels of Info, Trace, and Error are not supported because log4sx is not in use. Any value other than 0 (Zero) or Blank produces the log files.

Chapter 5: Setting up locations

After you have completed the setup of TWL Web and Distribution SX.e, you must complete the creation of the warehouse layout and location, and assign products to those locations. You can set up location records using the TWL Web module or using the Radio Frequency (RF) unit.

Use this information to set up the TWL records needed to keep track of inventory and warehouse processes.

About TWL layout and location settings

Within the warehouse, the layout is fundamentally important. You must track all products at the location level and track all of these product movements:

- Receiving
- Counting
- Put away
- Picking
- Packing
- Shipping

Consider the layout and how TWL works with the layout as you specify location settings.

You must finish setting up warehouse layout and locations before your site is live.

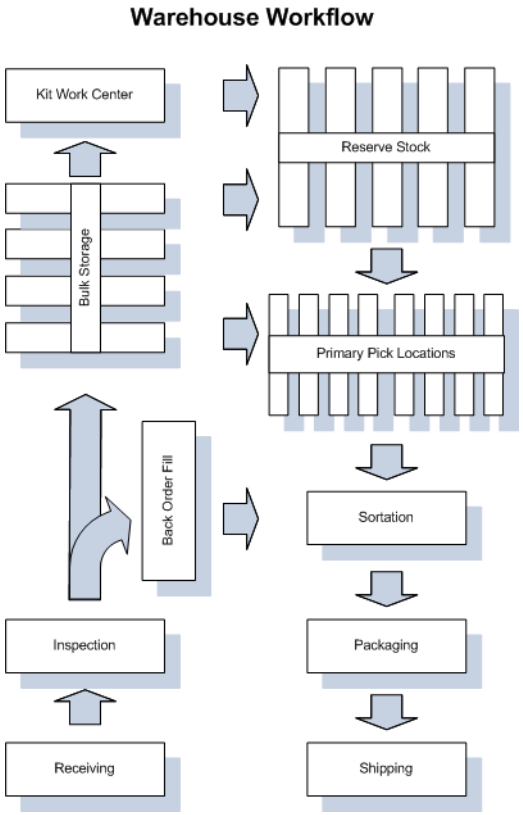
You set up the pre-live product information to alter records in advance without affecting the system or TWL. You can prepare this information off-line for individual product records, and set defaults for groups of products using **WL Initialize Warehouse Administration**. As you release product information to TWL, the **TWL Configuration-Item** master record is populated.

Warehouse layout

The distribution warehouse is characterized by how goods flow through. The most logical layout of a warehouse is one in which the material flow is aided by the placement of its various components.

This workflow provides an example of how you can reduce movement as inventory is received at the dock and processed. Product can be inspected for quantity and quality, and backorders can be filled

in the cross-dock area. The remaining stock is placed in a bulk storage area to replenish stock to the kitting department, overflow stock, and primary pick zone or area. As goods are picked, the goods are moved to the sortation area, then to the packaging and shipping departments and out the door. This diagram shows an example of a warehouse layout that reduces movement when inventory is received:



Warehouse zones

Setting up zones divides your warehouse into manageable, functional areas. A zone contains several locations and is a segment of your warehouse that is usually designed to fulfill a specific utility or purpose. For example, within your warehouse, you can have these types of zones or areas:

- Secured
- Cold storage
- Quick pick
- Bulk storage
- Related items
- Hazardous materials
- Other specialized partitions

With a warehouse zone, a picker can specialize in handling the equipment, locations, and items in that zone.

The warehouse zone is specified in the **New Part Default Zone** option in **SA Administrator Options-Logistics-WL Options**. For items being received in TWL for the first time, this warehouse zone is assigned to the **TWL Configuration-Item** master record. The warehouse zone is also assigned to the **Warehouse Zone** field on **Product Warehouse Product Setup** records for items received in the TWL warehouse.

If a zone is not specified when a product is received, the **TWL Configuration-Warehouse** master record is checked. If a zone does not exist on that record, then you can specify where the inventory is being stored during receiving. New receipts can be directed to other zones, such as the bulk or overflow zones, that enable putaway.

TWL can be set up to enable one employee to pick several orders, or enable more than one person picking the same order in different zones. If your zones are overlaid when you set up warehouse zone records, more than one employee can pick in the same zone because a set of aisles exists in more than one zone record. For example, if zone A has aisles 1-10 and zone B has aisles 1-50, then both zones have aisles 1-10.

Counter sale zone

A Counter Sale (CS) or point-of-sale (POS) order for a TWL warehouse is generally used in a cash and carry environment. A cash and carry environment is where a customer comes into the warehouse to purchase products at a counter area. These orders are released and dropped to the floor from **Order Drop Manager** or by an auto-drop routine.

In the workflow, payment for the items, or tendering, must be completed when your customer leaves the counter with inventory. After the customer selects items from your counter zone and brings them to the counter, you enter the CS and tender the order. Continue to process the order through your standard invoicing workflow to update the system.

For a location to be a counter sales primary pick, the location must be in a counter sale warehouse zone. A counter sale zone was set up on the **TWL Configuration-Warehouse Zone** master record when you implemented TWL. Only one counter sale zone exists per warehouse.

Receiving dock

A receiving dock is pivotal to the workflow of your warehouse. One of the most important functions in the warehouse begins when products are delivered to your warehouse. If receipts are poorly handled, significant problems may be compounded by the time the errors are located and corrected. You must create a receiving dock location in the **TWL Configuration-Location** master record.

Inbound receiving staging location

When orders are large and arrive in rapid succession, you can off-load them and stage the received pallets on the dock floor until you can process them. To use this function, the items must be on a pallet on the dock they were received at.

The **TWL Configuration-Location** master record contains a field that determines a stage location is an inbound location. To access this field, select **`Stage`** as the location type.

To putaway the receipts directly from the inbound staging location, then specify **`Dock`** in the first four positions of the location name. When Dock is added to the location name, that dock shows in the putaway list. For example, naming the inbound location DOCKSTG enables you perform putaway tasks directly from that location.

Packing and shipping staging locations

You can use staging locations to locate and sort portions of orders during packing and shipping. Staging locations provide visibility of the containers picked by your various operators and facilitates moving, locating, and retrieving the containers to consolidate the order. Staging locations are ideal for orders with Will Call or Ship Complete dispositions. You can scan a staging location or find out if containers have been staged for the same customer.

To set up staging locations, use the **TWL Configuration-Location** master record.

When you set up staging locations for packing or shipping, use any location name that does not begin with these names:

- dock
- bk
- dt
- rp

These location names are reserved for other functions.

On the RF, you can use function keys F7 and F8 to access the staging location screens. After you access the staging screens, the F7 and F8 keys are disabled.

Location assignments

Location numbers must identify a location to facilitate picking, putaway, and other processes that interface with a location. For example, you might begin by identifying the aisle pattern. After you number the aisles, you can identify each section of shelving as a bay number. Within the bay, the numbering recommendation is from bottom to top, and left to right.

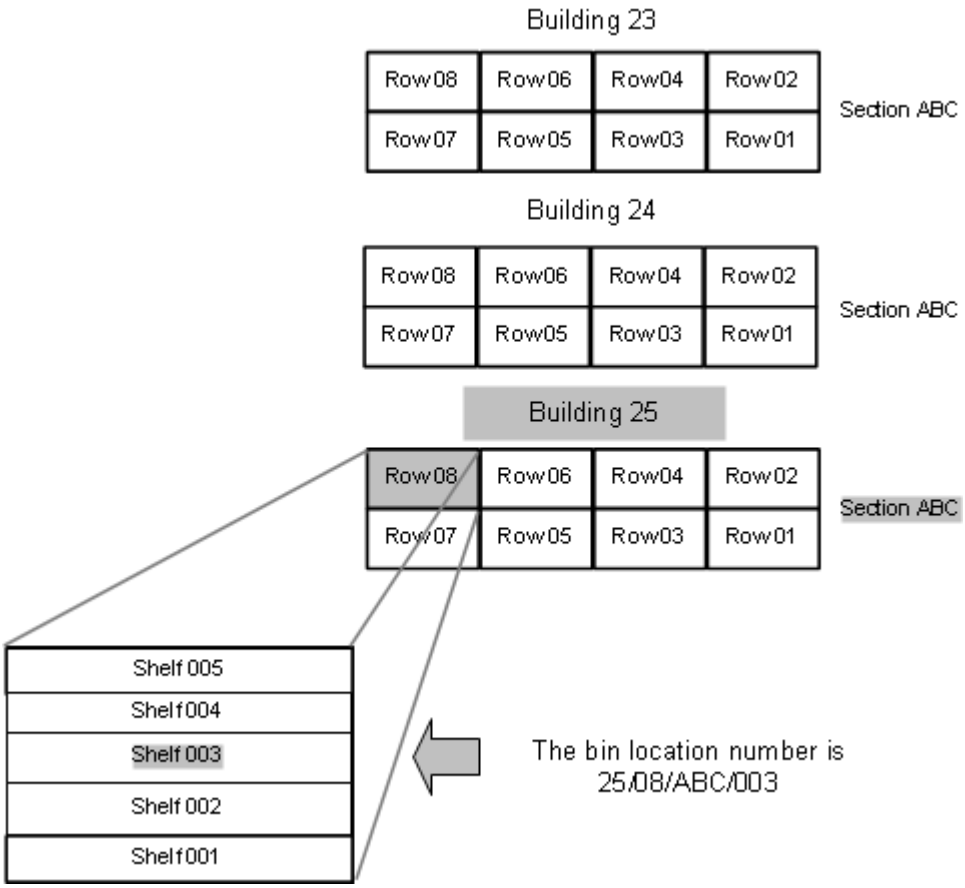
Another numbering convention is bottom to top, closest to aisle to farthest from aisle. Therefore, the high velocity bins are closest to the center pick aisle. After the bays are numbered, you determine the

number of shelves or levels in the bay, beginning with the closest shelf to the floor. Going vertically across a shelf, determine the maximum number of bins, or slots, that you can fit on the shelf.

These bins or slots are the locations that must have bin location labels printed. These location-numbering schemes are both independent of zones. These schemes enable you to reconfigure zones without affecting the location numbering system. You can adapt the warehouse to changes in these methods as your business changes:

- Picking patterns
- Picking techniques
- Size requirements

This diagram shows a section of a warehouse and an example of the location IDs:



Within the aisles, the bays represent sections odd or even numbers, depending on the side of the aisle the bay resides.

Within the bay, each level of shelving is assigned a number with the lowest number closest to the floor.

Within the levels are the bins or slots in which products are stored. Each bin must have a location label specified to identify and associate the bin with the product stored within.

The layout that works best for your particular operation is different than the layout of any other warehouse. Be consistent when you are assigning your location IDs.

Bin locations

In TWL, location addresses are defined in terms of storage capacity [length, width, and height] and stacking constraints. These location addresses and characteristics are maintained individually. A product can have an unlimited number of storage locations. Products, locations, and quantities are tracked by TWL. The bin location numbers are used by TWL to route put away, picking, counting, and material handling tasks.

Counter locations

Set up your counter sales area with unique location names to clearly identify the position of the bin in the counter area to facilitate these processes:

- Counter replenishment
- Picking
- Cycle counting
- Accounts payable
- Other downstream processes

For a location to be a counter sales primary pick, the location must be in a counter sale zone.

Kit staging locations

You can set up more than one kit work center on the **TWL Administration-Department** master record. Each kit work center requires locations that meet these needs:

- Staging locations that are dedicated for receiving components into the center
- Storing finished kits that can be putaway
- Segregating kits that are needed to fill an order

Alternate locations

Alternate locations are transportation devices or movable containers used to move inventory from one location to another, or to gather and sort inventory to fill orders. These containers are not in a fixed location and their identity and composition might vary from one use to another.

The most common naming convention of alternate locations used for cart picking is to append the word Cart with three numeric characters. For example, Cart001. The name of the cart should be 7 characters or less. When carts are used for picking, a predefined number of cells or bins are created for the cart.

Based on the number of orders for the wave picked, cart cells are assigned by TWL through procedures used in the RF unit. The cells within the cart contain these three characters:

- 001
- 002
- 003

When you append the alternate location name with the cell or bin numbers, you reach the 10-character maximum for location names.

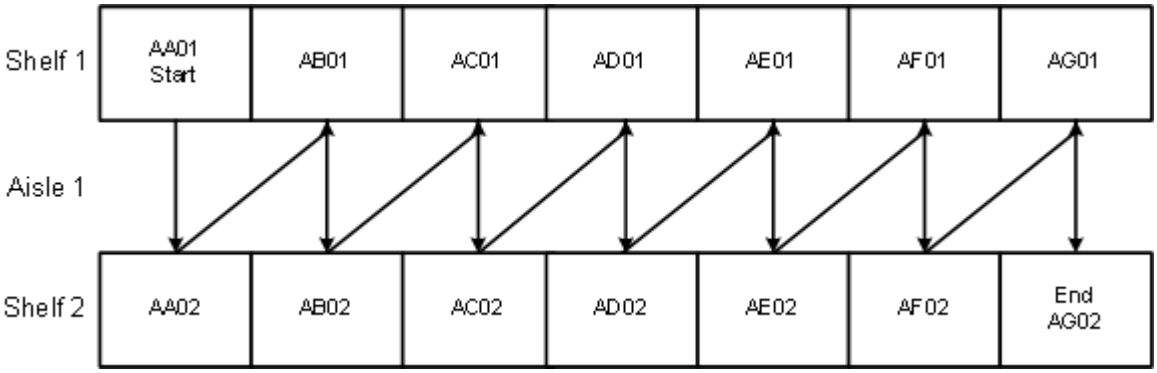
Location and picking method

You must consider the routing of the pick activity when locations are established. The order-picker's routing pattern should typically be sequential [serpentine] and there should be a logical progression to the pick position numbers through each warehouse aisle. When orders are dropped, the hierarchy checked begins with the zone, then the aisle, then the locations within each aisle. For example:

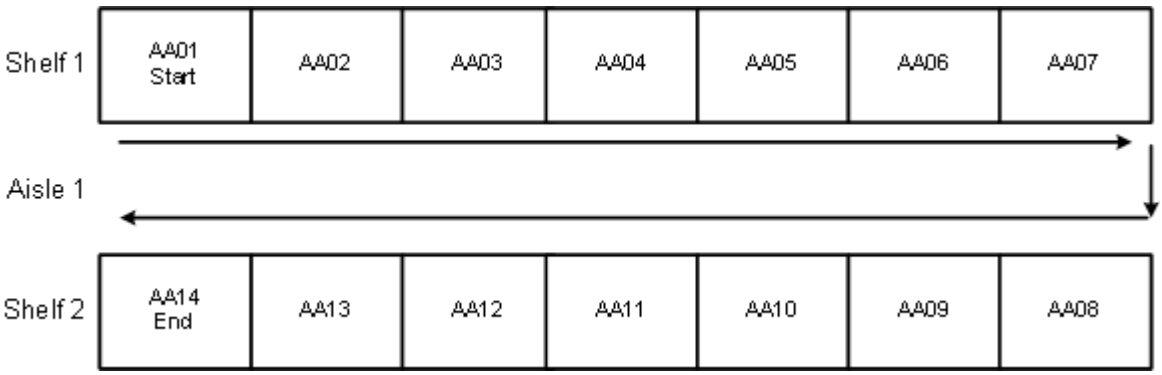
A Warehouse Zone record for zone X contains the first aisle of 1 and the last aisle of 1.

The **TWL Configuration-Location** master records have been set up for seven locations in shelf 1 [AA to AG] and seven locations in shelf 2 [AA01 to AG02].

A numeric sort can be used by the TWL system to determine the serpentine route. This diagram shows a numbering scheme that results in a diagonal serpentine route:



This diagram shows a numbering scheme that results in a horizontal route:



A **TWL Configuration-Warehouse Zone** record contains the first aisle of 1 and the last aisle of 1.

TWL Configuration-Location master records have been set up for seven locations in shelf 1 [AA01 to AA07] and seven locations in shelf 2 [AA08 to AA14].

You can specify the first aisle and last aisle of a zone in the **TWL Configuration-Warehouse Zone** record. Specify the zone and aisle in the **TWL Configuration-Location** master record.

Primary pick locations

The bin locations and item popularity are important factors in your logistics warehouse. Your warehouse has a fixed amount of space, and good slotting practice maximizes the use of this space and decreases travel time.

Primary bin locations usually contain the most popular items. The number of bin hits can be used to measure item popularity.

In TWL, primary locations are the only locations for which replenishments are performed. You can set up primary pick locations for these locations:

- Full case
- Split case
- Counter sales
- Pallet

Note: Stocking multiple products in a primary pick location is not permitted because pick requests are only created for the product assigned to the primary pick location. You can use the pick sequence and putaway sequence capabilities in TWL if you must store multiple products in a bin location.

The minimum and maximum replenishment parameters must be set up for each primary location. The inventory levels should be set so that replenishment occurs about once a week. If replenishment occurs more frequently, then the product is profiled incorrectly or the location is inadequate for the volume. Managing inventory profiles and replenishment needs is important to the successful implementation of primary locations. Although you have unique location requirements for your operation, generally, a location should balance available space with replenishment activity needs.

The **Product Warehouse Product Setup** bin locations are not accessible after your warehouse is live, but they are updated as these fields:

- Primary split case [piece]
- Location [Bin Loc #1]
- Primary case location [Bin Loc #2]

You cannot maintain the fields from the system.

Location and packing method

The **TWL Configuration-Warehouse-Warehouse Parameters** settings provide two parameters that determine whether a) the packing step is performed and b) a packing location is needed:

- pick-to-pack
- pick-to-tote

In a pick-to-pack environment, you place the products you pick immediately into a shipping container or on a truck pallet. To use truck pallets, you must set the parameter 1068, Truck Pallets, to **Yes**. Because products are picked from the shelf and put directly into a shipping container, the packing process is eliminated. Packing by order and packing by customer are not relevant options on the RF if your warehouse is set up to be a pick-to-pack warehouse.

When you implement TWL, system parameters have been selected to configure your system. In a pick-to-pack or pick-to-tote warehouse, use these picking parameters to pick more than one order, with the same destination, to a pallet or a tote:

- Parameter 1054, Tote Validation
- Parameter 1060, Carton Validation

You can also use these parameters to pack more than one order in a single carton. To pack more than one order in a single carton, perform a carton-to-carton transfer.

Use picking parameter 1080, Truck Pallet Validation, to control the validation used when you pick to a truck pallet using the RF Picking module. This parameter prevents two ship addresses and carriers from being picked onto the same truck pallet. Options include:

- No Validation
- Ship Address and Carrier
- Carrier and Service
- Order and Order Suffix
- Customer Code and Carrier

If you enable parameter 1099, Suggest Carton – Advanced, then the validation criteria defined in parameter 1060, Carton Validation, determines which carton is suggested. The last carton the picker used is suggested, even if the carton was for a different order. Only cartons that you previously packed are suggested.

When the shipping container or truck pallet is full, the pallet can be shipped on a carrier managed by TWL. The Ship verification is performed to update the order and synchronize with the system.

In a pick-to-tote environment, you place picked products into an intermediate container, or tote, that is affixed to a cart or alternate location.

Your facility might be configured for quick pack, which means you pack the entire contents of a tote into a carton. Parameter 1051, Packing Option, determines the scanning order and packing configuration, and you have these options:

- Carton from Totes: This option is for packing one carton from several totes. Use this option if you use several totes to pick an order. The RF prompts you to scan the carton, then the totes.
- Tote to Cartons: This option is for packing many cartons from one tote. Use this option if you pack one or more orders from a tote into several cartons. The RF prompts you to scan the tote, then the cartons.
- Quick Scan: This option is for packing many cartons from one tote. Use this option to pack a significant quantity of goods into one carton. The quantity is assumed to be one.

Location and TWL item records

When you implement TWL, you must create item [product] records initially in the system using these setups:

- **Product Setup**
- **Product Catalog Setup**
- **Product Warehouse Product Setup**
- **Product Warehouse Description Setup**

Then, you must run **WL Initialize Warehouse Administration** to release the records to TWL. However, you must consider item records when planning your layout and locations.

When a kit, serial, lot, or hazardous material item is released to TWL, related information is included with the interface file. Item characteristics are used by TWL to determine how to route item flow, when to gather specific information, and what type of processing is required.

Nonstock items

When an item does not exist in **Product Setup**, the **Product Catalog Setup** records are reviewed by TWL. If the item is not found in either record, the product is assumed to be a nonstock. Use the inventory report, **Items (Non Stock)**, to monitor the nonstock items in your warehouse. You can sort this inventory report by item and location.

Prebuilt kit items

The **Product Setup** record contains fields specific to a kit item. Complete these fields as needed:

- Kit Type
- OE/BP Kit Rollup
- Component

In **Product Warehouse Product Setup-WL Setup**, specify the **Kit Build Department** for the parent product.

When kit item records are released to TWL, a prebuilt kit is automatically flagged for assembly on the **Kit Detail** record. This record routes the work order to the kit build department. View Kit Details from the **TWL Configuration-Item** master record.

Labor items

The selection made for parameter 2028, Labor Items, determines whether **Order Drop Manager** skips the line or creates a pick record for the line.

Hazardous items

Use these areas to track which products are considered hazardous and require a Material Safety Data Sheet (MSDS) be made available to employees and customers:

- **Product Setup**
- **Product Hazardous Info Setup**

- **SM Extended Totals Hazardous Report**
- **Product Hazardous Materials (MSDS) Report**

Hazardous designations are made by the US Occupational Safety and Health Administration (OSHA) and its worldwide counterparts.

The MSDS designation for a product is released to the **TWL Configuration-Item** record. Use the MSDS lookup button to view the information from the **TWL Configuration-Item** master record.

To have the packer scan the MSDS sheet before closing the carton containing the MSDS item, select **`Mail Later`** in the **MSDS Print** field of **SA Administrator Options-Products-Defaults**. The sheet number is validated by TWL against the Item master record. To ignore the MSDS sheet requirement, select **`Picking`** for this option.

Lot items

Lot numbers are captured when the item is received. If you set parameter 7506, Allow Multiple Lots Per Location/Pallet, to **`Yes`**, you can store an unlimited number of lots per location. If you select **`No`** for parameter 7506, then TWL uses locations to distinguish different lots, and you can store one lot per location.

In a pallet location, each lot must be stored on a separate pallet. If a location can hold multiple pallets, several lots can be stored in the same location; however, each pallet must contain only one lot.

When lot items are released to TWL, the **TWL Configuration-Item** master record establishes preset defaults. To view lot Information, use the **Search** pane to specify criteria to search for an existing record. In the grid, select a predefined lot item.

Serial items

Serial information is accessible from the **TWL Configuration-Item** master record.

For all TWL warehouses, select **`No`** in the **Force Lot/Serial Input** field in **SA-Administrator Options-Documents-Sales Orders-Entry Settings**. Serial numbers are usually captured when the item is packed.

These inventory reports include detail information about serial items:

- Items: Serial Items Report
- Inventory By Location Report
- Inventory By Stock Number Report

Item cube, height, width, and length

The **TWL Configuration-Item** master record contains fields for item dimensions based on dimensions from **Product Setup**, which updates the **TWL Configuration-Item** master record. The cube is calculated as the length * height * width. **Product Setup** allows for 5 decimal places for **Cube** and **Weight** fields.

All dimensions for all items and locations in the system and TWL must be in a similar unit of measure. For example, if you calculate cubic volume in inches, use inches for all items and locations in both warehouses. Use the smallest equivalent unit of measure relevant to your items.

Units of measure

The stocking unit should be the base unit of measure [each, box, and so on] for a product. Throughout Distribution SX.e, we recommend that the stocking unit be the smallest unit in which a product can be sold, purchased, or stocked. This is because all other units are based off the stocking unit.

In TWL, the default selling unit of measure (UOM) for individual units is Each. Inventory is handled in TWL by this individual unit. If you buy, sell, and stock an item in different units of measure, set up your TWL system to recognize the different units of measure. Then, cross-reference them. The appropriate quantity is calculated by TWL and those quantities show on the RF.

These parameters control multiple units of measure:

- 3603, Counting
- 3604, Material handling
- 5755, Put away
- 6002, Receiving
- 7000, Picking

When multiple units of measure are set by the respective parameter, the equivalent quantity for the different unit of measure is computed by TWL. For example, you buy, sell, and stock liquid soap in the individual unit, Each. Your vendor frequently sends the soap in 4-packs, 6-packs, and 12-packs, which you store in the same location. A picker has an order for 24 individual units [Each] of liquid soap. However, to save time, a pack of 12 units [doz] is picked. The quantity to be picked is calculated and shown. Rather than extracting 24 individual units, the picker extracts two 12-packs.

If you must pick two different units of the same item, specify the item on two different lines. For example, you are running a promotional for liquid soap. If the customer buys four, you add a free container to the shipment. In this case, you specify the four containers on one line and the free container on another line. The picker can select a 4-pack for the first line and a single unit for the complementary promotional. If the picker needs to break a package to obtain an individual unit, the remaining units remain in the bin as individual units [Each]. The inventory is maintained by TWL in the lowest common denominator.

Caution:

TWL is an inventory system and quantity is managed in stocking units. Inventory is also managed to two decimal places. Picking is managed in inventory units because picking is an inventory process. When the pick request is created for TWL, the request is converted to a stocking unit quantity. Although the picking screen in the RF may suggest a pick based on the ordered unit, the actual pick quantity is stored in stocking units. When the pick information updates the ship quantity on the Distribution SX.e stock order, the quantity is converted from the stocking unit pick amount to the selling unit amount.

If you do not have your stocking unit as the smallest unit, you may encounter a rounding offset that may cause an extra decimal amount. For example, an order of 3 may record as 3.02. We recommend you resolve the unit setup for the item. However, to work around this issue in the short term, you can use the option, **`Whole Order Unit Ship`**, in **TWL Configuration-Item-Miscellaneous-Outbound**. If this option is selected, and the pick is not consolidated, the suggested pick quantity is rounded to the nearest whole number. Thus, the picker does not have to make the rounding decision. Selecting this option also causes the ship quantity on an order to always be rounded to a whole number.

If TWL parameter 7000, Multiple UOM During Picking, is set to **`Yes`** to permit picking with multiple units of measure, then the validation during RF **Packing-Order/Pack Verification** is based on the selling unit. Parameter 7000 may be set to **`Yes`**, and the **`Whole Order Unit Ship`** option selected for the

item in **TWL Configuration-Item-Miscellaneous-Outbound**. If so, the stock quantity picked is rounded to the nearest whole selling unit to be validated in RF **Packing-Order/Pack Verification**.

Item cross-references

A cross-reference is product that can be exchanged for a stock product based on the type of relationship existing between the two products. In TWL, you can use the Cross-Reference function to perform setup, change, and remove cross-reference records. Typically this cross reference is a barcode record. The cross-reference function is available from TWL Web module and the RF.

See Creating barcode cross-references on page 83

Because barcode cross-references are item-specific, you cannot set up duplicate cross-references for multiple items. If the item is bar-coded with a number that is different than your item number, then you can create cross-references in **Product Extended Product Cross Reference Setup**. You must ensure the **Create Barcode Cross Reference Table in WL** option is selected in **WL Administration Initialize Warehouse** to release the **Product Extended Product Cross Reference Setup** information to TWL.

If you plan to use UPC barcodes, then set up cross-reference records to link the barcodes to your item records. The **Product UPC Number Setup** record is released to the **TWL Configuration-Item** master record so that you can receive by UPC number; otherwise, the item is treated as a nonstock by TWL.

The management report, **Vendor Cross Reference Report**, shows the cross-references between your vendor part number and your item number. Sort by vendor, vendor item number, or item number and run the sort for a particular zone and aisle or for the entire warehouse.

Item record changes

After the warehouse is live, the **Bin Loc #1** and **Bin Loc #2** fields are not accessible from **Product Warehouse Product Setup**. These locations are now controlled by TWL and are synchronized with the system.

The system controls **Product Setup** updates or deletions to ensure data integrity across the two systems. If you inactivate a item on the **Product Setup** record, then the item is also inactivated on the **TWL Configuration-Item** master record.

The system controls deletions of **Product Warehouse Product Setup** records.

If you use the **Product Administration Change Product Report** to change an item name, then the new name is updated in the **TWL Configuration-Item** master record. It is also changed in all locations that contain the item. Any inactive **WL Transaction Inquiry** records are not changed when item names are changed to expedite the process.

If you change any of these fields in the system, then a release is created to update the corresponding TWL record:

- Stocking Unit
- Status Type
- Kit Type
- MSDS Flag
- Weight
- Length

- Width
- Height
- Product Category

The **WL Entry Batch Adjust Inventory Report** updates the system.

The fields in the **WL Setup** view of **Product Warehouse Product Setup** are updated by TWL.

The system is updated by TWL when the quantity in TWL is zero.

Location and barcode and labels

Setting up labels is important to overall location strategy and item set up. Ensure that you spend the appropriate time setting up barcodes and labels in a pre-live environment before running **WL Administration Initialize Warehouse** function and going live.

See label information in Integrating TWL with Enterprise Printing Platform on page 207, Integrating TWL with Infor Document Management on page 230, and Legacy labels on page 235.

Modifying a TWL location record using the RF

1. From the RF **Main Menu**, select **Inventory Control**.
2. Select **Item Maintenance**.
3. Select **Location Update**.
4. Scan or specify the location.
5. In the **Print Label** field, indicate whether to print a location label.
   - If you are not printing labels, proceed to selecting a label printer. This field remains the same until you exit this function and specify a different value.
   - To print a location label, select a label format.
6. Specify or update the type of location and other location attributes on the **Location Update - Detail** window. These location types are valid:
   - Bulk
   - Pallet
   - Carousel
   - Flow Rack
   - Shelf
   - Stage
7. Select a label printer.
8. Repeat steps as needed to create or update additional locations.
9. When you have completed your inquriy, return to the **Main menu** using the back button in the TWL RF browser.

Creating multiple locations using TWL Web

Before you create a range of locations, map the warehouse and plan your picking and putaway routing sequences to ensure you create appropriate locations. If you are creating a range of locations that sequence horizontally, you cannot use this feature. For example, you may be creating location records for the high shelves that can be accessed by a forklift. If so, create the records individually because the locations are sequenced horizontally rather than up and down.

When this function runs, it can potentially run for a long time. The time depends on how many bin locations you decide to create based on specified ranges and settings. Consider breaking the ranges down into workable lists. Use the Working List to see the list of bin locations that are being created. Then, you can decide whether to proceed, or whether to delete some records before performing the create.

Access to the new report is controlled by function security in **SA Operator Setup**. We recommend you limit access to system administrator-level operators.

1. Select **TWL Configuration > Multiple Location Create**.
2. Specify a TWL warehouse.
3. In **Warehouse Zone**, select the zone in which the bins are located.
4. Optionally, in **Prefix**, specify a prefix. If you do, all locations are prefixed with the same characters.
5. The position represents the second set of characters for a location. In the Position section, specify this information:

   Digits or Letters
   Specify whether the characters are digits or letters

   From | To
   Specify a range.

   Length
   Specify a length of the position part of the location address.

   Range Type
   Select **`All`**, **`Even`**, or **`Odd`**. You can create all locations in the range or create locations for one side of the aisle by selecting even or odd.

6. The level represents the third set of characters for a location. In the Level section, specify this information:

   Digits or Letters
   Specify whether the characters are digits or letters

   From | To
   Specify a range.

   Length
   Specify a length of the level part of the location address.

7. In the Bin Location Attributes section, specify this information:

Bin Type
Select **Pallet**, **Stage**, **Shelf**, **Flow Rack**, **Carousel**, or **Bulk**.

Class
If you use ABC Classification, specify a percentage class. It is updated when locations are stratified by EOD. Used when put-away locations are assigned. Items are typically stored by the system in locations of the same class to organize stock within the facility. If a location with a matching class cannot be found, the next logical class is selected.

Aisle
Specify an aisle for the location.

8 In the Cube Dimensions section, specify this information:

Height
Specify the total height of the location measured in inches. This is used when calculating the cube of the location.

Width
Specify the total width of the location measured in inches. This is used when calculating the cube of the location.

Depth
Specify the total depth of the location measured in inches. This dimension is considered when calculating the cube of the location.

Cube
Informational only. This is a calculated field populated as a result of the height x width x depth of the location.

9 In the Other Dimensions section, specify this information:

Maximum Weight
Specify the maximum weight of merchandise that can be stored in this location.

Pallet Footprint
Specify a value for the pallet size in the location.

Stacking Height
Specify the total number of floor pallet spaces this location occupies.

Maximum Pallets
Informational only. This is a calculated field populated as a result of the pallet foot print times the stack height of the location.

10 In the Options section, specify this information:

Pick Sequence
A numeric value that represents the order in which this location is picked within the zone.

PutAway Group
This user-defined field is taken into account to find an empty put-away location after primary locations or locations with existing inventory were considered. It allows you to combine groups of

similar items that are in the warehouse based on the way you set up the put-away group. When choosing a storage location, the item is checked by the system to determine if the item belongs to a put-away group. If it does, the location(s) tagged with the same group name are checked, and the appropriate bin location for putaway is found.

11 Click **Create Working List**.

12 In the Question modal, click **Yes** or **No**. The message provides this information:

- An example of your format is presented: `New Bin Locations will be similar to the following format: "TESTAAA1"`
- The expected record count of new bins you are creating is presented: `With the ranges set, you will be creating the following number of new bins: 64`
- This message is presented: `Large Bin Location Masks/Ranges will take awhile to process. Would you like to proceed with the Create Working List processing?` If you want to make changes to your settings, click **No** to return to the settings page. If you approve of this format and bins number, click **Yes**.

13 If you clicked Yes, the **Working List Status** page is displayed.

A message notifies you that the list is processing. Depending on the size of your list, the processing may take some time. You can go and do other work, or stay on this page. Click Search to refresh the status. When creation of the list is completed, review the information presented; such as Bin Location Sample, End Date/Time, and Record Count. You can also view the settings used to create the locations.

14 Decide what to do with your list. In the toolbar, you can select from these actions:

- **Create Bin Locations**: If you approve of the list, click this button.
- **Details**: This option is only visible after the Working List is built. It contains a grid of the bin locations that will be created. You can use the **Bin Location Contains** field to search for a specific location. You can select one or more locations and click **Delete**. This removes those locations from the Working List. The column, **Bin Location Exists**, shows duplicates. You can search for duplicates with the standard grid sorting, then select the record, and click **Delete**. When you approve of the list, you can click **Create Bin Locations** in the toolbar.
- **Delete Working List**: Click to delete the list. After reviewing the list, you may want to start over and create another list with changes to the settings. This option deletes any records in the list of locations and the associated Working List settings.

Note: Only one Working List can be created per user. It is assumed that one administrator would be creating multiple locations at a time. This activity would likely occur during the initial setup.

15 Repeat steps to create additional lists.

Modifying a TWL location record using TWL Web to enable Primary Pick

After your TWL system is live, use these instructions to maintain a location record from TWL Web module.

1 Select **TWL Configuration > Location**.

2 Use the **Search** pane to specify criteria to search for an existing record to maintain.

Note: A wide-open search can adversely affect the quality of the search, may cause timeout errors, and may affect performance. Use the **Search** pane fields to limit the results. For example, specify a **Warehouse Zone** or specify a **Record Limits** value.

3 In the grid, select a predefined record and click the drill down icon.

4 Click **Edit** to access the fields.

5 Specify changes.

Optionally, if this location is to be a primary pick location, select **`Primary Pick`** and additional fields are displayed. Specify this primary pick information:

Product
Specify the item.

Pick Type
Select one of these options:

- **`Full`**: This location stores full cases of the item. Pickers are routed to this location when full case quantities must be picked.
- **`Split`**: This type of location is used when pickers are directed to fill less-than-full case quantities. If you only set up one type of primary location for an item, we recommend you assign a split case location.
- **`Counter`**: This type of location is for selling merchandise directly to customers from the warehouse.
- **`Pallet`**: When split case primary locations are located in areas inaccessible by devices used during pallet picking, this location type is used to store the item. During order dropping, the picking method is selected and pickers are routed to the pallet pick location rather than the split case location.

Replenishment Quantity
Specify a quantity, based on the **Replenish By** unit you select. When the location reaches its minimum quantity, replenishment is scheduled according the value specified here.

Replenish By
Select **`Item Unit`**, **`Case Size`**, or **`Pallet Size`**. These values are the unit and the case and pallet quantities specified in the **TWL Configuration-Item-General** master record. When the location reaches its minimum quantity, replenishment is scheduled according the value specified here.

Maximum Level
The maximum quantity this location can contain.

Minimum Level
The minimum quantity this location can contain.

6 If you are assigning an item that is assigned to another zone, respond to the message: `Do you want to update default zone for item 'nnnnnnnn' from "nn" to "nn"?`

a Select **`Yes`** to update the **TWL Configuration-Item** master record.

b Click **OK** to save the primary pick information.

7 Click **Save**.

If you are removing a record, a message is displayed to confirm your decision.

Setting up a TWL primary pick location using Item setup

Setting up a primary pick location from the **TWL Configuration-Item** master record can only be performed in update mode.

Pick requests are created for the item that is assigned to the request. Use the pick sequence and putaway sequence capabilities in TWL to store multiple items in a bin location.

1 Select **TWL Configuration > Item**.
2 Use the **Search** pane to specify criteria to search for an existing record to maintain.
3 In the grid, select a predefined record and click the drill down icon.
4 Click **Edit** to access the fields.
5 In the **Inventory** section, click **Primary Pick**.
6 Specify one or more locations, as appropriate.
7 Click **Save**.

Setting up TWL alternate locations

Use these instructions to set up a new alternate location record and update or remove an existing record.

1 Select **TWL Configuration > Alternate Location**.
2 Click **New** to access the key fields.
3 In **Company**, the company you are logged into autopopulates the field.
4 In **Warehouse**, the warehouse you specified autopopulates the field.
5 In **Location**, specify a name for the alternate location.
6 In **Warehouse Zone**, select a zone. Select the zone that is used most often for this alternate location. This alternate location can also be used in other zones. Select a warehouse zone that does not allow putaway, otherwise this location is considered by TWL when directed putaway is performed.
7 Click **Save**.
8 Click the **back** arrow to return to the grid.
9 In the grid, select the new alternate location and click the drill down icon to access the master record.
10 Click **Edit**.

11 In the **General** section, specify this information:

Active
Select this option so that the alternate location record is recognized.

Bin Hits
Do not edit, unless you must reset the count to zero. This field records whenever inventory is placed into this location. This number can be used to determine the usage for this location.

12 In **Dimensions**, specify this information:

Height, Width, Depth, Cube
The height, width, and depth of the location, expressed in inches. The cube is calculated from the height, width, and depth.

Minimum Pallets
The minimum number of pallets to be used in this alternate location. The value in this field regulates the size of a pick wave that is assigned to this location. This prevents alternate locations set up to handle large waves from being used for smaller waves.

Maximum Pallets
The maximum number of pallets to be used in this alternate location. The value in this field regulates the size of a pick wave that is assigned to this location. This prevents alternate locations set up to handle small waves from being used for larger waves.

Maximum Weight
The maximum weight of material allowed to be placed within the alternate location.

13 Click **Save**.

See Deleting an alternate location record on page 81

Updating an alternate location record

1 Use the **Search** pane to specify criteria to search for an existing record to maintain.
2 In the grid, select a predefined record and click the drill down icon.
3 Click **Edit** to access the fields.
4 Specify changes.
5 Click **Save**.

Deleting an alternate location record

1 Use the **Search** pane to specify criteria to search for an existing record to maintain.
2 In the grid, select a predefined record.
3 Click **Delete**.

Creating TWL pick sequence records

Pick sequence is typically sorted by zone-aisle-location. You can also set up a product category pick sequence, wherein the sort is refined by product category-zone-aisle-location.

See Setting a warehouse zone pick sequence on page 82

See Setting a location pick sequence on page 82

See Setting a product category pick sequence on page 82

Setting a warehouse zone pick sequence

1. Select **TWL Configuration > Warehouse Zone**.
2. Use the **Search** pane to specify a TWL warehouse and a warehouse zone.
3. In the grid, select the warehouse zone and click the drill down icon to access the master record.
4. Click **Edit**.
5. In **Pick Sequence**, specify a number that represents the rank this zone is to be sorted for picking. Warehouse zone pick sequences must be consecutively numbered and each zone must have a unique number.
6. Select **`Allow Picking`**.
7. Click **Save**.
8. Repeat steps as needed to create or update sequences.

Setting a location pick sequence

1. Select **TWL Configuration > Location**.
2. Use the **Search** pane to specify a TWL warehouse and a location.
3. In the grid, select the location ID and click the drill down icon to access the master record.
4. Click **Edit**.
5. In **Pick Sequence**, specify a number that represents the rank this location is to be sorted for picking. Location pick sequences must be consecutively numbered and each zone must have a unique number.
6. Click **Save**.
7. Repeat steps as needed to create or update sequences.

Setting a product category pick sequence

1. Select **TWL Outbound > Picking > Product Category**.
2. Click **New** to access the key fields.

3 In **Company**, the company you are logged into autopopulates the field.
4 In **Warehouse**, the warehouse you specified autopopulates the field.
5 In **Product Category**, specify the category ID.
6 In **Description**, specify a description.
7 In **Pick Sequence**, specify a number that represents the rank this product category is to be sorted.
8 Optionally, select **`Allow Add`**, to enable pickers to add products with this product category to an order during picking with the RF .
9 Optionally, select **`Allow Change`** to enable pickers to change products with this product category in an order during picking with the RF.
10 Optionally, select **`Restrict Change`** to enable pickers to delete products with this product category in an order during picking with the RF.
11 Click **Save**.
12 Repeat steps as needed to create or update sequences.

Modifying a TWL bin location pick sequence using the RF

1 From the RF **Main Menu**, select **Inventory Control**.
2 elect **Item Maintenance**.
3 Select **Loc Update**.
4 Scan or specify the new bin location to change the pick sequence.
5 In the **Print Label** field, indicate whether to print a location label.
   - If you are not printing labels, proceed to step 7. This field remains the same until you exit this function and specify a different value.
   - To print a location label, select a label format.
6 Select a label printer.

   You can select a different label printer by pressing **Esc+L** [UNIX] or **Alt+L** [Windows].
7 Click **Save**.
8 Repeat steps as needed to create or update additional locations.

Creating barcode cross-references

When performing stock adjustments, you can scan a cross-reference barcode instead of scanning the item number. The cross-reference barcode is replaced with the item number by TWL, if the item is set up in TWL and an item with the same number as the barcode does not exist.

You can set up and maintain barcode cross-references in the system and the TWL Web module. We recommend you initially set up barcode cross-references in **Product Extended Product Cross Reference Setup**. The **Type**, Barcode , is the only type of cross-reference that communicates with TWL.

When you create barcode cross-references in **Product Extended Product Cross Reference Setup**, if the warehouse is a live TWL warehouse, the cross-references are sent immediately to **TWL Configuration-Item-Cross References**. Any cross-references that are created before a live TWL warehouse are sent by **WL Initialize Warehouse Administration** to **TWL Configuration-Item-Cross References**.

If you create a barcode cross-reference in **TWL Configuration-Item-Cross References**, the cross-reference is sent by **WL Transaction Inquiry**. The cross-reference is also sent by the **WL Entry Batch Adjust Inventory Report**, which updates the **Product Extended Product Cross Reference Setup** as a Barcode cross-reference. Because the **WL Entry Batch Adjust Inventory Report** updates are not instant, best practice is to manage barcode cross-references in **Product Extended Product Cross Reference Setup** or **TWL Configuration-Item-Cross References**.

Note: Cross-references set up in **TWL Inbound-Vendor Information-TWL Vendor Setup-Cross Reference**, are sent by **WL Transaction Inquiry** and the **WL Entry Batch Adjust Inventory Report** to **Product Extended Product Cross Reference Setup** as Barcode cross-references. If you, afterwards, cause the cross-reference in **Product Extended Product Cross Reference Setup** to be sent and update TWL again using **WL Initialize Warehouse Administration**, the cross-reference updates **TWL Configuration-Item-Cross References**, and not **TWL Inbound-Vendor Information-TWL Vendor Setup-Cross Reference**.

Creating a barcode cross-reference record in the system

1. Select **Product > Setup > Extended Product Cross Reference**.
2. In the **Search** pane, select the **By Reference** view.
3. Click **New**.
4. In the **General** section, specify this information:

   Product
   Specify your product that directly relates to the barcode product. If you specify a catalog product, you must confirm that the value is correct.

   Type
   Select **`Barcode`**.

   Barcode Reference

   Specify the manufacturer's barcode number for a stock product, nonstock, or a catalog product.

   Unit
   Specify the standard unit for this manufacturer's product.

   Stock Unit
   Specify the stocking unit for the product.

5 Click **Save**.

Creating a cross-reference record from TWL

1 Select **TWL Configuration > Item**.
2 In the **Search** pane, specify a TWL warehouse.
3 In **Item Number**, specify the item to set up a cross reference.
4 In the grid, select a record and click the drill down icon.
5 In the **Inventory** section, click **Cross References**.
6 Click **New**.
7 In **Cross Reference**, specify the code for the cross reference. Typically, this is the vendor's part number.
8 In **Type**, retain the default **`Blank`**.
9 Optionally, as appropriate for this item, specify this information:
   - **Unit of Measure**
   - **Box Quantity**
   - **Case Quantity**
   - **Pallet Quantity**
   - **Stacking Height**
10 Click **OK**.

Chapter 6: Setting up the RF unit

These instructions provide information relative to setting up Radio Frequency (RF) units. Much of your setup is performed from the RF unit and is based on your specific unit. You must discuss this implementation with your Infor business consultant before proceeding.

About the Radio Frequency unit

TWL Web module works in tandem with one or more Radio Frequency (RF) units. The RF data communication unit consists of a keypad, screen, and a scanner.

The RF unit sends and receives data on a prescribed radio frequency using electronic equipment strategically located in your warehouse.

During most tasks you are performing with the RF, TWL works in the background. TWL provides several edit checks verifying transactions for accuracy and directing movements to reduce wasted traveling, searching, and misdirection.

Logging into the TWL RF system

Log into the TWL RF system with your assigned employee number and password. To cancel the login, specify `0` in the **Employee** field and press **Enter**, or press **F4** to exit.

General navigation

The main menu is displayed after you successfully log into the system.

You can access the functions for which you have security. Each of the **Main Menu** screens provide access to additional menus specific to the task. Use these functions to navigate within the TWL RF system:

- To return to the previous menu, press **X**. This function only works when you are navigating between the main menu, a receiving menu, a system inquiry menu, or any of their sub-menus. You must the back button in the RF browser to return to the previous menu when you are using a function where data is present.
- Specify **`Yes`**, and the RF takes you back to the last menu that displayed, so you can navigate to other functions from there. To find defined function keys, press **?** from the main menu.
- Press **F13** or **Shift+F3** from any RF function to view the field name and program you are using.

  Note: These keys may be defined for other purposes on some RF units.
- Press **Enter** to clear the window and show the menu or function that displayed before you accessed the screen.

Expanded product number

With the RF unit, you can scan and store a 50-character product number, also known as item number. The **Product Detail** lookup and **Inventory Info** screens can show the full item number, using up to three lines of data. However, due to the size of the device, most RF screens can show only 21 or 26 characters. For RF screens with a limited number of characters visible, scroll to the right in the **Item** field to view the rest of the number.

Serial numbers in RF

The serial number entry field on the TWL RF unit allows entry of up to 30 characters. The serial number value is then validated by the **Product Extended Serial Formatting Setup** functionality. Specific characters are removed, resulting in the 20-character, or less, serial number required by Distribution SX.e.

A message is displayed at each of these serial number validation points when there is no **Product Extended Serial Formatting Setup** record set up for that vendor, or when the resulting number is more than 20 characters. The message is: `Serial Number cannot be longer than 20 characters. Please re-enter.` Serial number validation occurs immediately upon entry wherever serial number entry is available in the TWL RF; for example, Receiving, Putaway, Stock adjustment, Stock movements, Picking, Undo picking, Packing, QA items, Modify receipt, Return to stock, Work order. Ensure that your **Product Extended Serial Formatting Setup** records are set up appropriately.

Timeout for locked records

The time that a screen can be open in an RF unit with no activity can be limited. You can use the parameter 7509, RF Timeout Seconds, to control the time that a screen remains open in an RF unit

with no activity. The minimum value for the parameter is 180 seconds, or 3 minutes, with a maximum value of 99999 seconds.

Use this limitation to avoid inventory and bin location records from being locked for an extended period. For example, if the user is temporarily away or has forgotten to exit the screen. Locked records can keep correct updates from occurring when multiple users are picking, counting, and moving stock in the application. By setting the parameter, if a user is on the primary screen and makes no entry for 3 minutes, then the incomplete pick or stock movement is not completed. Then, the user is returned to the previous screen.

RF Utilities

These utilities are specific to the RF.

RF note creation

You can create notes from the RF for all order types that support notes in the system; the exceptions are ASN and packing list receipts. You can create a note on these records:

- Customer order and vendor return from the **Order Picking Pick Selection** browse and **Pick From Label** screen
- Receipt and customer return from the **Stock Receipt All non-closed POs** browse and **Stock Receipt Line Item Selection** screen
- Prebuilt kit and Value Add internal process work order from the **Work Order Selection** browse and **Create Pallet** screen

Note: You cannot use the RF to modify or remove existing system notes or notes created from the RF. The notes are accessible in the system for modification or removal. You cannot create line-level comments from the RF.

Creating a note from the RF

You can create a note from the **Stock Receipt All non-closed POs** browse and **Stock Receipt Line Item Selection** screen.

1. When processing a receipt or order, press **Ctrl+N**.
2. Specify the note.
3. Press **Tab** to access the fields on the bottom of the screen.
4. To change the required and print defaults, press **Enter**. To access the **Prt** field, press **Tab**. To clear the field, press the **Spacebar**.
5. Press **Tab** to navigate to the **OK** control when the note is complete.
6. Press **Enter** to continue processing the order.

F12 item lookup

Pressing **F12** from an **Item** field shows the search. Specifying up to five keywords starts the search mechanism. The results of the search show in a list. Press **Enter** to select an item and populate the **Item** field.

1. From any **Item** field on any RF screen, press **F12**.
2. Specify a keyword and press **Enter**.
3. Specify up to four additional keywords to narrow the results and press **Enter** to move to the next field.

   Note: Qualifying records must match all the keywords you specify.
4. A list of matching records is displayed. Use the **arrow** keys to scroll through the list and scroll to the right to view the item's descriptions.
5. To select an item, place the cursor on the item and press **Enter**.
6. To end the lookup session, press **F4**.

Language options

Optionally, you can set up an alternate language. Only the French language pack is supported as an alternate language in the TWL RF unit.

Setting up the RF French script

Additional information about scripts is available.

See the *Infor Distribution SX.e Administration Guide*.

1. Copy the script `rfclient.launch` to `rfclient.french.launch`.
2. Add `-lng french` to the last line of the script, and save the script.

RF unit reports

Standard reports can be run from the RF unit. For both CloudSuite Distribution and on-premises Distribution SX.e, when the report is initiated from the RF, that request creates an SASB run record in the system. The run record is sent to **Report Scheduler**. The **Report Scheduler** uses the record to run and print the report.

This table lists the standard RF reports.

Report	Acronym
Packing List by Carton	twlrrf-rptpackctn
Packing List by Carton Sequence	twlrrf-rptpackctnseq
Packing List and Summary by Order	twlrrf-rptpackord
Packing List by Pallet	twlrrf-rptpackplt
Packing List by Wave	twlrrf-rptpackwave
Work Order Report	twlrrf-rptworkorder
Bill of Lading Report	twlrrf-rptbol
Manifest	twlrrf-rptmanifest
Pick Ticket Report	twlrrf-rptgenpick

Note: If necessary, these reports can be run manually from **TWL Outbound-Reports-Outbound Reports**.

You must set up the printer, that the RF unit prints these reports to, in **SA Printer Setup**.

To limit the list of printers that are shown to RF users, we recommend you also set up a printer group in **SA Printer Group Setup**. Set up a printer group named <company>-<warehouse>; for example, “5000-twl”. Assign the printers that you want users to see in that group.

If you set up a printer group for company-warehouse, and do not assign printers, then the RF user’s **Choose Printer** screen is empty.

The **TWL Outbound-AutoDrop-Auto Drop Enable** specifies a printer for the pick ticket because the regular order drop process requires a printer. The printers specified for both the **TWL Outbound-AutoDrop-Auto Drop Enable-Auto Drop Setup-Printer** and the **TWL Outbound-Order Management-Order Drop Manager-Drop-Select Printer** must be set up first in **SA Printer Setup**. This is important if your Order Drop Pick Ticket is running a report based on parameters 0025, Pick Ticket/Label Program, and 2025, Pick Ticket/Label Print.

If you are using TWL in the cloud, the system automatically determines the available administrative user to send the RF report request to for **Report Scheduler**. No specific setup is required to enable RF report printing for the cloud.

Additional information about configuring user access is available.

See the *Infor CloudSuite Distribution Configuration Guide*.

Chapter 7: Setting up EOD processing

Optionally, you can set up end-of-day (EOD) processing for the TWL application.

About EOD processing

End-of-day (EOD) processing is a routine that can perform these tasks:

- Maintain the age of data that is stored in the TWL files
- Calculate inventory class by velocity
- Schedule cycle counts
- Clean up system log files
- Create the item history files

EOD processing is controlled by **Report Scheduler** in the system, in conjunction with the TWL integration.

All output files are sent to the log directory specified in **Report Scheduler-Queue Setup**. These files are prefixed with **`twl`**, and, when applicable, the file name includes the warehouse number and the date. The primary output for the EOD run is the standard report scheduler log file. The automated execution of TWL EOD processes through the Report Scheduler backs up and cleans log files. The TWL temp directory EOD files are removed after 7 days

Valid output files for TWL EOD

These files are valid:

- Standard Report Scheduler output

  `twleod.log`
- Used for the ABC stratification by TWL EOD

  `twlabc.log`
- File for the data removed through File Retention in TWL EOD

  `twl<tablename>_del.log.<cono>.<whse>`
- Summary transaction reports that are created by TWL EOD

  `twld_trans_<YYMMDD>.rpt.<cono>.<whse>`

  `twlr_trans_<YYMMDD>.rpt.<cono>.<whse>`

If the TWL EOD output file already exists from a previous EOD run, the file is renamed `.old`. The Report Scheduler also executes RDCLEAN, which removes these TWL temp directory EOD files after 7 days. To use or analyze these files, you must copy them to another location.

End-of-Day Configuration options

You have several options for generating and managing the logs, report files, and text files available in the log directory. The **TWL Configuration-End of Day-End of Day Configuration** provides these options:

- **Create Item History**: This option enables the creation of Item History records during the execution of the EOD process.
- **Enable File Retention Cleanup**: Each file that is passed between the system and TWL is defined in the file retention system. Although we recommend you remove old data from all of your TWL warehouses, you can retain the data in specific warehouses, such as a test warehouse.
- **Create Cycle Counts**: This option controls the cycle count cleanup based on warehouse and schedules daily cycle counts. The EOD process uses the settings in **TWL Execution-Cycle Count-Setup** to configure count rotations.

  You can assign a list of product categories that are excluded from the EOD process when the process schedules the daily cycle count. If you stratify inventory by product, then all products in the warehouse are compared with the list of excluded product categories.

  If you verify receipt quantities of new products, then you can use parameter 6262, Update Item Count if New Receipt, to exclude these products from the next cycle count run that EOD creates. The **Last Count** field is updated with the current date on the **TWL Configuration-Item-Miscellaneous** record only if any type of count is completed for all locations within a 48-hour time period. If prior receipts were recorded for the product, the item is not included on the next day's cycle count.
- **Create Discrepancy Counts**: This option contains logic that automatically creates cycle count waves for all discrepancies that occur in the selected company and warehouse up to one week prior to generating the EOD process. When the cycle count wave is generated, the discrepancies are removed. This logic is independent of the standard EOD cycle count ABC classification of products or locations.

  You can also manually select and create discrepancy cycle count waves with settings in **TWL Execution-Inventory Discrepancy**.
- **Clean Item Allocations**: Item allocation records occur when a pick request is not completely processed because the database is disconnected from the RF unit. If these records are not cleaned up, then they continue to reserve available inventory until they are removed from the system.

  Select this option to have item allocation records, that are associated with orders that are completely shipped, looked for. If the item allocation record is associated with a work order, and the work order has been shipped or removed, then the item allocation records are removed.
- **Create File Transaction Reports**: The report lists who does what kind of transaction and how often. Because these reports are created and accumulate in the log directory, you can manually remove or move them to an archive. Only run these reports for your live warehouses.
- **Clean Untied Comments**: When orders are purged through the EOD function, you can remove the associated comments by selecting this option for the appropriate warehouse.

About file retention

44This function removes inactive files as part of the EOD clean-up procedure to improve system performance. This function does not archive records.

File retention can be set up in years, months, weeks, or days. This table shows an example of a file-retention schedule:

File	Retention Period	Time Frame
Auto Drop	6	Months
Closed Cycle Counts	1	Years
Cycle Count History	4	Years
Inventory Discrepancies	6	Years
Item History	2	Years
Manifests	2	Years
Orders	2	Years
R/T [receipt transaction]	2	Years
Transactions	4	Years

The base file retention for Cycle Count History is 4 years. To remove records during the EOD process past that date, use the **Enable File Retention Cleanup** option.

Any completed Work Center work orders are removed from Work Center tables during the EOD File Retention Cleanup process. The parent sales orders are removed from the `ORDHDR` table.

Setting up TWL EOD processing

1 elect **TWL Configuration > End of Day > End of Day Configuration**.
2 Use the **Search** pane to specify a TWL warehouse.
3 In the grid, select a record and click the drill down icon to access the master record.
4 Click **Edit**.
5 Select **`Enable Item History Creation`**.
6 Optionally, clear the options for cleanup and create that you do not want to run.
7 Click **Save**.

EOD processing is executed automatically daily. Access the log directory specified in **Report Scheduler-Queue Setup** to view output files.

Optionally, you can click **New** to create the initial warehouse level record to control what EOD processes.

Viewing item history creation dates

1. Select **TWL Configuration > End of Day > Setup**.
2. Use the **Search** pane to specify a TWL warehouse.
3. In the toolbar, select **Item History Created**.
4. View a list of creation dates for EOD item history.
5. Click the **back** arrow to return to the grid.

Creating a schedule for file retention

Use these instructions to adjust the schedule for files included for file retention. The retention period that is established in this task determines how long the files are retained in the log directory. File groupings include these groupings:

- Auto Drop
- Closed Cycle Counts
- Cycle Count History
- Inventory Discrepancies
- Item History
- Manifests
- Orders
- R/T [receipt transactions]
- Transactions

1. Select **TWL Configuration > End of Day > File Retention**.
2. Click **Search**.
3. In the grid, select a grouping.
4. Click **Edit**.
5. Specify this information:

   Active
   Select this option to activate processing for this file grouping.

   Retention Period
   Specify a number value in conjunction with the Time Frame. For example, 6 Months or 2 Weeks.

   Time Frame

   Select a time frame. These values are valid:

   - Days
   - Weeks
   - Months
   - Years

   Last Updated
   Shows the last updated date for the retention period.

Transaction User
Shows the initials of the operator who last updated the retention period.

6 Click **Save**.

Chapter 8: Setting up lots

If your company uses lot numbers for products, you must set up the system and related product records to accommodate lot numbers. Use this information to set up the TWL module to handle lots. We recommend you set up the records in the sequence the procedures are presented.

About TWL and lots

Lots are groups of similar items manufactured and warehoused with unique identification numbers. Because slight variations occur from one lot to another in the manufacturing process, lot numbers provide the means to track items through the supply chain.

For example, the fasteners that are used to assemble vehicles are tracked with lot numbers. If a defect is discovered, then the vehicles that were assembled with the defective fasteners can be identified and repaired.

Lots differ from serial numbers because each lot record contains several units per record, whereas each serial number is a record.

When lots are received, a unique **Product Extended Lot Number Setup** record is created by the system. A lot number is assigned to each lot, along with the correct quantity that is stored in that lot. When the product is sold, quantities from the lot are removed until the quantity left in the lot is zero. The **Product Lot Report** includes information from **Product Extended Lot Number Setup** and can provide an audit trail of the history of each lot. Additional lot data can be applied to the lot record in **Product Extended Lot Number Setup** to help track lot products. Data such as country of origin, manufacturing number and case quantity can be added. This information is printed on product and shipment labels so it can be identified both in the warehouse and at the job site.

When lot items are released to TWL, the **TWL Configuration-Item** master record establishes preset defaults. TWL uses locations to distinguish different lots. **SA Administrator Options** settings also determine into which lots you can receive products.

Lot numbers are applied or captured in TWL when the product or item is received. In the **Lot Number** RF screen, the operator is notified that the product is a lot item. If the lot number is not automatically generated, then the operator specifies the lot number. If the product has an expiration date, then, in the **Capture the Date RF** screen, the operator specifies the expiration date.

Depending upon **SA Administrator Options** settings, during picking, the first available lot is found by TWL. This is based on the assigned location type that contains the largest quantity of available stock. If the location type is not specified, then lots are selected alphabetically by TWL. When the product

has an expiration date, the date is checked by TWL to verify the date is greater than the date you drop the order.

In **TWL Configuration-Item**, you can access the **Lot** section for additional information and settings. You can click **Show More** to access information regarding the expiration date and usage parameters.

See Setting up a TWL lot product on page 98.

Setting the TWL lot product designation

1. Select **Product > Setup > Warehouse Product**.
2. In the **Search** pane, specify a TWL warehouse.
3. In the grid, select a record and click the drill down icon.
4. Click **Edit**.
5. In the **General** view, in the **General** section, in **Control**, select **`Lot`**.
6. Click **Save**.

See information about setting up serial and lot products and adding a new product record in the online help.

Setting the TWL lot product defaults

1. Select **System Administrator > Administration > Administrator Options > Products > Defaults**.
2. In the **Receiving** section, in **Receive Lots Into**, select **`Any Lot`**. Use this option to create and receive into one of these lots:
   - a new lot
   - an existing open lot
   - a closed lot
3. Clear the **`Allow Auto Assign Lots`** option. Use this option to prevent the automatic assignment of lot numbers during receiving.
4. Click **Save**.

Setting the TWL lot product sales order defaults

Set **SA Administrator Options** defaults for the lot product for sales orders.

1. Select **System Administrator > Administration > Administrator Options > Documents > Sales Orders > Entry Settings**.

2 In the **Workflow** section, select **`Force Lot/Serial Input`**. This setting offsets the primary drop criteria and enables the oldest lot to be picked.

With TWL, you must enter sales orders with one lot per line to communicate the pick information correctly.

3 Click **Save**.

Setting up a TWL lot product

1 Select **TWL Configuration > Item**.
2 Use the **Search** pane to specify the TWL warehouse, and specify **`lot`** in the **Keyword** field.
3 In the grid, select a predefined record and click the drill down icon.
4 In the **Lot** section, ensure the **`Lot`** option is selected. This lot control is already selected by the lot control setting in **Product Warehouse Product Setup**.
5 Click **Edit** to access the fields.
6 Optionally, select an option:

Same Lot
When selected, TWL attempts to fill orders from a single lot. If this is not possible, the order or line is zero shipped.

Shelf Life
When selected, additional fields are available. Specify this information for products that have a limited shelf life. After an expiration date is reached, operators should not sell from the lot.

- **Receiving Threshold**: Specify the number of days before the receiving expiration date. That is, the period before a warning message is displayed during receiving. If the expiration date is going to be reached within the expiration date plus the receiving threshold days, then a warning is shown to the operator and the status is set to Inactive (I).
- **Shipping Threshold**: Currently not in use.
- **Days**: Specify the number of days used to calculate the expiration date during receiving, when using the Receipt date or Manufacture date option.
- **Calculate Expiration Date From**: The expiration date is calculated during receiving based on one of these settings:
  - **`Expiration date`**: Each lot can have an expiration date. Select this setting to use the last inventory record of this product's and lot's expiration date; otherwise the RF operator is prompted for the Expiration date.
  - **`Manufacture date`**: Select this setting to use the inventory record for the product's and lot's expiration date; otherwise the RF operator is prompted for the Manufacture date. The value stored in the **Expiration date** shown in **TWL Configuration-Inventory Detail-Inventory Status Information** equals the manufacture date that was specified during receiving, plus the number of shelf life days specified in the **Days** field.
  - **`Receipt date`**: The value stored in the **Expiration date** equals today's receipt date, plus the number of shelf life days specified in the **Days** field.
- **Unavailable At**: The unavailable at date is calculated during receiving based on one of these settings:

- **`Expiration date`**: Currently not in use.
- **`Shipping Threshold`**: Currently not in use.

7 Click **Save**.

Setting up TWL system parameters for a lot product

Lot numbers are captured and storage locations are assigned when the item is received. Additionally, lot data can be applied to the lot record. Data such as country of origin, manufacturing number and case quantity can be added.

See Parameters on page 116.

1 Select **TWL Administration > System Parameter**.
2 Use the **Search** pane to specify the TWL warehouse, and specify the parameter in the **Parameter** field, and click **Search**.
3 In the grid, select the record and click the drill down icon.
4 In **Value**, select the appropriate value.
5 Click **Save**.

Chapter 9: Setting up a TWL work center

If your company uses kit fabrication, and this fabrication takes place in a TWL warehouse, then you must set up a kit work center.

Setting up a kit work center

To assemble prebuilt kits and VA work orders with Internal (IT) processing, set up a work center.

1. Select **TWL Administration > System Parameter**.
2. Accept the default for these parameters:
   - Parameter 17, Work Center Depot Control, enables an employee to view work orders that are not for their assigned department.
   - Parameter 19, Work Center Labels, sets the default response for printing labels in the kit build department.
   - Parameter 21, Work Center Receiving Method, receives products in the kit build department and sets the screen default.
   - Parameter 22, Work Center Picked Status, enables in-process work orders for a kit to be undropped from **Order Drop Manager**. Inventory adjustments can be made afterward as needed.
   - Parameter 1022, Kit Build Adjustment Code, specifies what adjustment code should be used when building a kit.
   - Parameter 1075, Kit Quantity Posting, is used to determine whether to update a kit in complete units or as a fractional value.
   - Parameter 1083, Work Order Prompt, shows a message telling the user that the order is a work order.
3. For parameter 2054, Prebuilt Kit Without Inventory, select **`Zero Ship Kit`** or **`Skip Order`**. Parameter 2054 determines if you can drop a prebuilt kit if a required component, that is defined in **KP Component Setup**, is not in stock in TWL.
4. For parameter 7504, Kit Weight/Cube, select **`Parent Kit`** or **`Sum of Components`**. Parameter 7504 determines how the weight and cube of a build-on-demand kit are calculated when orders are dropped. You can use the weight and cube of the kit product record or the sum of the weight and volume of the kit components.
5. Click **Save**.
6. Select **TWL Configuration > Warehouse Zone**. Set up a zone for the kit build department, and assign the first and last aisles.

7 Click **Save**.

8 Select **TWL Configuration > Location**. Set up locations for staging kit build department products. Use identifying names, such as WCIN, WCOUT, and WCPICK and specify the zone you previously set up. In the **Location Attributes** section, the **Location Type** should be set to **`Stage`**.

9 Click **Save**.

10 Select **TWL Administration > Department**. Set up a work center as a department.

11 Click **Save**.

12 Select **TWL Administration > RF Employee**. Set up RF employee records and assign employees to the kit build department and warehouse zone you previously set up. Specify the kit build department number on the RF Employee master record so operators can access the RF **Work Center** menu.

13 Click **Save**.

See *Infor Distribution SX.e Total Warehouse Logistics User Guide for Picking, Packing, Shipping, Kitting*.

Chapter 10: Setting up TWL Receiving Only

For your initial implementation of TWL, you may choose to implement an intermediate short-term solution. That is, you can set up only the receiving portion of TWL, rather than implementing the entire TWL system. With this phased approach, personnel can become accustomed to equipment and workflow; but, this functionality is not intended to be a long-term solution to processing incoming receipts.

Note: You must discuss this implementation with your Infor business consultant before proceeding.

About implementing the TWL Receiving-Only function

If you implement a TWL Receiving-Only warehouse in the system environment, then you have limited use of TWL. You cannot access all of the TWL functionality. The implementation permits important updates to several system functions. For example, you can perform these tasks:

- Process inbound inventory on purchase orders, warehouse transfers, and customer returns
- Have Counter Sale orders go to shipped stage
- Use the alternate warehouse function in **Sales Order Entry**
- Pick and stage allocated lines on Ship Complete orders
- Create manual ties between a **Sales Order Entry** line and a purchase order.
- You are not required to make manual adjustments to warehouse Transfer exceptions.
- You can use the radio frequency (RF) system to verify transactions with edit checks. These checks improve the quality of your database information and establish operational consistency with a set of parameters.

Setup overview

All of the setups that are required to implement the entire TWL system are also required to run the TWL Receiving-Only module. The exceptions are bin location setups and assignments. Because receipts are performed to pallets on the dock, no other location setup is required.

In the **Product Warehouse Description Setup** record, the **WL Live** setting differentiates a TWL Receiving-Only warehouse from a standard system warehouse. The **WL Location** setting defines communication variables that enable data sharing between the system and TWL.

The same records that are required by the standard system, such as **Product Setup** and **Product Warehouse Product Setup**, are also required to perform receiving in the TWL warehouse. **WL Initialize Warehouse Administration** sends the system table values to populate corresponding TWL records.

When you are ready to go live, existing receiving transactions are retained for historical purposes and other data is removed accordingly.

Processing overview

With a TWL Receiving-Only setup, you can create purchase orders, warehouse transfers, and customer return merchandise orders in the system according to normal procedures. When you print the document, TWL is notified that inbound inventory is forthcoming. In TWL, the system document number is prefixed with P, W, or O and is referred to as a receipt transaction (RT). All products are received by TWL as nonstock products because TWL does not validate items for Receiving-Only warehouses.

When you finish receiving items and close the RT, the data is sent to the system for processing with the **WL Entry Batch Receiving Report**. If a transaction occurs that is not supported by this functionality, then an open record remains in **WL Transaction Inquiry**. You must resolve the open record before going live on the entire TWL system.

Product Warehouse Product Setup inventory quantities are increased when the **WL Entry Batch Receiving Report** is run, and other relevant records are updated accordingly. Then, you can use the standard system functions to perform order processing and inventory control tasks.

Data flow

A designated file structure is used by TWL and the system to exchange data. The TWL environment location, specified on the warehouse record, controls the frequency that data communications occur.

With a TWL Receiving-Only setup, you can monitor, resubmit, or change the status of a communication in **WL Transaction Inquiry**. Review transactions frequently to ensure data is transferring between the system and TWL correctly.

If data does not transfer correctly, then check the **Report Scheduler** to ensure communication records were created. The transaction was not sent to TWL if there is not a **WL Transaction Inquiry** record in one of these statuses:

- Work In Process (WIP)
- Active
- Error
- Inactive

Receipt status

With a TWL Receiving-Only setup, the **Status** field on the RF **Stock Receipt Line Item Receiving** screen is used by TWL to separate inventory that is available for sale from inventory that is damaged or unavailable for sale. When you receive goods that are available for sale, clear the **Status** field. The quantity received value updates the **Product Warehouse Product Setup** on-hand balance, which is available for sale.

If the inventory receipt is damaged or unavailable for sale, then assigning a return adjustment code to the **Status** field creates updates in these functions:

- **Product Unavailable Inventory Entry**
- the unavailable quantity in **Product Warehouse Product Setup**

Return adjustment codes are set up in the **SA Table Code Value Setup-Return Adjust Reason** table and **WL Initialize Warehouse Administration** sends the codes to TWL.

Customer returns

With a TWLTWL Receiving-Only setup, when a customer service representative (CSR) creates a Return Merchandise (RM) order in the system, a return reason is assigned during the workflow. In TWL, the RM orders follow the same workflow as purchase orders and warehouse transfers because the returned goods are brought into the warehouse. The RM order is sent to TWL when you print the order. The order is displayed in the receipt file to be received into the warehouse.

You can set up TWL to send the return reason code to populate the **Status** field. Select **`D – Default from Host`** for parameter 6255, Return RT Processing, in **TWL Administration-System Parameter**.

Implementing the TWL Receiving-Only function

Some special settings, considerations, or instructions are required for implementing a TWL Receiving-Only setup. These settings and instructions are noted in this documentation:

- Setting up a TWL Receiving-Only WL Location on page 105
- Setting up TWL Receiving-Only WL Options on page 105
- Setting up a TWL Receiving-Only warehouse description on page 106
- Setting up a TWL Receiving-Only warehouse products on page 106
- Setting up a TWL Receiving-Only company on page 107
- Setting up a TWL Receiving-Only warehouse on page 107
- Populating TWL records with system data on page 107
- Processing purchase and transfer receipts in TWL on page 108
- Processing a customer return in TWL on page 108

If no special settings are noted, you can use the typical procedures for setting up the functions of the TWL Web module and the Distribution SX.e system. For example, no special settings are needed for setting up TWL departments for a TWL Receiving-Only implementation, so use the instructions for setting up TWL departments. We recommend you set up the functions in the sequence the procedures are presented.

See TWL Web Setup on page 19

See Setting up Distribution SX.e on page 47

If you have questions, then discuss this implementation with your Infor business consultant before proceeding.

Setting up a TWL Receiving-Only WL Location

Each TWL warehouse must be associated with a location name. The location name identifies the connection that links a warehouse to the TWL system. Therefore, you must associate the location record with the **Product Warehouse Description Setup** record of the TWL warehouse.

Scripts are no longer used in the TWL module. The value in the **WL Locations** field in **SA Administration-Administrator Options-Logistics-WL Locations** is used to activate the TWL warehouse in a subsequent step in the **Product Warehouse Description Setup**.

So, in **System Administrator-Administration-Administrator Options-Logistics- WL Locations**, ensure that you specify your TWL Receiving-Only warehouse in the **WL Locations** field.

Setting up TWL Receiving-Only WL Options

You must define settings for transactions between the system and TWL. After settings are established, changing the selections with pending open orders in the system may cause undesirable and irreversible situations that could disrupt your system.

In **System Administrator > Administration > Administrator Options > Logistics > WL Options**, discuss each option with your Infor business consultant before you make selections to ensure you maximize your TWL system.

The warehouse zone that is specified in the **New Part Default Zone** field, in the **WL Options** page, is assigned to items being received in TWL for the first time. This warehouse zone is also assigned to the **Warehouse Zone** field in **Product Warehouse Product Setup-Warehouse Logistics** records for items received in the TWL warehouse. The **Warehouse Logistics** view is displayed only for TWL warehouses.

Setting up a TWL Receiving-Only warehouse description

Each TWL warehouse must be associated with a location name. The location name identifies that the warehouse connects to the TWL system. Therefore, you must associate the location record with the **Product Warehouse Description Setup** record of the TWL warehouse. This task updates TWL, so we recommend that you perform this task while no other processing is occurring. We recommend performing this task during the weekend.

The TWL warehouse name must be identical to the system record.

1. Select **Product > Setup > Warehouse Descriptions > Warehouse Description**.
2. In the **General** view, in the **Settings** section, in **WL Location**, specify the connection specified in **SA Administrator Options-Logistics-WL Locations-WL Locations**. For example, **`TWL`**.
3. In **WL Live**, select **`Receiving Only`** to initiate the master file setup interfaces from **WL Administration Initialize Warehouse** to update TWL while no other processing is occurring. We recommend performing this task during the weekend.
4. Complete the record as specified in the typical procedures for setting up this function.

Setting up a TWL Receiving-Only warehouse products

When you implement TWL, you must create item [product] records initially in the system with these setups:

- **Product Setup**
- **Product Catalog Setup**
- **Product Warehouse Product Setup**
- **Product Warehouse Description Setup**

Then, run **WL Initialize Warehouse Administration** to release the records to TWL.

You must consider item [product] records early on when planning your layout and locations.

- See Location and TWL item records on page 71.
- See information about adding a new product record in the online help.

Be aware that a TWL Receiving-Only warehouse ignores the **Warehouse Manager** setting in **Product Warehouse Product Setup-General-Location**. This field is cleared when the warehouse goes live on TWL.

In **Product Warehouse Product Setup-Warehouse Logistics-Location**, the **Warehouse Zone** field is autopopulated by the setting in the **New Part Default Zone** field in **System Administrator-Administration-Administrator Options-Logistics-WL Options**.

Setting up a TWL Receiving-Only company

You must set up TWL company information early because a valid company is required when you set up other TWL records. Similar to the system **SA Company Setup** record, use the **TWL Administration-Company Setup** to specify company-related settings for the TWL module.

The company information enables various processing methods and workflows in the warehouses that are assigned to the company. The TWL company number must match a valid system company number.

Setting up a TWL Receiving-Only warehouse

A valid warehouse is required when you set up TWL other records. You may have one or more TWL-controlled warehouses. You can set up unique processing flows for each specific company-warehouse combination.

A TWL warehouse record is similar to the system **Product Warehouse Description Setup** record in the system. The TWL warehouse name must be identical to the **Product Warehouse Description Setup** record.

If you are setting up TWL facility records before your system going live, then you can set up a **TWL Configuration-Warehouse** master record with minimal information. After your TWL warehouse is live, release warehouse records from the system with the **WL Initialize Warehouse Administration** function to add the detail.

In the **TWL Configuration-Warehouse** master record, retain the default settings for the **Receiving Zone** and **Damaged Goods Zone** fields.

Populating TWL records with system data

WL Initialize Warehouse Administration is used by the system to create the data communication files used to transfer the data from the system into TWL.

Running **WL Initialize Warehouse Administration** populates TWL with records, including these records:

- product
- warehouse
- cross-reference
- vendor
- table value

A message is displayed: `Processing has been set to run in the background. You will now be taken to the WL Transaction Summary Report which can be executed to monitor the status of this initial load of data. Canceling here does not stop processing`.

Click **Cancel**; otherwise, you are transferred to the **WL Transaction Summary Report-Reports Main** page.

If you have questions, discuss this initialization with your Infor business consultant before proceeding.

Processing purchase and transfer receipts in TWL

In TWL, the system document number is prefixed with P, W, or O and is referred to as a receipt transaction (RT). All products are received by TWL as non-stock products because TWL does not validate items for Receiving-Only warehouses.

1. In the system, print the purchase order or warehouse transfer to notify TWL to expect an inventory receipt.

   You can print a single receiving document if you print immediately after creating an order in **Purchase Order Entry** and **Transfer Entry**. You can also print multiple receiving documents using the batch function to notify TWL of the receipts to expect. Use **Purchase Entry Processing Print POs Report** and **Transfer Entry Print Warehouse Transfer Report**.
2. Using the RF, process the receipts into the warehouse.
3. In the system, generate **WL Entry Batch Receiving Report**.

   In the system, the purchase order remains in Stage 2 (Printed) until **WL Entry Batch ReceivingReport** processes the active RCV communications and initiates the updating functions. When the updating functions are initiated, the purchase order stage is updated to Stage 5 (Received).

   WL Entry Batch Receiving Report launches the selected receiving functions to update the inventory records for one warehouse at a time.

   WL Entry Batch Receiving Report processes active RCV communications.

See *Infor Distribution SX.e Total Warehouse Logistics User Guide for Receiving and Putting Away*.

Processing a customer return in TWL

In TWL, the system document number is prefixed with P, W, or O and is referred to as a receipt transaction (RT). All products are received by TWL as nonstock products because TWL does not validate items for Receiving-Only warehouses.

Items that are purchased by customers and later returned are processed as inventory coming into the warehouse.

1. In the system, print the Return Merchandise order to notify TWL to expect an inventory receipt.

   You can print a single receiving document if you print immediately after creating an order in **Sales Order Entry**. You can also print multiple receiving documents using the batch function to notify TWL of the receipts to expect. Use **Sales Entry Pick Tickets Report**.
2. From the RF, receive the inventory and close the receipt transaction (RT).

The status of returned inventory determines how inventory is routed from the receiving dock. The **Status** field defaults to the parameter 6255, Return RT Processing, setting. Parameter 1071, Return RT Processing, determines if you can override the default. If the field is blank, the inventory is returned to stock and can be allocated to orders.

3 In the system, generate the **WL Entry Batch Shipping Report** to synchronize customer returns.

4 In the system, invoice the order with the **Sales Entry Invoice Processing Report** to adjust the customer's account and increase the inventory quantity.

See *Infor Distribution SX.e Total Warehouse Logistics User Guide for Receiving and Putting Away*.

Chapter 11: Ongoing system administration

Communications in TWL occur frequently. Most of the communications that pass between the system and TWL are immediate and do not require intervention. However, because of system failures or operator error, you must intervene. Review the TWL data communications on a daily basis. Ensure transactions are completed promptly, processing flaws are corrected, and inventory inaccuracies are kept to a minimum.

WL Transaction Inquiry is similar to other system inquiries and shows records according to the filter criteria you select.

See an overview for **WL Transaction Inquiry** in the online help.

Reviewing TWL data communications

1. Select **Warehouse Logistics > Inquiry > Transaction**.
2. In **Advanced Search**, in **Warehouse**, select your TWL warehouse.
3. Specify additional criteria to filter for specific transactions.
4. Click **Search**.
5. Records relevant to your search criteria are displayed in the grid. Optionally, perform these tasks on the records:
   - Review records in the **Order Data**, **Master Data**, and **Returns PO** views.
   - Drill down to review record data.

Changing the status of a communication

You can change process types with an error status to Active. You can change a vendor return status to active. You can change process types with a work-in-process status to inactive or active, which enables them to be resubmitted from the originating function.

If you change the status on a WLET, which is a master type record, then the appropriate WLEM record is also changed. You cannot modify the status at the detail level. If the WLET is not a master type record, then the attached records are inactivated. Attached records include:

- WLEH
- WLEL
- WLELS
- WLELK

You can update the **Status** field to **`Active`** if the status is in one of these states:

- Open
- Error
- Vendor returns
- Work in Process

After an error is researched and fixed, the transmission can be set to active to resend, or inactive for **WL Delete Transmissions Report** to remove.

You can also change Work in Process to inactive if the information is already in TWL or the system, and you do not require a resend.

If you are updating an error, a question may be displayed asking whether to resubmit the error communication. Select **`Yes`** to resubmit the error. The corresponding batch processing report processes the information.

1. Select **Warehouse Logistics > Inquiry > Transaction**.
2. In **Advanced Search**, in **Warehouse**, select your TWL warehouse.
3. In **Status**, select a status type appropriate to help you find the transaction.
4. Specify additional criteria to filter for specific transactions.
5. Click **Search**.
6. In the grid, select the relevant record and, optionally, click **`Activate`** or **`Inactivate`**.
7. Click **Save**.

Purging inactive communications

Run the **WL Delete Transmissions Report** to remove inactive **WL Transaction Inquiry** transactions to maintain your database. Set the **WL Delete Transmissions Report** up as a stored report as necessary.

1. Select **Warehouse Logistics > Reports > WL Reports > Delete Transmissions Report**.
2. Select **New > Stored**.
3. Specify report, printing, and schedule information, and click **Next**.
4. Specify a range, warehouse or product range, to limit the qualifying warehouses, and click **Next**.
5. Specify options. Specify a valid **Warehouse Location**, and click **Next**.

   The **WL Location** is set up in **SA Administrator Options-Logistics-WL Locations** and specified on the **Product Warehouse Description Setup** record. The **WL Location** can be live or not live for the records to be removed.
6. Specify a date in the **Inactive Date** option, and click **Next**.

Driver records that are inactive and dated on or before the specified date are removed.

7 Click **Save** to generate the report summary of the WLET, WLEM, WLEH, WLEL, and WLELS records that were purged.

Resending a synchronize communication

Ensure the system can acknowledge receipt of the communication, then use these instructions to resend a synchronize communication.

1 Select **TWL Administration > Interface > Interface Resend**.

2 In the **Search** pane, specify a TWL warehouse and date ranges, and click **Search**.

You can also specify additional criteria, such as **Transaction Status**, to filter results.

3 In the grid, select an order. To resubmit the order for processing, click **Resend** in the toolbar.

Complete the order in the system through normal processing channels.

Transaction logs

Logs are created to trace issues with the interface between the system and TWL. The .log file is a list of transaction types and their results. The .err file is a more detailed list of the results of the communications. If there are problems with communications, then contact your system administrator or support personnel to view and research these logs.

Appendix A: TWL Web RF Shortcut Keys

This table shows the TWL Web RF shortcut keys and their functions:

Shortcut Key	Action
Down arrow	• **Carton Lookup** Displays all carton lookups • **Location Look up** Highlights any RF function containing a lookup • **Perform Product Lookup** Activates item lookup • **Unit Lookup** Displays all unit lookups
Alt+A	**Add a Note** Creates notes from any applicable Picking and Receiving functions
Alt+L	**Change Zebra Printers** Changes zebra printers in any Set Label Printer menu and menu option in the System Inquiry menu
Alt+N	**View Notes/Comments** View notes and comments from any applicable function
Alt+P	**Change Laser Printers** Reprints receipt labels from any menu
Alt+R or **F6**	**Reprint Label** Changes laser printers in any Set Report Printer menu and menu option in the System Inquiry menu

Shortcut Key	Action
Alt+S	**Skip Pick** Skips a pick in the **Order Picking** screen. You can also press the **Skip Pick** button that is located in the header of the **Order Picking** screen.
Ctrl+A	• **Create X-Ref** Creates cross references from the Stock Receiving data grid. You can also select the barcode icon or highlight the barcode field and press **Enter** • **Add Line Order** Adds a pick to a line item in the **Order Picking Detail** menu
Ctrl+D	**Send Line to Lost Business from Sales Order** Moves the pick to Lost Business. This function is triggered in the **Order Picking Detail** menu.
Ctrl+P	**Change Product on Line Item** Changes pick by selecting a new product. This function is triggered in the **Order Picking Detail**.
F4+**X** or **Back** button	**Back** Navigates back from any menu function and grid **Note:** You can only press **F4** and the **Back** button in the RF browser to navigate back from menus with editable cells
F6	**Item Details** Displays item details from any item lookup with an active row in any grid with an Item column
F7	**Get Staging** Displays the staging menu from any menu screen and menu options in the **Controls** menu
F8	**Store Staging** Access store staging from menu screens and menu options in the **Controls** menu
F9	**Reprint Pack Slip** Reprints pack slips in any **Print Packing Slip** menu and menu option in the **Controls** menu

Press **Enter** to change the edit mode of a cell. If the cell is equipped with control that uses a down arrow, then the control opens when you press **Enter**. Editable cells without controls switch to edit mode automatically when you specify a value or click in the cell. You are not required to press **Enter**.

Appendix B: Troubleshooting

This section provides answers to some common questions you may encounter when working with setup and administration tasks in TWL. Additional information is available by contacting Infor Support.

Resolving a Z Hold or zero-ship hold

`Cause:` Data communication between TWL and the system is automated. When any line on an order or a transfer cannot be shipped because of inaccurate inventory balances between TWL and the system, you must create an exception for the order or transfer. This condition happens if, for example, a picker was not directed to the correct location, or the picker found damaged goods at the location. You can zero-ship the order or transfer, place the order on hold, investigate the exception, make the appropriate adjustment, and reprocess the line.

`Solution:` To resolve the Z Hold, perform these steps:

1. Select **TWL Outbound > Order Management > Order Drop Manager**.
2. Zero ship the order back to the system from TWL.
3. Run the **WL Entry Batch Shipping Report** to move the order to Z Hold, changing the order to the Ordered stage with zero committed against the line. This is system-generated.
4. In **TWL Execution-Cycle Count**, cycle count the item and make necessary adjustments.
5. In the system, open the order and release the order from Z Hold. Use either of these functions to change the **Approval** from **`Z`** to **`Y`** [Yes]:
   - **Sales Credit Release Inquiry**
   - **Sales Order Entry**
     Note: You must have already added the **Approval** field to **Customer Order Settings** using Personalization.
6. In the system, if necessary, allocate the quantity with either of these functions: **Sales Order Entry** or **Product Reallocation Entry**.
7. In the system, use on-demand printing to reprint the order in **Sales Order Entry**. You can also reprint the order by listing that order and running the **Sales Entry Pick Tickets Report** as a **`File`** print.

Appendix C: Parameters

In TWL Web module, you can set parameters to ensure the system is performing according to your operational standards. These parameters are similar to the administrator options in the system. TWL uses parameters based on task type; for example, picking, receiving, or putting away. The parameters are presented by Parameter Type, according to a typical warehouse logistics workflow:

- Picking
- Packing
- Replenishment
- Order Management
- System
- Receiving
- Shipping
- Inventory Control
- Put Away

The name, parameter type, level, value, and description are provided for each parameter. The default for each parameter is identified as [default].

To obtain a hard copy of the parameters, run the System Parameters management report. This report can be sorted by parameter or type. Access the report from **TWL Execution-Reports-Management Reports-TWL System Parameters**.

Picking parameters

In TWL Web module, parameters are set to ensure the system is performing according to your company's operational standards. Your tasks are affected by how your TWL administrator set up system parameters. Ensure your TWL administrator has set these parameters to reflect your needs. For your information, task-related parameters are described in this section. The name, parameter type, level, value, and description are provided for each parameter. The default for each parameter is identified as [default].

Parameter ID: 1016

Name
Cart Picking

Parameter Type
Picking

Level
Global

Value
- Yes: Cart picking is used. [default]
- No: Cart picking is not used.

Description
Cart Picking
Does this warehouse utilize carts for picking?
Cart picking allows for a picker to pick multiple orders at one time into more than one tote. The rules on tote separation is defined through system parameter 1054, Receiving, Tote Validation.
A cart is defined as a multiple pallet Alternative Location. Alternate Locations are found under the System Setup menu. Each pallet location may be filled with a tote used for picking. A cart may not have more pallets/totes on it than the number of pallets specified in the Alternate Location window. Each tote on the cart may be used for distinct orders.

Parameter ID: 1019

Name
Hip Printers

Parameter Type
Picking

Level
Global

Value
- No: You are not using a hip printer. [default]
- Code Courier: You are using this type of hip printer.
- ONeil: You are using this type of hip printer.
- Non-Legacy Printer: You are using a supported external application, such as Enterprise Printing Platform, to print labels.

Description
Hip Printers
Are hip printers used during picking?
Hip printers attach to the RF unit and print item labels after a pick occurs. If you use hip printers, select the brand. If not, accept the default.
A 'Non-Legacy Printer' means you are using a supported external application to print labels.

Parameter ID: 1050

Name
Picking Options

Parameter Type
Picking

Level
Global

Value
- Prompt picker
- Pick Short [default]Picking
- Leave Open

Description
Picking Options
When the picker picks short, how does the system respond?
There are three options. The options will affect how the order will behave. When a picker finishes picking an order before filling all available lines, the order is picked short. When a pick quantity is lowered from the original quantity, the unfilled amount is closed out from the order.
For all the examples below, use the following:
A pick is created for 10 of item ABC. When the picker performs the pick, he/she finds only 6. There is no other good stock in the warehouse,
1) Pick short - Close the pick and allow the picker to proceed. [default]
Example:
The 6 items are picked. The order is shipped short 4 units. After the inventory is released from Quality Assurance Hold, the host may send a backorder for the remaining items.
2) Leave Pick open - The order must be filled. No partial quantities are allowed.
Example:
The 6 items are picked. The remaining 4 items are left open and unfinished until the release of Quality Assurance Hold inventory.
3) Prompt Picker - The picker will determine whether to close the pick or not.
Example:
The 6 items are picked. The picker is then prompted, do you want to close the pick.
If the picker chooses to leave the pick open then:
The remaining 4 items are left open and unfinished until the release of Quality Assurance Hold inventory.
If the picker chooses to close the pick then:
The order is shipped short 4 units. After the inventory is released from Quality Assurance Hold, the host may send a backorder for the remaining items.

Parameter ID: 1054

Name
Tote Validation

Parameter Type
Picking

Level
Warehouse

Value
- No Validation

- Ship Address and Carrier
- Carrier and Service
- Order and Order Suffix
- Customer Code and Carrier [default]

Description
Tote Validation
When picking to tote, what level of validation do you want?
The validation is necessary for keeping specific order information separate from other orders.
1) No Validation
The packer can put any item into the tote. All orders can be mixed together in a pallet.
2) Ship Address and Carrier
The packer can only put inventory specified for the same ship name, address, and carrier into the tote.
3) Carrier and Service
The packer can only put inventory destined to go out the same carrier and carrier service into the same tote.
4) Order and Order Suffix
The packer can only put inventory for only one order into the tote.
5) Customer Code and Carrier
The customer identification code, shown on the Order Header window, and the carrier must be the same

Parameter ID: 1057

Name
Suggest Carton/Tote

Parameter Type
Picking

Level
Warehouse

Value
- No: A carton or tote will not be suggested. [default]
- Yes: A carton or tote will be suggested.

Description
Suggest Carton/Tote
When picking an order, do you want a suggested carton or tote?
The system will suggest the last carton or tote used by the picker. The suggested destination is based from transactions. The transactions reflect the differentiating of multiple orders, multiple pickers, multiple cartons, and multiple totes to be utilized, without overlapping.
Overlapping is when picker A is suggested a carton picker B is working on. Picker A would have to locate the carton Picker B was working on. The system will not suggest the same destination for Picker A and Picker B.

Parameter ID: 1060

Name
Carton Validation

Parameter Type
Picking

Level
Warehouse

Value
- Minimal Validation
- Ship Address and Carrier [default]
- Carrier and Service
- Order and Order Suffix
- Customer Code and Carrier

Description
Carton Validation
When picking to carton or picking to tote, what level of validation do you want?
The validation is necessary for keeping specific orders separate from other orders
1) Minimal Validation
Usually, the packer may put any item into the carton. All orders may be mixed together in the carton as long as the carriers follow the same pack and ship processes.
2) Ship Address and Carrier
The packer can only put inventory specified for the same ship name, address, and carrier into the carton.
3) Carrier and Service
The packer can only put inventory destined to go out the same carrier and carrier service into the same carton.
4) Order and Order Suffix
The packer can only put inventory for only one order into the carton.
5) Customer Code and Carrier
The customer identification code, shown on the Order Header window, and the carrier must be the same.

Parameter ID: 1063

Name
Picking Pallet Options

Parameter Type
Picking

Level
Global

Value
- Show Pallet [default]
- Select Pallet

Description
Picking Pallet Options
When the picker proceeds to a location and is to pick from a pallet, does the system guide the user to the available pallets, or does the picker tell which pallet they are picking from?
Show Pallet
The Show Pallet option shows the picker all of the pallets that the item is found on at that location. The picker will then choose which pallet they are picking from. If there is only one pallet at the location, the picker will be shown that pallet.
Select Pallet
With the Select Pallet option, the picker will scan the pallet with out any system assistance.
No matter which option is selected, the pallet quantity and item status will always be verified during the pick.

Parameter ID: 1067

Name
Cart Picking Type

Parameter Type
Picking

Level
Global

Value
- Prompt User [default]
- Cart Bins
- Associate Totes

Description
Cart Picking Type
A cart can be configured in a couple of ways. The system can be configured to automatic configuration or prompt the user. A cart can have totes associated to it or a cart can have default bins or slots.
Cart Bins
A cart bin is a dedicated portion of a cart. The cart bin can be a cell, level, or any other area. The cart bin is used to store all picks for an order. After an order is completely picked to a cart bin, the order can be packed from the cart bin.
Associate Totes
The user must associate totes to each cart bin. The totes can be removed from the cart after picking is complete for packing.
Prompt User
Ask the user which one they are using.

Parameter ID: 1068

Name
Truck Pallets

Parameter Type
Picking

Level
Global

Value
- Yes: Truck pallets are used for picking. [default]
- No: Truck pallets are not used for picking.

Description
A truck pallet is a pallet used for shipping. When picking to a truck pallet, the picks are automatically prepared for shipping on that pallet. To ship all the inventory on the pallet, only the pallet has to be scanned.

Parameter ID: 1075

Name
Kit Quantity Posting

Parameter Type
Picking

Level
Global

Value
- Round Down Kit Quantity [default]
- Exact Kit Quantity

Description
This parameter is used to determine whether to update a kit in complete units or as a fractional value. When a kit is processed during the picking process, the kit header is updated as the sub-components are picked. After the complete kit is constructed, the kit quantity is updated. The sub-component that limits the number of full kits to be assembled is the limiting factor and this value will determine the number of full kits that can be created.
Example:
Kit ABC (20 kits to be processed, and one full kit consists of (1)A, (1)B, and (5)C).

Sub-component	Needed	On-hand
A	20	100
B	20	90
C	100	90

Item C is the limiting factor. With item C you can only construct 18 ABC kits with the limited availability of C (90 / 5 = 18).
The options are Round Down Kit Quantity or Exact Kit Quantity.
Round Down Kit Quantity
The kit quantity is only updated when a full kit is assembled.
Exact Kit Quantity
Allows fractional kits to be assembled.

Parameter ID: 1080

Name
Truck Pallet Validation

Parameter Type
Picking

Level
Global

Value
- No Validation
- Ship Address and Carrier [default]
- Carrier and Service
- Order and Order Suffix
- Customer Code and Carrier

Description
Truck Pallet Validation
When picking to a truck shipping pallet, what level of validation do you want?
The validation is necessary for keeping specific orders separate from other orders.
1) No Validation
The packer may put any item on the pallet. All orders may be mixed together on the pallet.
2) Ship address and Carrier
The packer may only put inventory specified for the same ship name, address, and carrier on the pallet.
3) Carrier and Service
The packer may only put inventory destined to go out the same carrier and carrier service on the same pallet.
4) Order and Order Suffix
The packer may only put inventory for only one order on the pallet.
5) Customer Code and Carrier
The customer identification code, shown on the Order Header window, and the carrier must be the same.

Parameter ID: 1083

Name
Work Order Prompt

Parameter Type
Picking

Level
Global

Value
- No
- Yes [default]

Description
Work Order Prompt
When picking a work order, do you want to have a message tell the user this is a work order?

Parameter ID: 1084

Name
Assume Item

Parameter Type
Picking

Level
Global

Value
- No: The system requires the operator to scan the item, even if there is only one item in the location. [default]
- Yes: The system will not require the operator to scan the item if the location only contains one item.

Description
Assume Item
When the user is picking at a specified location. If only one item exists at the location, can the system assume the item number? This system parameter will skip the scanning of the item, if the location only contains one item.
The assume item parameter is added to facilitate the picking process. The picker will have fewer scans to perform the pick. The trade off is the user can have the wrong item.

Parameter ID: 1086

Name
Picking Quantity

Parameter Type
Picking

Level
Global

Value
- Do not pre-fill [default]
- Pre-fill to 1
- Pre-fill to pick quantity

Description
Picking Quantity
The Picking Quantity system parameter is used to determine how the picking screen should default a pick quantity. The pick quantity is the amount of inventory reserved for an order, broken down into logical units.

The options are
Do not pre-fill.
Always default to zero.
Pre-fill to 1.
Always default to one.
Pre-fill to pick quantity.
Default to the requested quantity in the pick.

Parameter ID: 1099

Name
Suggest Carton – Advanced

Parameter Type
Picking

Level
Global

Value
- No [default]
- Yes: Carton suggestion will depend on parameter 1060.

Description
This parameter will enable the system to suggest the last carton that the picker used, even if it was for a different order.
The validation criteria defined in parameter 1060 will be applied when suggesting the carton.
Enable this functionality?

Parameter ID: 2022

Name
Emergency Order Picking

Parameter Type
Picking

Level
Global

Value
- No [default]
- Yes: Emergency orders are displayed first.

Description
Should emergency orders be given priority above all other orders?
This will force the picking module into a sort mode where all emergency orders are displayed first.
None of the standard picking screens will be accessible until all emergency orders are picked.

Parameter ID: 2032

Name
Pick from CrossDock

Parameter Type
Picking

Level
Warehouse

Value
- Yes
- No [default]

Description
Pick from CrossDock Pallets
Parameter to control the Picking of Items from the Dock when the Pallet is bound for a Cross Docking Warehouse Zone.
This allows the users to set Pick From Dock equal to NO for normal Receipt/Put-Away Items, but still let people Pick Goods from the Dock for Cross Dock Items.
Enable Pick from Cross Dock Pallets?
NO - Normal Pick-From-Dock Parameter setting Parameter
YES - Always Pick From Dock if Cross Dock Pallet Dock Pallet

Parameter ID: 7000

Name
Multiple UOM During Picking

Parameter Type
Picking

Level
Warehouse

Value
- No [default]
- Yes

Description
Multiple UOM During Picking
In Order Picking - Pick From Label, can picking be done in a Unit of Measure other than EACH?
If YES, then the Pick UOM will default to the Selling UOM as entered in SX.e.
The Picker can select from any valid Unit of Measure that has been defined in SX.e.
Select if Picking Multi-UOM can be done:
No: No UOM Entry, Always EACH
Yes: Pick by Valid Item. UOMs Allowed

Parameter ID: 7001

Name
Ship Complete Pick Short Dialog

Parameter Type
Picking

Level
Warehouse

Value
1 Open (no dialog)
2 Line (no dialog)
3 Line and Order (no dialog)
4 Open/Line/Line and Order
5 Line/Line and Order [default]
6 Line and Order (no dialog)

Description
Ship Complete Pick Short Dialog
When attempting to pick short on a ship complete order, what options does the picker have for placing the lines or order on hold?
There are three options:
Open - The line is left open and is available for picking.
Line - The line is placed on hold and cannot be picked until it is released.
Line and Order - The line and the whole order is placed on hold. No lines on the order can be picked until the order is released from hold and the line must also be released from hold before it can be picked.
Options 1, 2, and 6, automatically perform the action without prompting the picker. Options 3, 4, and 5 give the user a combination of choices.

Parameter ID: 7002

Name
Review Zero Ships

Parameter Type
Picking

Level
Warehouse

Value
- Yes
- No [default]

Description
Review Zero Ships
Do you want to review zero shipped orders before they go back to SX.e? Thus, giving you the option to fix inventory discrepancies and redrop the order.

An order can become zero shipped when a total quantity of zero is shipped for an order, either by dropping when there is no inventory available in TWL or by actually picking zero and saying no to pick more.

- NO - Do not review zero ships before they are sent up to SX.e.
- YES - Review Zero Ships in the Order Drop Manager before they go back up to SX.e.

Parameter ID: 7003

Name
Rush Order Notify

Parameter Type
Picking

Level
Global

Value
Specify a numeric value in seconds. [default=0]

Description
Enter the minimum time interval (in seconds) to use when notifying RF users of the existence of rush orders.
If the interval is set to zero, Rush Order Notify will be inactive.

Parameter ID: 7005

Name
SCM Label Printing

Parameter Type
Picking

Level
Warehouse

Value

- Auto
- Employee
- Manual [default]

Description
SCM Label Printing
After Creation of a New Carton, should SCM Labels be Automatically Printed, Batch Printed by Employee, or run as a manual print from the Shipping SCM Menu?
If Auto Printing then SCM Label will print to the Zebra Printer defined in Carrier Maintenance.
If By Employee, then SCMs will print from "Create SCM Label" by entering Employee Id.
If Manual Printing then no SCM data will be collected during the packing process, but labels can be printed manually using the "Create SCM Label".

Parameter ID: 7006

Name
Allow RF Sorting of Waves/Orders

Parameter Type
Picking

Level
Global

Value
- NO
- YES [default]

Description
Do you want to allow employees to sort the picking Waves and Orders in the TWL RF Picking Module in the order they specify?
(Examples: carrier, shipto, route)
Only employees assigned the proper security to allow pick sorting will be prompted in the picking module.
All other employees will use the standard methodology to sort the pick records.

Parameter ID: 7007

Name
RF Pick Consolidation

Parameter Type
Picking

Level
Global

Value
- Disabled: Don't allow [default]
- Enabled: Default is Yes
- Enabled: Default is No

Description
RF Pick Consolidation
If enabled, then during RF picking of waves, orders, or zones the picks will be consolidated based on these rules.
Pick records are consolidated on the RF gun when picking by wave, order, or zone.
Pick records will only be consolidated if they are for the same item, in the same bin, and have the same UOM!
PICK TO PACK Warehouse & Ship Going Pallet Picking:
Pick records must meet carton validation rules assigned by parameter 1060 in order to be consolidated.
PICK TO TOTE Warehouse:
Pick records must meet tote validation rules assigned by parameter 1054 in order to be consolidated.

Parameter ID: 7008

Name
Order Notes

Parameter Type
Picking

Level
Global

Value
Specify one or more of these values: O,C,L,P [default]

Description
Order Notes Display
Which Order notes do you want to display during Picking?
O - Order (header) Notes
C - Customer Notes
L - Line Notes
P - Product Notes
Enter selection in a comma-delimited list.
For example: To see all notes enter
O,C,L,P

Parameter ID: 7009

Name
Warehouse Transfer Notes

Parameter Type
Picking

Level
Global

Value
Specify one or more of these values: O, L, P [default]

Description
Warehouse Transfer Notes Display
Which warehouse Transfer notes do you want to display during Picking?
O - Order (header) Notes
L - Line Notes
P - Product Notes
Enter selection in a comma-delimited list.
For example: To see all notes enter
O,L,P

Parameter ID: 7010

Name
Vendor Return Notes

Parameter Type
Picking

Level
Global

Value
Specify one or more of these values: O, L, P [default]

Description
Vendor Return Notes Display
Which Vendor Return notes do you want to display during Picking?
O - Order (header) Notes
L - Line Notes
P - Product Notes
Enter selection in a comma-delimited list.
For example: To see all notes enter
O,L,P

Parameter ID: 7011

Name
RF Order Pick/Pack Confirmation

Parameter Type
Picking

Level
Warehouse

Value
- No: Standard functionality. [default]
- Yes: Enables the order confirmation screen.

Description
This parameter will enable the TWL RF order confirmation screen.
If you are a pick to tote warehouse you will be notified when the order is fully picked.
If you are a pick to pack warehouse you will be notified when the order is fully packed.
Enable this functionality?

Parameter ID: 7012

Name
Alt Whse Order Notify

Parameter Type
Picking

Level
Global

Value
Specify a numeric value in seconds. [default=0]

Description
Enter the minimum time interval (in seconds) to use when notifying RF users of the existence of orders in Alternate Warehouses.
If the interval is set to zero, Alt Whse Order Notify will be inactive.

Parameter ID: 7013

Name
Counter Sales Over Pick Quantity

Parameter Type
Picking

Level
Warehouse

Value
- No: Do not allow [default]
- Yes: Allow

Description
Allow Counter Sales to Over Pick the Quantity?
Should the RF operator executing a pick against a counter sales order (Class = CS) be allowed to pick more than was entered?
The Counter Sales Order in Infor ERP will have already tendered the quantity entered to pick.
Your Warehouse and Item Level Settings Must Allow Over Picking (Force Ship) to Use This Setting.

Packing parameters

In TWL Web module, parameters are set to ensure the system is performing according to your company's operational standards. Your tasks are affected by how your TWL administrator set up system parameters. Ensure your TWL administrator has set these parameters to reflect your needs. For your information, task-related parameters are described in this section. The name, parameter type, level, value, and description are provided for each parameter. The default for each parameter is identified as [default].

Parameter ID:1051

Name
Packing Option

Parameter Type
Packing

Level
Warehouse

Value
- Tote to Cartons
- Cartons from Totes [default]
- Quick Scan

Description
Packing Options
The packing options are presented to help optimize the packers work. There are three options for packing. The differences in the screens is in the order of the scanning, and the assumption of pick size. The options are Carton from Totes, Totes to Carton, Quick Scan packing.
Carton from Totes
The Carton from totes option allows the packer to quickly pack a carton from many totes. This feature should be used for warehouse which pick many totes per order. The packer will be asked to scan a Carton, then all the totes which will be used.
Tote to Cartons
The Tote to Cartons option allows the packer to quickly pack many cartons from one tote. This feature should be used for warehouses which pick large orders to one tote, or one orders to a tote. The packer will be asked to scan a Tote, then all the cartons which will be used.
Quick Scan
The Quick Scan option allows the packer to quickly pack many cartons from one tote. This feature should be used primarily when putting a high quantity of goods into one carton. The quantity is assumed to be one.

Parameter ID:1052

Name
Config Packing Option

Parameter Type
Packing

Level
Warehouse

Value
- Tote to Cartons [default]
- Carton from Totes
- Quick Scan

Description
Packing Options
The packing options are presented to help optimize the packers work. There are three options for packing. The differences in the screens is in the order of the scanning, and the assumption of pick size. The options are Carton from Totes, Totes to Carton, Quick Scan packing.
Carton from Totes
The Carton from totes option allows the packer to quickly pack a carton from many totes. This feature should be used for warehouse which pick many totes per order. The packer will be asked to scan a Carton, then all the totes which will be used.
Tote to Cartons
The Tote to Cartons option allows the packer to quickly pack many cartons from one tote. This feature should be used for warehouses which pick large orders to one tote, or one order to a tote. The packer will be asked to scan a Tote, then all the cartons which will be used.
Quick Scan
The Quick Scan option allows the packer to quickly pack many cartons from one tote. This feature should be used primarily when putting a high quantity of goods into one carton. The quantity is assumed to be one.

Parameter ID:1055

Name
Quick Pack

Parameter Type
Packing

Level
Global

Value
- No: Quick pack is not used. [default]
- Yes: Quick pack is allowed.

Description
Quick Pack
Quick pack allows packing of all items in a tote into one carton at once.
The carton will contain all the items from the tote. The quick pack option will only be applicable for totes containing at most one order. If a tote has multiple orders in it, quick pack option is not used.

Parameter ID:1066

Name
Hold Order For Packing

Parameter Type
Packing

Level
Global

Value
- No [default]
- Yes

Description
Hold Order For Packing
Does an order have to be picked complete prior to packing? This question is a business rule. If an order cannot be packed before all picking for it is complete, the order can take up valuable packing resources. If an order is not held until completely picked, the order can ship in multiple parts.
No
The packer can pack part of an order at any time.
Yes
The packer cannot pack an order until the order is completely picked.

Parameter ID:5250

Name
Display qty in pack

Parameter Type
Packing

Level
Global

Value
- Yes: The RF operator will see the expected quantity and is not forced to verify the quantity packed. This expedites the quantity packed and the packing process, but accuracy is compromised. [default]
- No: The RF operator must enter the quantity packed. This enforces accuracy and is recommended.

Description
Should TWL initially display the quantity on the Pack Verification Screen?
Should the user be able to see the quantity TWL expects in the carton or should the quantity be blank?

Parameter ID:5253

Name
Carton Sortation Verification

Parameter Type
Packing

Level
Warehouse

Value
- None [default]
- Carrier
- ShipTo
- Both

Description
Carton Sortation Verification
When adding a carton to a pallet should the Carrier and/or the Customer Ship To be verified for matching?
If Verification has been turned on then a warning will display, but it will allow the user to continue if they see fit.
Select what verification should be based on:
None - No verification
Carrier - Verify each order placed on the pallet is for the same carrier
Ship T - Verify each order placed on the pallet is for the same ship-to address
Both - Verify each order placed on the pallet is for the same carrier and ship-to address

Parameter ID:5254

Name
Carton Sortation Verification - Hard Stop

Parameter Type
Packing

Level
Global

Value
- Hard Stop
- Warning [default]

Description
Carton Sortation Verification - Hard Stop
Carton Sortation Verification will check Ship To Addresses and Carriers. It will allow either a hard stop or a warning when encountering a mismatch. If Hard Stop is chosen and a mismatch is found, then TWL will NOT allow the user to proceed. If Warning is chosen and a mismatch is found, then TWL will display a warning. The user will be allowed to override the mis-match and proceed with Carton Sortation.
Select the Mis-Match Processing:
Warning: User can continue
Hard Stop-Error: No continuation

Parameter ID:5255

Name
Display SX.e Pack Slip Confirmation

Parameter Type
Packing

Level
Warehouse

Value
- No [default]

- Yes

Description
This parameter will enable the TWL RF system to display confirmation for each Order that the SX.e packing slip printed and to which printer the report was sent.
Enable this functionality?

Parameter ID:5256

Name
Multi-UOM TWL Packing List

Parameter Type
Packing

Level
Global

Value
- No [default]
- Yes

Description
Do you want to perform the Multi-UOM calculation when printing TWL packing slips in the RF software?
If NO then all quantities will be printed in an "EACH" quantity value.
If YES then the correct UOM and corresponding quantity of that UOM will be printed.

Parameter ID:5257

Name
Order Notes

Parameter Type
Packing

Level
Global

Value
Specify one or more of these values: O,C,L,P [default]

Description
Order Notes Display
Which Order notes do you want to display during Packing?
O - Order (header) Notes
C - Customer Notes
L - Line Notes
P - Product Notes
Enter selection in a comma-delimited list.
For example: To see all notes enter
O,C,L,P

Parameter ID:5258

Name
Warehouse Transfer Notes

Parameter Type
Packing

Level
Global

Value
Specify one or more of these values: O, L, P [default]

Description
Warehouse Transfer Notes Display
Which warehouse Transfer notes do you want to display during Packing?
O - Order (header) Notes
L - Line Notes
P - Product Notes
Enter selection in a comma-delimited list.
For example: To see all notes enter
O,L,P

Parameter ID:5259

Name
Vendor Return Notes

Parameter Type
Packing

Level
Global

Value
Specify one or more of these values: O, L, P [default]

Description
Vendor Return Notes Display
Which Vendor Return notes do you want to display during Packing?
O - Order (header) Notes
L - Line Notes
P - Product Notes
Enter selection in a comma-delimited list.
For example: To see all notes enter
O,L,P

Parameter ID:5260

Name
Allow Report Printer For SX.e Pack Slip

Parameter Type
Packing

Level
Global

Value
- No [default]
- Yes

Description
This parameter will enable the TWL RF system to use the report printer for the SX.e packing slip.

Replenishment parameters

In TWL Web module, parameters are set to ensure the system is performing according to your company's operational standards. Your tasks are affected by how your TWL administrator set up system parameters. Ensure your TWL administrator has set these parameters to reflect your needs. For your information, task-related parameters are described in this section. The name, parameter type, level, value, and description are provided for each parameter. The default for each parameter is identified as [default].

Parameter ID:0008

Name
FIFO or Size

Parameter Type
Replenishment

Level
Global

Value
- FIFO [default]
- Smallest to Largest

Description
Replenishment Options
When finding inventory for replenishment, should the system find inventory by FIFO or from Smallest to Largest?
The inventory in the warehouse is searched for replenishment in a pre-defined order. The order options are either by size, from smallest to largest, or by first in first out logic.
There are advantages to both settings. If your primary concern in the warehouse is to consolidate inventory, then by choosing from smallest to largest will potentially consolidate material more than FIFO. If moving the oldest material is a primary warehouse concern, then selecting FIFO will move the oldest material first.
If more than one pallet has the same size, then FIFO is used to differentiate the goods.

Parameter ID:2011

Name
Counter Primary Replenishment

Parameter Type
Replenishment

Level
Global

Value
- No [default]
- Yes

Description
Counter Primary Replenishment
When performing replenishments for the counter primary location in the counter zone do you allow inventory to be taken from the other primary bin locations in the warehouse?
No - Only replenish from non primary locations in the warehouse.
Yes - Allow replenishments from any location including other primaries.
Parameter 0008 logic will still be used to determine which inventory to replenish inventory from.

Parameter ID:2033

Name
Consolidation Type

Parameter Type
Replenishment

Level
Global

Value
- Warehouse Zone [default]
- Putaway Group

Description
Will the warehouse perform consolidation based on the warehouse zone or the putaway group for the item?

Parameter ID:2034

Name
Invalid Consolidation Location Types

Parameter Type
Replenishment

Level
Global

Value
Specify one or more of these values: B, C, F, P, S, T [default=blank]

Description
Invalid Consolidation Location Types
Enter the types of locations where the system will not suggest a consolidation.
Example, if you want the system to not suggest a specific location, enter the location.
Enter B, T to exclude all Bulk and Stage locations.

Type	Description
B	Bulk
C	Carousel
F	Flow Rack
P	Pallet
S	Shelf
T	Stage

Parameter ID:2035

Name
Suggest Quantity

Parameter Type
Replenishment

Level
Global

Value
- Zero [default]
- Suggested Quantity

Description
Consolidation
Suggested Quantity
Should the suggested quantity or a zero be displayed at Exp. Quantity when processing a consolidation transaction?

Parameter ID:2036

Name
Item Scan at Consolidation Putaway

Parameter Type
Replenishment

Level
Global

Value
- No [default]
- Yes

Description
Consolidation
Item Scan at Consolidation Putaway
Should TWL force the user to scan each item during consolidation?

Parameter ID:2037

Name
Multi-UOM

Parameter Type
Replenishment

Level
Global

Value
- No [default]
- Yes

Description
Consolidation
Consolidation Confirmation - Multiple UOM.
Can the user enter quantities in alternate units of measure during Consolidation PutAway? If YES, the User can select from any valid unit of measure that has been defined in the SX.e.
Select if Multi-UOM processing can be done:
NO - No UOM Entry, Always EACH
YES - Any Valid UOMs Allowed

Parameter ID:2038

Name
Serpentine Consolidation Putaway

Parameter Type
Replenishment

Level
Global

Value
- No
- Yes [default]

Description
Consolidation
Should TWL force serpentine during the consolidation process?

Parameter ID:2112

Name
Replenish from Primary

Parameter Type
Replenishment

Level
Global

Value
- No [default]
- Yes

Description
Replenishment from Primaries
When a check is made to see if a Replenishment should be generated, should the system consider replenishing primary locations from other primary locations?
With this enabled a Pallet Primary may replenish either Case or Split-Case Primaries, and a Case Primary may replenish a Split-Case Location.
Replenishment will only go from Larger to Smaller UOMs.

Parameter ID:2113

Name
Counter Zone Replenishment

Parameter Type
Replenishment

Level
Global

Value
- No
- Yes [default]

Description
Counter Zone Replenishment
Do you want to allow replenishment of the counter primary location from additional non primary bin locations in the same Counter Warehouse Zone?

Order Management parameters

In TWL Web module, parameters are set to ensure the system is performing according to your company's operational standards. Your tasks are affected by how your TWL administrator set up system parameters. Ensure your TWL administrator has set these parameters to reflect your needs. For your information, task-related parameters are described in this section. The name, parameter type, level, value, and description are provided for each parameter. The default for each parameter is identified as [default].

Parameter ID:0018

Name
Order Drop Criteria

Parameter Type
Order Management

Level
Global

Value
Select one or more of these values:

- Cross Dock
- Full Pallet
- Pallet Primary
- Case Primary
- Split-Case Primary
- Zone Pick Sequence
- FIFO
- Counter Primary
- Counter Zone

Description
Default Order Drop Criteria Values.
These are the default criteria types available when assigning order drop sequences through the Order Drop Manager.
Any change to this parameter requires changes to the order drop allocation code!

Parameter ID:0020

Name
Inventory Discrepancy

Parameter Type
Order Management

Level
Warehouse

Value
- Adjust Quantity
- Zero Ship Line
- Skip Order
- Hold Order for Partial Fill [default]

Description
Inventory Discrepancy
The inventory quantity parameter is assigned to establish how to handle inventory discrepancies when dropping orders. Example, the order requests 50 and the warehouse has 35.
Order dropping is a two step process. The first step allocates an entire order. The second step is to create the necessary picks, replenishments, and stock movements for the order and wave. All the options below occur during the first step.
The options are:
1) Adjust Quantity
Automatically adjust the order line quantity down to the warehouse available quantity. The remaining quantity can be processed in a new order, or canceled on the host system.
2) Zero Ship Line
By zero shipping the order line, not one unit for this order line will be shipped. The order line immediately becomes shipped. The rest of the order will also be processed. If this is the only line for the order, then the order will be marked and processed as shipped.
3) Skip Order
The order must be filled to completion, when any portion of the order is unable to be filled, the system removes any allocations and skips the order.
4) Hold Order for Partial Fill
When the quantities don't match, accept any available quantity. If not one line in an order can be at least partially allocated then skip the order.
NOTE:
When dropping from the Exceptions screen or when dropping using the 'Drop without Appserver' option from the Order Drop Manager screen, the user will always be prompted for the best solution.

Parameter ID:0025

Name
Pick Ticket/Label Program

Parameter Type
Order Management

Level
Warehouse

Value
Specify the appropriate program name.

Description
Pick Ticket/Label Program
Enter the program name for either printing the summary pick ticket or the pick label when dropping orders.
If this program is for label printing add "-label" after the program name.

Example:
gen_pick.p (Report)
gen_pick.p-label (Label)

Parameter ID:0026

Name
Pick Ticket Size

Parameter Type
Order Management

Level
Global

Value
- Disable [default]
- Enable

Description
Pick Quantity Size
Generate a pick ticket for each unit of each item?
If this option is enabled, the system will print a pick ticket(request) for each item unit on the order. Enabling this option also facilitates printing a separate label for each item if so desired.
If this option is disabled, then each pick request can contain multiple units to be picked, up to the maximum pallet quantity for each item.
Examples:
Suppose that we want to pick 10 units of item ABC from pallets that hold a maximum of 3 units of ABC.
If this option is enabled, then 10 pick requests will be generated. One for each unit of ABC.
If this option is disabled, then 4 pick requests will be generated. One for each set of 3 units on the pallets, and 1 single-unit pick, for a total of 10 units:
((3 x 3) + 1).

Parameter ID:2000

Name
Wave Size

Parameter Type
Order Management

Level
Warehouse

Value
Specify a numeric value between 1 and 999. [default=5]

Description
Wave Size
The maximum limit on the number of orders in a wave.

For assisting warehouse labor planning, the system allows a limit to be placed on a wave size. The value entered in this system parameter, controls the maximum order count for all waves dropped. The value represents the upper limit. So, if the system is assigned to fifty orders in a wave, there will never be fifty-one orders combined in one wave. Although, there may be anywhere from one to exactly fifty orders in a wave.
Orders are assigned into wave numbers by sequential order. Assuming you are dropping eighty orders, the first fifty will be in the first wave. The remaining orders will be in the second wave.
For no upper limit on the wave size, set the size to zero.
Please note that this limit is not applicable for host assigned waves.
Example:
The system is dropping 155 orders. The wave size is set at 50 orders.
The result of dropping these orders is four waves. The first three waves would each contain fifty orders each. The final five orders are placed in the final wave.

Parameter ID:2019

Name
Adjustment Orders, In

Parameter Type
Order Management

Level
Global

Value
Specify an appropriate code, such as STKIN. [default=STKIN]

Description
The adjustment code used for Adjustment type orders when the inventory level is negative. In effect, what stock adjustment do we use when adjusting up inventory levels?

Parameter ID:2020

Name
Adjustment Orders, Out

Parameter Type
Order Management

Level
Global

Value
Specify an appropriate code, such as STKOUT. [default=STKOUT]

Description
The adjustment code used for Adjustment type orders when the inventory level is positive. In effect, what stock adjustment do we use when adjusting down inventory levels?

Parameter ID:2021

Name
Customs Adjustment Code

Parameter Type
Order Management

Level
Global

Value
Specify an appropriate code, such as CSOUT. [default=CSOUT]

Description
What stock adjustment code do you want applied to the adjustment? The stock adjustment is applied through the Inventory Control, Customs Hold screen.

Parameter ID:2025

Name
Pick Ticket/Label Print

Parameter Type
Order Management

Level
Global

Value
- No
- Yes [default]

Description
Do you want to print a summary pick ticket or labels when dropping orders?
The program used to print is defined by parameter 0025.

Parameter ID:2027

Name
Full Cartons

Parameter Type
Order Management

Level
Warehouse

Value
- Single Location Case Pick
- One Carton per Pick
- Multiple Cartons per Pick [default]

- Single Loc. Split/Case Pick

Description
Break By Carton
When creating picks for an order, should the system break picks by full carton? This system parameter is used to determine how to pick from the Full Case Primary location, the Split Case Primary Location, and bulk. This parameter is not used when picking full pallets, or from the back order location. It would also have no effect if there is no primary case location.
Example:
Pick of 118 units, where there is a split primary and a case primary with a case size of 50.
Single Location Case Pick
1 case pick of 118
One Carton per Pick
2 case picks of 50, 1 split pick of 18
Multiple Cartons per Pick
1 case pick of 100, 1 split pick of 18
Single Location Split/Case Pick
1 split pick of 118 (If pick of 100 it would be 1 case pick of 100 because that consists of complete cases.)

Parameter ID:2028

Name
Labor Items

Parameter Type
Order Management

Level
Warehouse

Value
- No: Lines containing labor items are skipped.
- Yes: Picks are created for labor items when the Order Drop Manager is processing a labor item. [default]

Description
Labor Items
Do you create a pick for labor items? If a pick is created for a labor item, the pick is in the Labor location?
Use this system parameter to create the picks, when the Order Drop Manager is processing a labor item, or to skip the order line.

Parameter ID:2031

Name
Auto Drop Run Log

Parameter Type
Order Management

Level
Global

Value
Specify the full directory path. [default=0]

Description
Enter the full directory path where Auto Drop Rules Run Logs will be located.

Parameter ID:2053

Name
BOD Kit With Required Component

Parameter Type
Order Management

Level
Warehouse

Value
- Skip Order
- Zero Ship Kit [default]

Description
BOD kit handling with required components.
How should BOD kits be handled during the order drop process when inventory is not available for a required component?
If "Zero Ship Kit" then the BOD line will be zero shipped on the order if any required components are not available for allocation.
If "Skip Order" then the entire order will be skipped for review.

Parameter ID:2054

Name
Prebuilt Kit Without Inventory

Parameter Type
Order Management

Level
Global

Value
- Zero Ship Kit [default]
- Skip Order

Description
Prebuilt kit handling without inventory.
How should Prebuilt kits be handled during the order drop process when inventory is not available for a component?

If "Zero Ship Kit" then the BOD line will be zero shipped on the order if any components are not available for allocation.
If "Skip Order" then the entire order will be skipped for review.

Parameter ID:2111

Name
Partial Primary UOM Pick

Parameter Type
Order Management

Level
Global

Value
- No [default]
- Yes

Description
Pick partial UOM from Primaries?
During Order Dropping, can the system pick partial units of measure from a Primary Location?
Example:
Split Case Primary is empty, and Case Primary has available stock.
Can we pick less than a case (an each) from the Case Primary?

Parameter ID: 7510

Name
Order Drop By Lot Size

Parameter Type
Order Manager

Level
Warehouse

Value
- Yes: Allow

Description
Efficient Lot Size Order Dropping
This parameter will supercede the standard default order dropping criteria by allocating inventory based on quantities closest, but not smaller than the order quantity.
Note: Multiple Allocations May Occur

System parameters

In TWL Web module, parameters are set to ensure the system is performing according to your company's operational standards. Your tasks are affected by how your TWL administrator set up system parameters. Ensure your TWL administrator has set these parameters to reflect your needs. For your information, task-related parameters are described in this section. The name, parameter type, level, value, and description are provided for each parameter. The default for each parameter is identified as [default].

Parameter ID:0004

Name
Non-Stock Item Comment

Parameter Type
System

Level
Global

Value
- No [default]
- Yes

Description
Show the non-stock comment for an item during the picking, packing and shipping screens?

Parameter ID:1023

Name
Default Printing

Parameter Type
System

Level
Global

Value
- No [default]
- Yes

Description
Default value for printing labels. This value is used in initial load, receiving, and physical inventory screens on the RF.

Parameter ID:1024

Name
Default Item Type

Parameter Type
System

Level
Global

Value
- Item [default]
- UPC
- Vendor

Description
The default setting for selecting an item. Use this setting for the general purpose case.

Parameter ID:1035

Name
Carton /Tote Verification

Parameter Type
System

Level
Global

Value
- No validation
- First Letter
- First Letter and Length
- First Letter - Length - Numbers [default]

Description
Validation of cartons and totes to these specifications:
1) No validation
Any value can be entered for the totes or cartons. Not recommended for system setup.
2) Carton has to start with "C", tote with "T"
Lowest level of validation. The validation only looks at the first character of a pallet or tote.
3) Start character and total length = 10
Medium level validation for cartons and totes. The validation mandates the length of a carton or tote to ten characters. Anything under or over ten characters is rejected.
4) Start character + 9 digits
Option four is the highest level of validation. The validation checks the initial character, forces the length of ten, and verifies the last nine item in the carton or tote are numeric. This behavior is recommended.

Parameter ID:1059

Name
Decimal Entry

Parameter Type
System

Level
Global

Value
Specify the number of decimals. [default=2].

Description
Decimal Entry
Enter the number of decimals to be utilized throughout the RF.
The maximum value should not be greater than four (4).

Parameter ID:2702

Name
Location Label Format

Parameter Type
System

Level
Global

Value
Specify one or more of these values: 3,6,9,12 [default]

Description
Location Label Format
Enter the number location of where the dashes belongs in the location label. Extra dashes at the end are not printed.
Example:
For location AB1234567, you want the label to look like 'AB-12-45-67', enter '3,6,9,12'.
1 1 1
1 2 3 4 5 6 7 8 9 0 1 2
A B - 1 2 - 4 5 - 6 7 -
As you can see, the 3, 6, 9, and 12 character. The extra dash at the 12 characters is not printed.

Parameter ID:5753

Name
Non-Primary Space Check

Parameter Type
System

Level
Global

Value
Retain the default blank or specify one or more of these values: 2,3,4 [default=blank]

Description
Non-Primary Location Space Available Check
This check is done during Putaway, Stock Movements, Item Consolidation.
What should be used to determine space available in a non-primary location during movement of an item to that location?
2 - CUBE - The cube of the item to be moved to the location in comparison with the cube limit of the location, taking into account what is already in the location or set to go to that location.
3 - WEIGHT - The weight of the item to be moved to the location in comparison with the weight of the location, taking into account what is already in the location or set to go to that location.
4 - PALLET QUANITY - The maximum pallets allowed in the location, taking into account the number of pallets already in the location or set to go to the location. This would apply only to pallet locations.
Enter your selections as a comma delimited list.
For example:
2,3,4
would check cube, weight, and maximum pallets.
See parameter 5754 for checks on Primary locations.

Parameter ID:5754

Name
Primary Space Check

Parameter Type
System

Level
Global

Value
Specify one or more of these values: 1,2,3,4. [default=1]

Description
Primary Location Space Available Check
This check is done during Putaway, Stock Movements, Item Consolidation.
What should be used to determine space available in a primary location during movement of an item to that location?
1 - MAXIMUM LEVEL - The maximum level of the primary location, taking into account the quantity of items already in the location.
2 - CUBE - The cube of the item to be moved to the location in comparison with the cube limit of the location, taking into account what is already in the location.
3 - WEIGHT - The weight of the item to be moved to the location in comparison with the weight of the location, taking into account what is already in the location.
4 - PALLET QUANTITY - The maximum pallets allowed in the location, taking into account the number of pallets already in the location. This would apply only to pallet locations.
Enter your selections as a comma delimited list.
For example:
1,3,4

would check maximum level, weight, and maximum pallets.
See parameter 5753 for checks on Non-Primary locations.

Parameter ID:7501

Name
Order Container Inquiry

Parameter Type
System

Level
Global

Value
- No [default]
- Yes

Description
Order Multi-Container Inquiry.
Parameter to control the viewing of all Containers (Totes, Pallets, & Cartons) for an Order during Order Inquiries, Packing, Carton Sortation, and Shipping.
If an Orders lines are accessed more than once in a function, the Inquiry will display only after the first line is viewed.
Enable the Multi-Container Order Inquiry?
No: Do not view the Container Inquiry.
Yes: View the Multiple Containers for an Order.

Parameter ID:7503

Name
Hip Printer Label Pause

Parameter Type
System

Level
Global

Value
Specify the number of seconds. [default=6]

Description
An integer value, that is user changeable. This value controls the amount of time, in seconds, that the hip printer pauses between multiple labels.
The default is 6 seconds.

Parameter ID:7504

Name
Kit Weight/Cube

Parameter Type
System

Level
Global

Value
- Parent Kit: The kit product record determines the weight and volume of the kit. [default]
- Components: The sum of components determines the weight and volume.

Description
Kit Weight/Cube Calculation.
During Order creation should the weight and volume (cube) of a Kit be determined by the Parent Kit or the sum of the Components?
1) Parent Kit.
2) Sum of Components.

Parameter ID:7505

Name
Maximum Labels

Parameter Type
System

Level
Global

Value
Specify a number. [default=99]

Description
Maximum Labels
The maximum limit on the number of labels to be printed.

Parameter ID:7506

Name
Allow Multiple Lots Per Location/Pallet

Parameter Type
System

Level
Global

Value
- Yes [default]
- No

Description
Options:
No = Only one lot per location or pallet is allowed.
Yes = Multiple lots per location or pallet is allowed.

Parameter ID:7507

Name
RF Notes Create - Position

Parameter Type
System

Level
Warehouse

Value
- Top of List [default]
- Bottom of List

Description
Notes Creation: Position of Note Added
1) Top of List
Positions the notes added as the first page.
2) Bottom of List
Positions the notes added as the last page.

Parameter ID:7508

Name
RF Notes Create - Defaults

Parameter Type
System

Level
Global

Value
- Required/Printed
- Required/Not Printed
- Not Required/Printed [default]
- Not Required/Not Printed

Description
Notes Creation: Default Page Setting
1) Required/Printed
New Notes Page will be a Required Note and Allowed to be Printed.
2) Required/Not Printed
New Notes Page will be a Required Note and Not Allowed to be Printed.

3) Not Required/Printed
New Notes Page will Not be a Required Note and Allowed to be Printed.
4) Not Required/Not Printed
New Notes Page will Not be a Required Note and Not Allowed to be Printed.

Parameter ID:7509

Name
RF Timeout Seconds

Parameter Type
System

Level
Global

Value
Specify the number of seconds. [default=180]

Description
TWL RF will auto leave the picking and material handling screens after these many seconds with no user interaction or activity.
This will release possible locks on inventory and bin locations so updates can occur when multiple users are picking, counting, and moving stock in the RF application.
The minimum value is 180 seconds (3 Minutes) with a maximum value of 99999 seconds.

Parameter ID:7511

Name
Assign Country to Lots

Parameter Type
System

Level
Global

Value
No

Description
Options:Yes = Allow/require Country of Origin to be assigned to lot-controlled items. No = Do Not allow/require Country of Origin to be assigned to lot-controlled items.

Parameter ID:7512

Name
Assign Manufacturer Number

Parameter Type
System

Level
Global

Value
No

Description
Options:Yes = Allow/require Manufacturer # to be assigned to lot-controlled items. No = Do Not allow/require Manufacturer # to be assigned to lot-controlled items.

Parameter ID:7513

Name
Assign Case Quantity to Lots

Parameter Type
System

Level
Global

Value
No

Description
Options:Yes = Allow/require Case Quantity to be assigned to lot-controlled items. No = Do Not allow/require Case Quantity to be assigned to lot-controlled items.

Receiving parameters

In TWL Web module, parameters are set to ensure the system is performing according to your company's operational standards. Your tasks are affected by how your TWL administrator set up system parameters. Ensure your TWL administrator has set these parameters to reflect your needs. For your information, task-related parameters are described in this section. The name, parameter type, level, value, and description are provided for each parameter. The default for each parameter is identified as [default].

Parameter ID:0005

Name
Receive Without PO

Parameter Type
Receiving

Level
Global

Value
- No
- Yes [default]

Description
Receive Without PO
Allow receiving without a PO? When a receipt is processed without a PO, TWL will create a new line in PO number 9999. All postings are recorded there.

Parameter ID:0023

Name
Receiving Labels

Parameter Type
Receiving

Level
Global

Value
- No [default]
- Yes

Description
During receiving, can the user select a printer for label printing?

Parameter ID:1011

Name
Close RT Question

Parameter Type
Receiving

Level
Global

Value
- Both [default]
- RT Close/Send Only
- Receiving Only
- Do Not Ask

Description
Close RT
Do you want to close RT when leaving the receiving screen? The question will appear when the user is finished receiving, and leaves the Line Item Selection screen and the RT Close/Send Only screen.
Both
Ask to close on both screens.

RT Close/Send Only
Ask to close only under the RT Close/Send screen.
Receiving Only
Ask to close only under the Receiving screen.
Do Not Ask
Do not prompt the user for closing of a RT.
Do Not Ask

Parameter ID:1017

Name
New Receipt Line

Parameter Type
Receiving

Level
Global

Value
- Yes [default]
- No

Description
When adding a line to a PO, do we send the receipt to the host?
Some hosts will not be able to handle the added line from TWL.

Parameter ID:1021

Name
Cargo Hold Orders

Parameter Type
Receiving

Level
Global

Value
- Yes [default]
- No

Description
Cargo Hold Orders
There are two methods for entering cargo information for orders that are on customs hold prior to shipment.
The first method is to have the receiver on the dock enter the cargo information, and the second is to enter it through the TWL Web module.
Select "Yes" to allow the receiver on the dock to record the cargo information.
Select "No" to require the cargo information to be entered in the TWL Web module.

Parameter ID:1026

Name
Receiving Types

Parameter Type
Receiving

Level
Warehouse

Value
Specify one or more of these values: 1,2,3,4,5,6,7,8,9 [default]

Description
Receiving Types Security
Shown below are the valid receiving types:
1) PO
2) RT
3) Vendor
4) Item Number
5) Alternate Item Number
6) UPC Code
7) Item Description
8) Barcode Settings
9) Shipment ASN
Please enter a comma-separated list of all the receiving types that you wish to accept. To select ALL receiving types, then leave the field blank or enter each number separated by a comma.
Examples:
If you enter: 2
You are indicating that you want to receive only by RT
If you enter: 3,4,6
You are indicating that you want to receive by Vendor, Item Number, or UPC Code

Parameter ID:1041

Name
Full Pallet

Parameter Type
Receiving

Level
Global

Value
- No [default]
- Yes

Description
Default value on full pallet on receiving.

Parameter ID:1044

Name
Allow Receipt Overages

Parameter Type
Receiving

Level
Global

Value
- Don't Allow [default]
- Allow the item percentage
- Allow any overage

Description
How to handle overages on the receiving dock
1) Don't allow
2) Allow the item percentage over
3) Allow any overage

Parameter ID:1045

Name
Item Receiving Zone

Parameter Type
Receiving

Level
Warehouse

Value
- No
- Yes: Accept the default for this parameter. [default]

Description
Ask for the item default zone if it is missing in the item record.

Parameter ID:1046

Name
Expiration

Parameter Type
Receiving

Level
Global

Value
Specify a number of days. [default=1000]

Description
The number of days until the a receipt transaction is marked as old. The value is calculated from the receipt transaction date. Enter 9999 if you do not want to see the warning.

Parameter ID:1047

Name
Add Lines To RT

Parameter Type
Receiving

Level
Global

Value
- No
- Yes [default]

Description
Can the person on the floor add lines when receiving?

Parameter ID:1048

Name
Item Cross Reference

Parameter Type
Receiving

Level
Global

Value
- Reject Item
- Check Cross Reference [default]
- Prompt User

Description
In the receiving screens, the user may enter the item they are receiving. When the item is not found in the purchase order, should the system check the cross reference information for the items.
Options:
Reject Item -
Do not check the cross reference.
Check Cross Reference -
Check the cross reference automatically.
Prompt User -

Ask the user if they want to check the item cross reference.

Parameter ID:1053

Name
Suggest Pallet

Parameter Type
Receiving

Level
Global

Value
- No
- Yes [default]

Description
Suggest a pallet at receiving.

Parameter ID:1056

Name
BOD Kit Receiving

Parameter Type
Receiving

Level
Global

Value
- Kit
- Subcomponents [default]

Description
BOD Kit Receiving
Build on Demand (BOD) kits are made up of different inventory items(components). The kit itself can be considered an inventory item as well though. When you receive the components that make up a kit, TWL needs to know whether to place the kit into inventory or the individual components.
If you choose Kit:
The kit itself will be placed into inventory, and the individual subcomponents will not.
If you choose Subcomponents:
Each individual subcomponent will be placed into inventory, and the kit will not.

Parameter ID:1062

Name
Mark RT Complete

Parameter Type
Receiving

Level
Global

Value
- No
- Yes: Accept the default for this parameter. [default]

Description
Does TWL require the RT to be marked complete?

Parameter ID:1071

Name
Return RT Processing

Parameter Type
Receiving

Level
Warehouse

Value
- No
- Yes [default]

Description
Return RT Processing
A return RT is a specific type of Receipt Transactions sent from the host to TWL. The return RT forces the default status of the inventory to the status set by parameter 6255.
Can the user overwrite the status set by parameter 6255?.
No
The status set by parameter 6255 is used. The user must use the stock adjustment screen to move the item to another status.
Yes
The status set by parameter 6255 is defaulted. The user may overwrite the status with any other status.

Parameter ID:1073

Name
Receipt By Item

Parameter Type
Receiving

Level
Warehouse

Value
- Find RT
- Item Receiving [default]
- Prompt User

Description
Receipt By Item
This parameter is the definition of the RF receiving module, option four (4) under Receipt Inq/Update. The options outline the behavior for item receiving. The options are Find RT, Item Receiving, and Prompt User.
Find RT
Using the item that the receiving clerk has in front of them, find the RT to be received against. The Find RT option allows the user to select the appropriate RT and receive against it.
Item Receiving
If the shipper has consolidated several RTs for the same item into one shipment. The user will be asked the item and received quantity. The user will then select the RT they want to apply some, or all of the inventory towards. If more exists, the user will be allowed to select another RT.
Prompt User
Ask the user which option they desire.

Parameter ID:1088

Name
Receive By Item-Truck ID

Parameter Type
Receiving

Level
Global

Value
- Optional: The truck ID is optional
- Required: The truck ID must be entered [default]
- Disabled: The truck ID will be disabled on the Receive by Item screen

Description
When receiving by item, is the user required or able to enter a truck ID?

Parameter ID:2900

Name
Purchase Orders

Parameter Type
Receiving

Level
Global

Value
- Host [default]
- TWL

Description
Purchase Orders
A purchase order may be separated into many different RTs, each with a different suffix. Depending on the host system, one or more of these suffixes may indicate that a backorder condition exists for the purchase order.
This parameter determines whether the host system or TWL is responsible for maintaining these suffixes.

Parameter ID:6002

Name
Multi-UOM Receiving

Parameter Type
Receiving

Level
Warehouse

Value
- No [default]
- Yes

Description
Multiple UOM During Receiving.
Can the user enter Stock Receipts in an Unit of Measure other than EACH?
If YES, the User can select from any valid Unit of Measure that has been defined in SX.e.
Select if Receiving Multi-UOM can be done:
NO - No UOM Entry, Always EACH.
YES - Receipt by Any Valid UOMs Allowed.

Parameter ID:6003

Name
Hip Printers

Parameter Type
Receiving

Level
Global

Value
- No [default]
- Yes

Description
Hip printers attach directly to the RF unit. If "Yes", then receiving labels will print on the hip printer instead of the Zebra printer
Print receiving labels on the hip printer?

Parameter ID:6251

Name
Receipt Notification

Parameter Type
Receiving

Level
Global

Value
- No: If you are not concerned with errors in cube or weight assignments, accept the default. [default]
- Yes: If you have warehouse limitations or weight considerations, verifying these when the item is received enables you to maximize your warehouse.

Description
During receiving do you want TWL to notify user when an item has an error or errors in the items cube or weight assignment?

Parameter ID:6252

Name
Default Case Receiving Quantity

Parameter Type
Receiving

Level
Warehouse

Value
- Default Quantity = 0
- Default Quantity = 1 [default]

Description
Should TWL default the RF case receiving quantity to 0 or 1?

Parameter ID:6253

Name
Block Scan Truck on Receiving Menu

Parameter Type
Receiving

Level
Global

Value
- No [default]
- Yes

Description
Block Scan Truck on Receiving Menu
No - Allow the entry of a Truck ID in the Receiving menu on the RF.
Yes - Prevent the users from entering a Truck ID in the Receiving menu on the RF.

Parameter ID:6254

Name
Receiving Notes

Parameter Type
Receiving

Level
Global

Value
- No
- Yes [default]

Description
Receiving Notes
When receiving notes or comments exist for a receipt, do you want the user to view them during receiving?

Parameter ID:6255

Name
Return RT Processing

Parameter Type
Receiving

Level
Warehouse

Value
- D – Default From Host
- OK - No Hold Status
- C - Customs Hold
- H - Return Hold [default]
- I - Inventory Hold or Mis-Ship
- O - Overage

- Q - Quality Assurance Hold
- T - Transportation Damage

Description
Return RT Processing
A return RT is a specific type of Receipt Transaction sent from the host to TWL. The return RT forces the default status of the inventory to a status set by this parameter.
Choose the status that will be defaulted in Receiving when a return RT is received.
Determine if the status if forced using parameter 1071.

Parameter ID:6256

Name
Receive To Pallets Using Zone Restrictions

Parameter Type
Receiving

Level
Warehouse

Value
- No
- Yes [default]

Description
During receiving, only allow items that are to be put away in the same zone on the same pallet.
Options:
No = The item zone will be ignored during receiving.
Yes = Standard functionality will apply.

Parameter ID:6257

Name
Item Receiving Sort

Parameter Type
Receiving

Level
Global

Value
- PO
- Qty [default]

Description
During receiving by item number the PO should sorted using the following:
Options:
PO = Sort by the PO number

Qty = Sort By the Quantity left to be received on the PO. Will show over-receipts, under-receipts and full-receipts

Parameter ID:6258

Name
Dock to Stock Receiving

Parameter Type
Receiving

Level
Warehouse

Value
- Enabled: Default is Yes
- Enabled: Default is No
- Disabled: Do not allow [default]

Description
Dock to Stock Receiving.
If enabled, then during the receipt of a purchase order, what is the default value to skip receipt to a pallet and directly receive goods to a warehouse location?
If enabled and "Direct Receipt" is chosen during receiving then the item will be temporarily placed onto a pallet with the Id equal to PO# plus Line#. Standard TWL RF PutAway will then be called to move the item directly into a warehouse location.

Parameter ID:6259

Name
Quantity Field For Line Item Receiving

Parameter Type
Receiving

Level
Global

Value
- Case Qty [default]
- Item Qty

Description
When receiving and you DO NOT use Multi UOM receiving should the cursor default to the Case Qty field or the single Item Qty field?
Parameter 6252 should be set to 1 if you assign this parameter to Item Qty.

Parameter ID:6260

Name
Packing List Receipts

Parameter Type
Receiving

Level
Warehouse

Value
- Disable [default]
- Enable - Sort By PO Number
- Enable - Sort Open POs First

Description
Consolidated Packing List Receipts.
During TWL RF Receiving of Consolidated Packing Lists an Item Can Exist on Multiple POs.
Should the Operator be Prompted to Specify the PO to Receive Against?
1) Disable - Allocate the Receipt to the First PO in the Browse
2) Enable - Prompt for PO (Sorted by PO Number)
3) Enable - Prompt for PO (Sorted with Open POs First)

Parameter ID:6261

Name
Receiving Labels

Parameter Type
Receiving

Level
Global

Value
Specify a number of labels. [default=0]

Description
Receiving Labels
Please enter the number of receiving labels you would like use as the default quantity to print.
If 0 (Zero) then the number of receiving labels to print will be determined by the quantity received.
** Does not apply to serialized items which only print 1 label per serial number.

Parameter ID:6262

Name
Update Item Count if New Receipt

Parameter Type
Receiving

Level
Warehouse

Value
- No [default]
- Yes

Description
During receiving, if a new item is received for the first time should the item last count date be updated with the receipt date?
This will exclude new item receipts from the next days cycle count if assigning cycle counts through the EOD process.
Options:
No = The item will be prioritized and assigned to a cycle count as always.
Yes = The item last count date will be updated with the receipt date and will not be added to any count until the ABC Classification determines the need.

Parameter ID:6263

Name
Cross Dock - Include Demand Quantity

Parameter Type
Receiving

Level
Global

Value
- No
- Yes [default]

Description
During receiving should the SX.e ICSW demand quantity for WT, KP, and VA backorders be included in the Cross Dock quantity calculation?

Parameter ID:6264

Name
Auto Receive ASN

Parameter Type
Receiving

Level
Warehouse

Value
- Yes [default]
- No

Description
Auto Receive an ASN During Auto Receiving.
On the Receiving - Receipt Inq/Update menu, the operator can use the "Shipment ASN" select by option to find and existing ASN to process. Once they select the ASN to process, if they have the ability to Auto Receive the ASN, then they will be prompted with an option to do so.
Select if Auto Receiving an ASN can be done:
NO - Prompt does not display and auto receiving is not allowed.
YES - Prompted to Auto Receive the ASN or not.

Parameter ID:6265

Name
Hold I and T Zones

Parameter Type
Receiving

Level
Warehouse

Value
- NO [default]
- YES

Description
Hold I and T Zone Inventory during Receiving
During Receiving - Certain Zones may be for unavailable inventory and should go to the same status type as the zone code. This applies to "I" Inventory Hold and "T" Transportation Damage zones.
Select if this automatic setting of status from these two zones should be done:
NO - Do not Auto Set the Status
YES - Auto Set the Status for zones "I" and "T".

Shipping parameters

In TWL Web module, parameters are set to ensure the system is performing according to your company's operational standards. Your tasks are affected by how your TWL administrator set up system parameters. Ensure your TWL administrator has set these parameters to reflect your needs. For your information, task-related parameters are described in this section. The name, parameter type, level, value, and description are provided for each parameter. The default for each parameter is identified as [default].

Parameter ID:0003

Name
SCM Order Comments

Parameter Type
Shipping

Level
Global

Value
- No [default]
- Yes

Description
Order Comment Display During Shipping SCM Options
When an order comment exists for an order, do you want the user to view the comment during SCM Create Label and SCM Inquiry on the RF?
The order comment is not the same as the order notes/comments that come down from SX.e. This field is usually used for storing information such as 'Zero Pick' and 'Zero Ship' messages during order dropping.

Parameter ID:1027

Name
Percent Weight Accuracy

Parameter Type
Shipping

Level
Global

Value
Specify a percentage. [default=10]

Description
Enter a value of accuracy for weight on a carton. The carton weight should be within this percent of the weight of the items.
Percentage allow for weight variance in the shipping dock. For example, if it is set to 10 and the carton weights at 100, if user overwrites,the weight can't be under 90 or over 110.

Parameter ID:1058

Name
Print Question

Parameter Type
Shipping

Level
Global

Value
- No [default]

- Yes

Description
When the last line of an order is shipped, do you want to print a the defined printing report? The report is specified in the system parameters.

Parameter ID:1064

Name
Automatic Wave Report

Parameter Type
Shipping

Level
Global

Value
Specify a file name. [default=blank]

Description
Automatic Wave Report
A wave is a grouping of orders to be processed for customers. After all the orders are completed, a summary report can be generated.
Enter the Unix file name to run.

Parameter ID:1065

Name
Reprint Bill of Lading

Parameter Type
Shipping

Level
Global

Value
Specify a file name, such as prn_bol.p. [default=prn_bol.p]

Description
Reprint Bill Of Lading
Due to printer jams, or lost paper work, or through other business reasons, you must be able to reprint Bill of Lading. This system parameter is used for determining the proper Bill of Lading to reprint with.
Enter the Unix file name to run.

Parameter ID:4000

Name
Delete Carton Sortation Pallets

Parameter Type
Shipping

Level
Global

Value
- No [default]
- Yes

Description
Do you want to delete the Pallets used for Carton Sortation after they have been shipped?
This will allow you to reuse the same sortation pallet once it has been shipped.
The carton information will be the only record retained in the system!

Parameter ID:4001

Name
Shipping Notes

Parameter Type
Shipping

Level
Warehouse

Value
- Order notes for all
- Order and line notes for all
- No notes displayed [default]

Description
Display Notes During Shipping
How should notes be displayed during Ship Verification and Ship To Dock on the RF?
The options are...
- Order notes for all orders in carton/pallet
- Order and line notes for all orders in carton/pallet
- No notes displayed

Parameter ID:4002

Name
Order Load Stage Ship All Button

Parameter Type
Shipping

Level
Global

Value
- Off
- Single [default]
- Double

Description
Do you want to enable the "Ship All" button in the exception manager shipping screen for loaded orders?
If "OFF" then the button will not be enabled.
If "Single" then the "Ship All" button will be enabled and the user will be presented with a single confirmation.
If "Double" then the "Ship All" button will be enabled and the user will be presented with two confirmations.

Parameter ID:4003

Name
Close and Print Manifest

Parameter Type
Shipping

Level
Warehouse

Value
- No [default]
- Yes

Description
Do you want the ability to close and print the TWL manifest from the Shipping Screens?
This will give you the ability to close the manifest for the current dock and carrier, print the manifest, and open a new manifest from the shipping screens without having to release the carrier from the dock.
This is only useful if you want to create multiple manifests while retaining the current carrier at the dock.

Parameter ID:8503

Name
Ship Complete: Status Messages

Parameter Type
Shipping

Level
Global

Value
- No Messages [default]

- All Messages
- Only “More cartons...”
- Only “All cartons...”

Description
When ship verifying, the following messages can be displayed to aid in processing ship complete orders:
"Ship Complete: More cartons to follow"
and
"Ship Complete: All Cartons verified"
These messages are designed to alert the shipper that there are more cartons in the ship complete order, or that there are no more cartons in the order.
Which messages should be displayed?

Inventory Control parameters

In TWL Web module, parameters are set to ensure the system is performing according to your company's operational standards. Your tasks are affected by how your TWL administrator set up system parameters. Ensure your TWL administrator has set these parameters to reflect your needs. For your information, task-related parameters are described in this section. The name, parameter type, level, value, and description are provided for each parameter. The default for each parameter is identified as [default].

Parameter ID:0010

Name
QA Release

Parameter Type
Inventory Control

Level
Global

Value
Specify an appropriate code, such as QUASTK. [default=QUASTK]

Description
When inventory is released from Quality Assurance Hold, the default adjustment code for the adjustment.

Parameter ID:0017

Name
Work Center Dept Control

Parameter Type
Inventory Control

Level
Global

Value
- No
- Yes [default]

Description
Work Center Dept Control
Do you want to allow a W.C. user to see Work Orders not for their Department?
No - Only Work Orders for the users assigned department will be available.
Yes - Allow processing of all Work Orders in the warehouse.

Parameter ID:0019

Name
Work Center Labels

Parameter Type
Inventory Control

Level
Warehouse

Value
- No
- Yes [default]

Description
Work Center Label Printing
This is the default response for printing labels in the Work Center?

Parameter ID:0021

Name
Work Center Receiving Method

Parameter Type
Inventory Control

Level
Warehouse

Value
- Item: Default setting
- Pallet
- Choose (Default Item) [default]
- Choose (Default Pallet)

Description
Do you want to receive inventory into the WC by item, by pallet, or be presented with a choice each time you enter the WC receiving module?
If ITEM then standard by Item receiving will be performed.
If PALLET then by Pallet receiving will be performed.
If CHOICE then you will be prompted with the default filled in for easy entry on the RF gun.

Parameter ID:0022

Name
Work Center Picked Status

Parameter Type
Inventory Control

Level
Warehouse

Value
- No
- Yes [default]

Description
Staging of any inventory in a Work Center will change the status of all work orders in the Order Manager to "Picked" when they are in the same batch and consist of a component of the same item.
This will prevent unintentional un-dropping within the Order Manager that could leave inventory in unavailable status.
NO = Allow undrops.
YES = Do not allow undrops by changing the order status to picked.

Parameter ID:1002

Name
Stock Adjustments

Parameter Type
Inventory Control

Level
Warehouse

Value
- No: The discrepancy must be researched and a stock adjustment must be entered to clear the cycle flag.
- Yes: The cycle count flag is cleared. [default]

Description
Do stock adjustments at a given location clear the cycle flag?

Parameter ID:1004

Name
QA To Good Stock

Parameter Type
Inventory Control

Level
Global

Value
Specify an adjustment code, such as WL. We recommend you retain the default for this parameter. [default=WL]

Description
Adjustment code for inventory release from QA Hold to good stock.

Parameter ID:1005

Name
QA To Inventory Hold

Parameter Type
Inventory Control

Level
Global

Value
Specify an adjustment code, such as WL. We recommend you retain the default for this parameter. [default=WL]

Description
Adjustment code for inventory release from QA Hold to Inventory Hold (I).

Parameter ID:1006

Name
QA To Transportation Hold

Parameter Type
Inventory Control

Level
Global

Value
Specify an adjustment code, such as WL. We recommend you retain the default for this parameter. [default=WL]

Description
Adjustment code for inventory release from QA Hold to Transportation Hold (T).

Parameter ID:1007

Name
QA To Returns

Parameter Type
Inventory Control

Level
Global

Value
Specify an adjustment code, such as WL. We recommend you retain the default for this parameter. [default=WL]

Description
Adjustment code for inventory release from QA Hold to Returns (R).

Parameter ID:1008

Name
QA To Liquidation

Parameter Type
Inventory Control

Level
Global

Value
Specify an adjustment code, such as WL. We recommend you retain the default for this parameter. [default=WL]

Description
Adjustment code for inventory release from QA Hold to Liquidation (L).

Parameter ID:1009

Name
QA To QA

Parameter Type
Inventory Control

Level
Global

Value
Specify an adjustment code, such as WL. We recommend you retain the default for this parameter. [default=WL]

Description
Adjustment code for inventory release from QA Hold to QA Hold (Q).

Parameter ID:1022

Name
Kit Build Adjustment Code

Parameter Type
Inventory Control

Level
Warehouse

Value
Specify an adjustment code, such as WR. [default=WR]

Description
When building a kit, what adjustment code to be used. This adjustment code is not associated to any work centers.

Parameter ID:1025

Name
Check Cube

Parameter Type
Inventory Control

Level
Global

Value
- No
- Yes [default]

Description
Verify through a message on the RF put away screen, the cube has been assigned correctly in the system. The cube is checked through both on the item level and location level.
The message will only tell if the cube is not assigned.

Parameter ID:1038

Name
Maintain Four Wall

Parameter Type
Inventory Control

Level
Global

Value
- No [default]
- Yes

Description
Maintain Four Wall
Four wall inventory maintenance requires the system to create a reciprocal inventory adjustment in the discrepancy zone for each inventory adjustment made to a specific inventory location. The net result of this adjustment is always zero.
For example:
Suppose we want to make an adjustment from 5 to 10 at location "A001A", and the discrepancy zone location is "X001X". On the inventory adjustment screen, we adjust the quantity from 5 to 10 at "A001A". The system will then create the reciprocal adjustment from 0 to -5 at location "X001X".
Should the host system be required to create an adjustment order to remove the inventory from the discrepancy zone location?

Parameter ID:1039

Name
Discrepancy Location

Parameter Type
Inventory Control

Level
Global

Value
Specify a location. [default=X001a]

Description
The discrepancy location for the four wall maintenance adjustment. The opposite of the adjustment inventory is maintained here.

Parameter ID:1040

Name
Adjustment Code

Parameter Type
Inventory Control

Level
Global

Value
Specify a location. [default=TWL]

Description
What adjustment code do you want entered for the four-wall adjustment.

Parameter ID:1043

Name
Non-Stock Items

Parameter Type
Inventory Control

Level
Global

Value
- No
- Yes: Accept the default for this parameter. [default]

Description
Allow non-stock item to be received into TWL.

Parameter ID:1085

Name
Cycle Count Days of Week

Parameter Type
Inventory Control

Level
Global

Value
Specify one or more of these values: 2,3,4,5,6 [default]

Description
Cycle Count Days of Week
TWL will generate cycle counts on the days you specify based upon the table below.
For example, if you want counts generated Monday through Friday, enter 2,3,4,5,6.
Code - Day of week
- 1 - Sunday
- 2 - Monday
- 3 - Tuesday
- 4 -Wednesday
- 5 -Thursday
- 6 -Friday
- 7 - Saturday

Parameter ID:1096

Name
ABC Classification

Parameter Type
Inventory Control

Level
Warehouse

Value
- No: Do not exclude the inactive items.
- Yes: Exclude the inactive items. [default]

Description
ABC Classification
When running ABC Classification, should TWL consider all items whether or not they have had shipping activity within the time frame set up for Classification?
If you choose no, then items with no activity in that period will be assigned to a "D" classification. The remaining inventory will be assigned according to the percentages set up on the ABC Parts Classification screen.

Parameter ID:2014

Name
Return to Vendor - Out

Parameter Type
Inventory Control

Level
Global

Value
Specify a code. [default=TWL]

Description
The adjustment code used for return to vendor, adjusting inventory out of the warehouse.

Parameter ID:2015

Name
Return to Vendor - Cancel

Parameter Type
Inventory Control

Level
Global

Value
Specify a code. [default=TWL].

Description
The adjustment code used for canceling return to vendor procedures.

Parameter ID:2800

Name
Cargo Release

Parameter Type
Inventory Control

Level
Global

Value
- No: Accept the default for this parameter. [default]
- Yes

Description
When releasing a cargo receipt from cargo hold, do you create it as a closed release.

Parameter ID:2801

Name
System Cycle Count

Parameter Type
Inventory Control

Level
Global

Value
Specify a number of days. [default=7]

Description
The number of days to maintain a system cycle count wave. When the number of days is expired, a new cycle count wave is created.

Parameter ID:3600

Name
Allow Warehouse Zone Changes

Parameter Type
Inventory Control

Level
Warehouse

Value
- No [default]
- Yes

Description
Should TWL allow user to change the warehouse zone of a location?

Parameter ID:3601

Name
Printing ABC Report

Parameter Type
Inventory Control

Level
Global

Value
- No
- Yes: Accept the default for this parameter. [default]

Description
Allow printing of the ABC report when end of day (EOD) is processed.

Parameter ID:3602

Name
Updating ABC Table

Parameter Type
Inventory Control

Level
Global

Value
- No
- Yes: If you are using ABC classification, accept this default. [default]

Description
Allow the automatic update of the ABC codes in the ABC field of the Item Master or Location Master when end of day (EOD) is processed.

Parameter ID:3603

Name
Multi_UOM Counting

Parameter Type
Inventory Control

Level
Global

Value
- No [default]
- Yes

Description
Multiple UOM During Cycle & Physical Count
This parameter, if activated, allows the user to enter any valid Unit of Measure defined in SX.e into Inventory Control, Cycle, and Physical Counting programs.
NO - No UOM Entry, Always EACH
YES - Count by Any Valid Item_UOMs Allowed.

Parameter ID:3604

Name
Inventory Control - Multiple UOM

Parameter Type
Inventory Control

Level
Warehouse

Value
- No [default]
- Yes

Description
Inventory Control - Multiple UOM.
Can the user enter quantities in alternate units of measure in the RF Inventory Control and Material Handling Modules?
If YES, the User can select from any valid unit of measure that has been defined in SX.e. The programs affecting include Stock Adjustments, Stock Movement, One Step Replenishment, and Unplanned Replenishment.
Select if Multi-UOM processing can be done:
NO - No UOM Entry, Always EACH.
YES - Any Valid UOMs Allowed.

Parameter ID:3606

Name
Pick/Pack Serial Scan Confirmation

Parameter Type
Inventory Control

Level
Global

Value
- No
- Yes [default]

Description
Disabling this parameter allows one to avoid an additional confirmation scan on the serial number during picking and packing.

Parameter ID: 3607

Name
Receive/PutAway Serial Scan Confirmation

Parameter Type
Inventory Control

Level
Warehouse

Value
- No [default]
- Yes

Description
Disabling this parameter allows one to avoid an additional confirmation scan on the serial number during Receiving/PutAway.

Parameter ID:3608

Name
Work Center Inventory Update

Parameter Type
Inventory Control

Level
Warehouse

Value
- No [default]

- Yes

Description
Do you want to wait until the pallet is released from the WC and the inventory is available before updating SX.e with the "RCV" transaction?
If NO then the "RCV" transaction will be created when the Work Order is completed and not yet available for use.
If YES then the "RCV" transaction will be created when the pallet is released from the WC and the inventory is available.

Parameter ID:3609

Name
Physical - Skip ‘By’

Parameter Type
Inventory Control

Level
Global

Value
- No
- Yes [default]

Description
Skip the ‘By’ on the Physical Inventory Selection screen?
NO - User will be allowed to change 'By' and will also need to enter through when not changing.
YES - 'By' will be automatically entered through by the system.

Parameter ID:3610

Name
Physical - Skip ‘Labels?’

Parameter Type
Inventory Control

Level
Warehouse

Value
- No
- Yes [default]

Description
Skip the ‘Labels?’ on the Physical Inventory Initial Data Load screen?
NO - User will be allowed to print 'Labels?' and will also need to enter through when not changing.
YES - 'Labels?' will be automatically entered through by the system.

Parameter ID:3611

Name
Physical - Skip ‘Set PP?’

Parameter Type
Inventory Control

Level
Global

Value
- No
- Yes [default]

Description
Skip the ‘Set PP?’ on the Physical Inventory Initial Data Load screen?
NO - User will be allowed to print 'Labels?' and will also need to enter through when not changing.
YES - 'Labels?' will be automatically entered through by the system.

Parameter ID:3612

Name
Overwrite Existing Item XREF

Parameter Type
Inventory Control

Level
Warehouse

Value
- No [default]
- Yes

Description
Do you want to allow an existing item cross reference (XREF) to be assigned to a new item?
If NO then a hard stop will not allow the overwrite of the existing XREF for another item.
If YES then you will be prompted to overwrite the existing XREF for another item.

Parameter ID:3613

Name
P.P.- Overwrite of Item Zone?

Parameter Type
Inventory Control

Level
Global

Value
- No
- Yes [default]

Description
Options:
No = Do not allow any change to the item zone setup when changing the primary pick locations for the item.
Yes = Prompt for the change to the item zone setup when changing the primary pick locations for the item.

Parameter ID:3614

Name
ABC Classification Minimum Count

Parameter Type
Inventory Control

Level
Global

Value
Specify a minimum number. [default=0]

Description
ABC Classification Minimum Count
The minimum number of picks or hits in order to be classified.
A value of Zero "0" does not require a minimum value to be classified.
Items or Bins not meeting this minimum will be ranked as a "D" class.

Parameter ID:3615

Name
System Cycle Count Waves

Parameter Type
Inventory Control

Level
Global

Value
- No [default]
- Yes: Activate the automated cycle count.

Description
Do you want the RF software to auto create a daily System Cycle Count as discrepancies happen? This should only be enabled if you will not be reviewing and creating Cycle Counts from discrepancies - neither manually nor through EOD.

Parameter ID:3616

Name
WC Outbound Serial Components

Parameter Type
Inventory Control

Level
Global

Value
- No
- Yes [default]

Description
WorkCenter Kit Component Outbound Serial Capture
Do you want to capture the serial number for kit components used to create the parent kit if they are setup to only track outbound (sale)?
If "yes" then serial history records will be created for the Work Order detailing what serial number(s) were used for the kit components
This is the only opportunity to capture outbound serial history before the kit components are removed from inventory to create the parent kit product.

Put Away parameters

In TWL Web module, parameters are set to ensure the system is performing according to your company's operational standards. Your tasks are affected by how your TWL administrator set up system parameters. Ensure your TWL administrator has set these parameters to reflect your needs. For your information, task-related parameters are described in this section. The name, parameter type, level, value, and description are provided for each parameter. The default for each parameter is identified as [default].

Parameter ID:1079

Name
Invalid Putaway Location Types

Parameter Type
Put Away

Level
Global

Value
Specify one or more of these values: B,C,F,P,S,T [default=blank]

Description
Invalid Putaway Location Types

Enter the types of locations where the system will not suggest a putaway.
Example, enter B,T to exclude all Bulk and Stage locations.
Type - Description
B - Bulk
C - Carousel
F - Flow Rack
P - Pallet
S - Shelf
T - Stage

Parameter ID:1081

Name
Suggest Quantity

Parameter Type
Putaway

Level
Warehouse

Value
- Zero: The blind putaway option; the user must enter the putaway quantity. [default]
- Suggested Quantity: Select to have the suggested putaway quantity displayed.

Description
Should the suggested quantity or a zero be displayed at Exp. Quantity when processing a putaway transaction?

Parameter ID:1090

Name
Suggest Putaway Stock Movement

Parameter Type
Put Away

Level
Global

Value
- No: Do not assign suggested putaway location. Accept this default for this parameter. [default]
- Yes: Assign suggested putaway location.

Description
Suggest Putaway Stock Movement
Should TWL assign the suggested putaway location after completing a stock movement?

Parameter ID:1091

Name
Suggest Putaway Pallet Movement

Parameter Type
Put Away

Level
Global

Value
- No: Do not assign suggested putaway location. Accept the default for this parameter. [default]
- Yes: Assign suggested putaway location.

Description
Suggest Putaway Pallet Movement
Should TWL assign the suggested putaway location after completing a pallet movement?

Parameter ID:1092

Name
Suggest Putaway Production Staging

Parameter Type
Put Away

Level
Global

Value
- No: Do not assign suggested putaway location. Always accept the default for this parameter. [default]
- Yes: Assign suggested putaway location.

Description
Suggest Putaway Production Staging Release
Should TWL assign the suggested putaway location after completing a production staging release?

Parameter ID:1093

Name
Suggest Putaway Receiving

Parameter Type
Put Away

Level
Global

Value
- No: Do not assign suggested putaway location. Accept the default for this parameter. [default]

- Yes: Assign suggested putaway location.

Description
Suggest Putaway Receiving
Should TWL assign the suggested putaway location after completing receiving?

Parameter ID:1094

Name
Suggest Putaway Pallet Transfer

Parameter Type
Put Away

Level
Global

Value
- No: Do not assign suggested putaway location. Accept the default for this parameter. [default]
- Yes: Assign suggested putaway location.

Description
Suggest Putaway Pallet Transfer
Should TWL assign the suggested putaway location after completing a pallet transfer?

Parameter ID:1095

Name
Suggest Putaway Close RT

Parameter Type
Put Away

Level
Global

Value
- No: Do not assign suggested putaway location. Accept the default for this parameter. [default]
- Yes: Assign suggested putaway location.

Description
Suggest Putaway Close R.T.
Should TWL assign the suggested putaway location after closing a receipt transaction?

Parameter ID:5750

Name
Create Top Offs During Putaway

Parameter Type
Put Away

Level
Global

Value
- Yes
- No [default]

Description
During the putaway process, should TWL look at quantity in primary pick locations and suggest topping off those locations from inventory arriving at the dock?
Potential issues by doing this are:
1. FIFO logic could possibly be sacrificed while performing replenishments.
2. Split case quantities could be generated in bulk locations.

Parameter ID:5752

Name
Item Scan at Putaway

Parameter Type
Put Away

Level
Warehouse

Value
- No
- Yes [default]

Description
Item Scan at Putaway
Should TWL force the user to scan each item during putaway?

Parameter ID:5755

Name
Putaway Multi-UOM

Parameter Type
Put Away

Level
Warehouse

Value
- No [default]
- Yes

Description
PutAway Confirmation - Multiple UOM.

Can the user enter quantities in alternate units of measure during Receiving PutAway?
If YES, the User can select from any valid unit of measure that has been defined in SX.e.
Select if Multi-UOM processing can be done:
NO - No UOM Entry, Always EACH.
YES - Any Valid UOMs Allowed.

Parameter ID:5756

Name
Serpentine Putaway

Parameter Type
Put Away

Level
Warehouse

Value
- No
- Yes [default]

Description
Should TWL force serpentine during the putaway process?

Parameter ID:5757

Name
Putaway Sort Order RF Prompt

Parameter Type
Put Away

Level
Warehouse

Value
- Disable [Zone Alpha Asc]: Retain this default and the system does not prompt you for a sort method. The sort is based on the warehouse zone putaway sequence, and items are sorted alphabetically in ascending order. You cannot override the location suggested by the system. [default]
- Zone Alpha Asc: The sort method is based on the warehouse zone and items are sorted alphabetically in ascending order.
- Zone Alpha Desc: The sort method is based on the warehouse zone and items are sorted alphabetically in descending order.
- Zone Sequence: The sort method is based on the warehouse zone and items are sorted by the put-away sequence.
- Pallet LIFO: The sort method is based on the order items are put on the pallet. The last item on is the first item taken off the pallet.
- Item Num: The sort method is based on the item number, which is sorted alpha-numerically.

Description
PutAway Item Sort Order
During TWL RF Material Handling, Stock PutAway, in what order will items be taken off the pallet?
1) Disable Prompt During RF PutAway, Use Warehouse Zone Alpha Sort Asc.
2) By Warehouse Zone, Alpha Sort Ascending.
3) By Warehouse Zone, Alpha Sort Descending.
4) By Warehouse Zone, PutAway Sequence.
5) Item Pallet Order, Last Item on, First Off.
6) Item Number, Alpha/Numeric Sort.
This parameter controls the default sort value, which can be over-ridden by the User during TWL RF PutAway, unless disabled by choosing option 1 above.

Parameter ID:5758

Name
Allow Putaway Prior to RT Close

Parameter Type
Put Away

Level
Global

Value
- No
- Yes [default]

Description
Do you want to allow employees to begin PutAway of inventory prior to the RT being closed?
If multiple RT's for the same item are consolidated on the pallet you will not be able to perform PutAway until all RT's for the item in question have been closed.

Parameter ID:5759

Name
Allow Over PutAway

Parameter Type
Put Away

Level
Warehouse

Value
- No [default]
- Yes

Description
Do you want to allow employees to putaway more inventory than exists on the putaway pallet?
If NO a warning will be displayed and the user cannot exceed the inventory quantity on the pallet.

If YES the user can putaway more inventory than the pallet quantity.

Appendix D: Initial physical inventory

We recommend that, before going live, you run an initial physical inventory. An initial physical inventory requires you shut down your TWL warehouse and involves a four-wall count of everything in your TWL warehouse, including empty locations. Because TWL is responsible for the product quantities, you must use the counting functions in TWL rather than the Distribution SX.e system counting functions.

When the results of the physical inventory are sent to the Distribution SX.e system, the quantities entered during the physical count are considered to be the true quantity and existing discrepancies are cleared. Running an initial physical inventory enables TWL to begin operations with a clean slate and the inventory quantities on the two systems are synchronized.

Starting your TWL installation with accurate data is vital to the success of refining the information contained in your database. In order to accomplish starting with accurate data, you must take an initial physical inventory.

Initial Physical Inventory

Ensure you have initialized your warehouse and completed all setups in TWL, including setting up all of your products and locations. You can generate the **WL Audit Inventory Report** to balance the on hand and unavailable quantities in **Product Maintain Balances Entry** to the quantities recorded in TWL.

The **WL Audit Inventory Report** looks at all stocked products, with the exception of labor products, and lists the out-of-balance products and quantities recorded in both systems. Any exception errors, which can prevent updates, and any edit errors, which can occur because of timing differences between the two systems, are included on the report. With this information, you can research the errors and discrepancies to determine the source of the problem. Then, you can run the **WL Audit Inventory Report** again in update mode to generate transactions to balance the quantities between the system and TWL.

Create the initial physical inventory request from the TWL Web module, in **TWL Execution-Physical Inventory**. Then, your RF operator can access the necessary RF screens and perform the initial physical inventory.

The initial physical inventory is designed to record everything in the warehouse, even if discrepancies are found. For example, although multiple products can be stored in a random location, primary locations are typically dedicated to a specific product. If multiple products are found in one primary location during the initial physical inventory, each product and quantity must be captured by the system. Even though

the multiple products are tracked by TWL in a primary location, a picker is only directed to the primary pick location by TWL for the product that the location was assigned. We recommend you avoid a scenario with multiple products in primary locations. After you are live, stock moves must be performed to relocate the additional products.

The first portion of the initial physical inventory count involves auditing your inventory to ensure the bin locations contain the correct products and quantities. The second portion of the initial physical inventory count involves balancing the inventory.

The initial physical inventory count differs from a regular physical inventory count because the initial physical inventory maps products to their locations; there is no initial inventory to verify quantities on. Running an initial physical inventory enables you to know what you have in your warehouse and precisely where to locate quantities of a specific product at all times. Knowing what you have and where to locate quantities is especially important when random storage locations are involved. This is because the only time those locations are recorded in the system is when you run an initial physical inventory. A regular physical inventory does not serve this purpose.

Discrepancies are not recorded for an initial physical inventory because there is nothing in the system to compare a quantity against.

The initial physical inventory function populates the TWL records with inventory quantities and updates **Product Warehouse Product Setup** records in the system.

The initial physical inventory does not have data with which to compare quantities and locations. Therefore, you cannot inquire on the progress of the counting function as you can when a regular physical inventory is being performed.

See the Counting documentation in the *Infor Distribution SX.e Total Warehouse Logistics User Guide for Handling, Counting, and Balancing*.

Use the instructions in the Counting documentation for performing a physical inventory to perform your initial physical inventory.

Appendix E: Integrating TWL with Enterprise Printing Platform

This section provides information about the setups and configurations that are required to print TWL labels using Enterprise Printing Platform (EPP).

You can use Enterprise Printing Platform to print labels in CloudSuite Distribution or on-premises Distribution SX.e.

See Enterprise Printing Platform for CloudSuite Distribution on page 219 or Enterprise Printing Platform for on-premises Distribution SX.e on page 224.

Label types

The data that is used for each label depends on the functional area from which the label is printed. Because the printer name and label name are distinct data fields, you can print the same label from different printers of the same type. If you change a printer ID on the master record in **TWL Administration-Printer**, then the corresponding label setup data automatically changes to the new printer ID.

This table shows the label types, the function from which the label is initiated, the keydata that is used to retrieve data for the label, and the tables from which keydata fields are obtained.

Label Type	Initiated From	Keydata	Tables
Carton_2by4	TWL Web TWL Configuration Label Printing Select Carton 2x4	Carton_id	No extra data
Carton_4by6	TWL Web TWL Configuration Label Printing Select Carton 4x6	Carton_id	No extra data

Label Type	Initiated From	Keydata	Tables
Inventory_2by3	TWL Web TWL Configuration Label Printing Select Inventory 2x3	bin_num abs_num pallet_id	Item Bin PalletMst Inventory
Inventory_2by4	TWL Web TWL Configuration Label Printing Select Inventory 2x4	bin_num abs_num pallet_id	Item Bin PalletMst Inventory
Item_2by3	TWL Web TWL Configuration Label Printing Select Item 2x3	abs_num	No extra data
Item_2by4	TWL Web TWL Configuration Label Printing Select Item 2x4	abs_num	No extra data
Location/ Bin_2by4	TWL Web TWL Configuration Label Printing Select Location 2x4 Standard No Arrow	bin_num	binmst inventory item palletmst
Location/ Bin_2by4	RF Inventory Control Item Maintenance Loc. Update Specify valid location Print Label = Yes 2x4 No Arrow	bin_num	binmst inventory item palletmst

Label Type	Initiated From	Keydata	Tables
Location/Bin_2by4_up	RF Inventory Control Item Maintenance Loc. Update Specify valid location Print Label = Yes 2x4 Up Arrow	bin_num	binmst inventory item palletmst
Loca-tion/Bin_2by4_down	RF Inventory Control Item Maintenance Loc. Update Specify valid location Print Label = Yes 2x4 Up Arrow	bin_num	binmst inventory item palletmst
Loca-tion/Bin_2by4_narrow	TWL Web TWL Configuration Label Printing Select Location 2x4 Narrow	bin_num	binmst inventory item palletmst
Loca-tion/Bin_2by4_narrow	RF Inventory Control Item Maintenance Loc. Update Specify valid location Print Label = Yes 2x4 Narrow No Arrow	bin_num	binmst inventory item palletmst
Location/ Bin_4by6	TWL Web TWL Configuration Label Printing Select Location 4x6 Standard No Arrow	bin_num	binmst inventory item palletmst

Label Type	Initiated From	Keydata	Tables
Location/ Bin_4by6	RF Inventory Control Item Maintenance Loc. Update Specify valid location Print Label = Yes 4x6 No Arrow	bin_num	binmst inventory item palletmst
Location/Bin_4by6_up	TWL Web TWL Configuration Label Printing Select Location 4x6 Standard Up Arrow	bin_num	binmst inventory item palletmst
Location/Bin_4by6_up	RF Inventory Control Item Maintenance Loc. Update Specify valid location Print Label = Yes 4x6 Up Arrow	bin_num	binmst inventory item palletmst
Loca- tion/Bin_4by6_down	TWL Web TWL Configuration Label Printing Select Location 4x6 Standard Down Arrow	bin_num	binmst inventory item palletmst
Loca- tion/Bin_4by6_down	RF Inventory Control Item Maintenance Loc. Update Specify valid location Print Label = Yes 4x6 Down Arrow	bin_num	binmst inventory item palletmst

Label Type	Initiated From	Keydata	Tables
Location/ Bin_1by4	TWL Web TWL Configuration Label Printing Select Location 1x4 Standard	bin_num	binmst inventory item palletmst
Location/ Bin_1by4	RF Inventory Control Item Maintenance Loc. Update Specify valid location Print Label = Yes 1x4 No Arrow	bin_num	binmst inventory item palletmst
Order Drop	In parameter 0025, “-label” is specified after the program name,+ and parameter 2025 is Yes	batch emp_num is NOT set	Ordhdr Orddtl Item Wave Carrier Order_Class
Pallet_2by4	TWL Web TWL Configuration Label Printing Select Pallet 2x4	pallet_id	No extra data
Pallet_4by6	TWL Web TWL Configuration Label Printing Select Pallet 4by6	pallet_id	No extra data
Physical Inventory	RF Inventory Control Physical Inventory Physical Inventory	rt_date rt_by lot abs_num	Item Inventory Binmst palletmst

Label Type	Initiated From	Keydata	Tables
Physical Inventory	RF Inventory Control Physical Inventory Initial Data Load	rt_date rt_by lot abs_num	Item Inventory Binmst palletmst
Picking	RF Picking If parameter 1019 is set to a Enterprise Printing Platform label printer	abs_num batch Orddtl order order_suffix order_line bin_num	Ordhdr Item Wave Carrier Order_Class
Picking	RF Picking If parameter 1019 is set to a hip printer	abs_num batch order Orddtlorder_suffix order_line bin_num	Ordhdr Orddtl Item Wave Carrier Order_Class
Primary Pick	TWL Web TWL Configuration Label Printing Select Primary Pick	bin_num	binmst inventory item palletmst
Receiving	TWL Web TWL Configuration Inventory Detail Select Item to View Toolbar Print Receiving Labels	rt_date rt_by rt_num rt_quantity lot abs_num serial_num pallet_id vendor_id vendor_name	item Inventory Binmst palletmst

Label Type	Initiated From	Keydata	Tables
Receiving	RF Receiving Receipt Inq/Update Line Item Receiving Labels = Yes AND System/Warehouse Parameters Receiving Pallet ID field set to Pre-Printed	rt_date rt_by rt_num rt_quantity lot abs_num serial_num pallet_id vendor_id vendor_name	item Inventory Binmst palletmst
Receiving	RF Receiving Label Reprint	rt_date rt_by rt_num rt_quantity lot abs_num serial_num pallet_id vendor_id vendor_name	item Inventory Binmst palletmst
Receiving	RF Material Handling Label Reprint	rt_date rt_by rt_num rt_quantity lot abs_num serial_num pallet_id vendor_id vendor_name	item Inventory Binmst palletmst

Label Type	Initiated From	Keydata	Tables
Receiving	RF Material Handling Label Reprint	rt_date rt_by rt_num rt_quantity lot abs_num serial_num pallet_id vendor_id vendor_name	item Inventory Binmst palletmst
Receiving** **Only for legacy hip printer labels	RF Receipt Inq/Update Line Item Receiving Labels = Yes AND printer queue/command selected begins hip. [Rules for when hip printer labels are print-ed]		
Receiving with Pallet	RF Receiving Receipt Inq/Update Line Item Receiving Labels = Yes AND System/Warehouse Pa-rameter Receiving Pallet ID field is set to System Assigned	rt_date rt_by rt_num rt_quantity lot abs_num serial_num pallet_id vendor_id vendor_name	item Inventory Binmst palletmst

Label Type	Initiated From	Keydata	Tables
Shipping SCM	During Picking, if parameter 7005 is set to Auto print SCM labels and a printer is set up in SCM Print in the carrier setup. It needs to be a new carton to print a label	pro_num carton_id scm_id	Pick Palletmst [if ship pallet] Ordhdr Orddtl oeeh oeel oeelk Item icsec, customer cross-reference records only Wave Carrier Order_Class wtel Cartonmst is not retrieved as it is created during picking and probably does not exist Carton_id is available in KeyData

Label Type	Initiated From	Keydata	Tables
Shipping SCM	RF Shipping Printing Menu Create SCM Label	pro_num carton_id scm_id	Pick Palletmst [if ship pallet] Ordhdr Orddtl oeeh oeel oeelk Item icsec, customer cross-reference records only Wave Carrier Order_Class wtel Cartonmst is not retrieved as it is created during picking and probably does not exist Carton_id is available in KeyData
Tote_2by4	TWL Web TWL Configuration Label Printing Select Tote 2x4	tote_id	No extra data
Tote_4by6	TWL Web TWL Configuration Label Printing Select Tote 4x6	tote_id	No extra data

Dictionary file

The dictionary file, `twl.ldd`, provides a list of data that is available to the Barcode Label Designer in Enterprise Printing Platform. The `twl.ldd` file is used by the executable file when you print labels.

Use the **SA Default Label Retrieval** report to retrieve the default label format files for the Zebra 105 S and the `twl.ldd` file. You must load the retrieved files in folders at your Enterprise Printing Platform installation area and into Enterprise Printing Platform. You can use the label templates as a basis to create custom labels using the Barcode Label Designer.

Before you load the `twl.ldd` file into Enterprise Printing Platform, edit the file to delete fields that you do not use. Reducing the file size improves the performance of the label designing process in the Enterprise Printing Platform.

The `twl.ldd` file includes this type of data:

- Keydata

  Keydata is used to retrieve data that is displayed on the label. Keydata can also be displayed on a label. Keydata is set by the function that calls the label program. For example, a carton label print request sets the keydata.carton_id so that the label program knows which carton to retrieve the carton tables for.
- Standard table field values

  The field values that are available are from the tables that are listed in the Label Types table.

  See Label types on page 207.
- Calculated fields

  Calculated fields are created from other data fields. The tables for calculated fields start with `xx`. They are calculated if the table they are from is retrieved for the label type. For example, `xxbinmst.bin_num_formatted` is available only if the `binmst` table is retrieved for the label type.

  See Calculated fields on page 217.

Not all of the keydata or the xx* data is available for every label type. The type of data available depends on the type of label being printed. For example, if you are printing a new carton label, there is no order number, so the order field is blank.

Calculated fields

Calculated fields are created from other data fields. The tables that contain calculated fields start with xx*. The fields are calculated if the xx table is retrieved for the label type. For example, the `xxbinmst.bin_num_formatted` field is available and calculated if the `binmst` table is retrieved for the label type.

This list shows the tables that contain calculated fields:

- `Binmst` (`xxbinmst`)
  - `bin_num_formatted`: Formatted `binmst.bin_num` field that is based on System Parameter 2702.
  - `prim_pick_type_string`: Description of `binmst.prim_pick_type` instead of a single character. For example, S = Split, F = Full, C = Counter, P = Pallet, else = Unknown.
  - `loc_type_string`: Description of `binmst.loc_type` instead of a single character. For example, T = Stage, S = Shelf, P = Pallet, F = Flow Rack, B = Bulk, else = Unknown.
- `Item` (`xxitem`)

These formatted bin fields are based on System Parameter 2702:

- `bin_num_counter` and `bin_num_counter_formatted`: Counter primary pick location for the item.
- `bin_num_full` and `bin_num_full_formatted`: Full primary pick location for the item.
- `bin_num_pallet` and `bin_num_pallet_formatted`: Pallet primary pick location for the item.
- `bin_num_split` and `bin_num_split_formatted`: Split primary pick location for the item.

- `ordhdr` (`xxordhdr`)

  When an address line does not contain a value, it is not shown as a blank line on the label. Instead, the subsequent lines are moved up. For example, if the address line C does not contains a value, address line D is printed in the address line C position on the label.

  When you use an address_line_E_*_always field, the country is always displayed even if it matches the `SASC` country. Otherwise, the country is not displayed if the country matches the `SASC` country.

  - address_line_A and address_line_A_uppercase
  - address_line_B and address_line_B_uppercase
  - address_line_C and address_line_C_uppercase
  - address_line_D and address_line_D_uppercase
  - address_line_E_country and address_line_E_country_uppercase
  - address_line_E_country_always and address_line_E_country_uppercase_always
  - carrier_service: ordhdr.carrier
  - order_number_and_suffix: Order and suffix with a dash to separate the values. For example, o123123123-01.
  - ship_city_state_zip: City, state and zip code on one line. For example, City, ST 99999.
  - ship_city_state: city and state on one line. For example, City, ST.
  - line_count: Count of all lines on the order in TWL.
  - item_count: Sum of requested quantity on all lines on the order in TWL
  - pick_count: Number of picks for the order.
  - pick_zone_aisles: List of zones/aisles for existing picks.
  - scm_prod: Shipping Container Marking (SCM) product, based on carton and customer (`ARSC`) data. It can be a combination of values.
  - scm_desc: SCM descriptions, based on carton and product (`ICSP`) data.
  - scm_upc: SCM UPC, based on carton, product (`ICSP`), warehouse product (`ICSW`), and UPC number (`ICSV`) data.
  - scm_qty: SCM quantity, based on carton quantity.
  - wttierush_or_custpo: Tied order with rush indicator if a warehouse transfer, otherwise the customer purchase order.

- `whmst` (`xxwhmst`)

  When an address line does not contain a value, it is not shown as a blank line on the label. Instead, the subsequent lines are moved up. For example, if the address line C does not contains a value, address line D is printed in the address line C position on the label.

  When you use an address_line_E_*_always field, the country is always displayed even if it matches the `SASC` country. Otherwise, the country is not displayed if the country matches the `SASC` country.

  - address_line_A and address_line_A_uppercase
  - address_line_B and address_line_B_uppercase

- address_line_C and address_line_C_uppercase
- address_line_D and address_line_D_uppercase
- address_line_E_country and address_line_E_country_uppercase
- address_line_E_country_always and address_line_E_country_uppercase_always
- ship_city_state_zip: City, state and zip code on one line. For example, City, ST 99999.
- ship_city_state: city and state on one line. For example, City, ST.

Concatenated fields

Concatenated fields are supported for barcode labels. In TWL, you can send the data required for fields used in a concatenation formula on labels. You must define the data fields that are used by creating concatenated fields in the Barcode Label Designer in Enterprise Printing Platform. Only the fields available to that label type can be used for the concatenation formula.

The Data Name of the concatenated fields cannot contain a period. After the data dictionary files, `twl.ldd`, are changed to add your concatenated fields, place these files in the Labels folder within the Enterprise Printing Platform executable directory. You can only create a single level of concatenated fields. You cannot create a concatenation that contains another concatenation.

Enterprise Printing Platform for CloudSuite Distribution

If you use TWL in CloudSuite Distribution, you must use Enterprise Printing Platform to print labels. Special software, setups, and configurations are required to perform label printing. Label printing requires Infor ION to communicate with the Enterprise Printing Platform application.

See *Infor CloudSuite Distribution Configuration Guide*.

Note: Enterprise Printing Platform does not interface to the ONeil hip printers for printing labels during picking or receiving tasks.

Label printing workflow

1. Operators print Enterprise Printing Platform labels from the RF, or warehouse managers print labels from **TWL Configuration-Label Printing**. Labels may also be printed during order drop, based on Parameter 0025 Pick Ticket/Label Program and Parameter 2025 Pick Ticket/Label Print.
2. Each printing action creates one or more SXFileTransport BODs in a predefined outbox located on your specified local server.
3. The **Report Scheduler** process, running in the cloud, sends the SXFileTransport BOD from the outbox to the **ION Enterprise Connector** using a REST call.
4. The **ION Enterprise Connector**, running on your specified server, places the SXFileTransport BOD in a predefined destination location on your specified local server.

5 The Infor **Distribution Cloud Connector** service, running on your specified local server, takes the SXFileTransport BOD xml and parses out the ULD format files contained within and places them in the Enterprise Printing Platform fileDrop folder, located in the Enterprise Printing Platform application running on your specified server.

6 At this point, Enterprise Printing Platform takes over. The fileDrop service processes the ULD format file for the print request and prints the request to the designated printer.

Required products

You must install and configure this software locally to print TWL labels in CloudSuite Distribution:

- Enterprise Printing Platform 10.0.0.2.811 or later

  You can download Enterprise Printing Platform from the Infor Product Download Center. An Infor license for Enterprise Printing Platform is required to perform the download.

  To install and use Enterprise Printing Platform, a license key is required. You can obtain a license key by requesting a software key on Infor Concierge. Each time you upgrade to a new version, you must request a new software key.
- ION Enterprise Connector
- Infor Distribution Cloud Connector service
- Java 1.8 or later

  It must be installed on the same server where Infor Distribution Cloud Connector service is run.

  The JDK version is required for the Infor ION Enterprise Connector. The JRE version is required for the Infor Distribution Cloud Connector service.

Implementing label printing

Follow this checklist to perform the tasks to implement label printing:

	Task	Reference
❑	Install the **ION Enterprise Connector** and the Infor **Distribution Cloud Connector**. Import the SXFileTransfer BOD.	*Infor ION Desk User Guide-Cloud Edition* and *Infor CloudSuite Distribution Configuration Guide*
❑	Add the SXFileTransport BOD to the CloudSuite Distribution connection point.	*Infor CloudSuite Distribution Configuration Guide*
❑	Import the solution xml.	Importing and configuring the solution XML on page 221
❑	Install Enterprise Printing Platform	Installing Enterprise Printing Platform on page 221
❑	Set up the label printer in Enterprise Printing Platform	Setting up the label printer in Enterprise Printing Platform on page 222

	Task	Reference
❑	Set up the designated label printer in **TWL Administration-Printer**.	Setting up the label printer in TWL on page 222
❑	Set up warehouse parameters.	Setting up warehouse parameters on page 222
❑	Set up Enterprise Printing Platform labels.	Setting up labels on page 223
❑	Load Enterprise Printing Platform label templates and dictionary files.	Loading default label and dictionary files on page 223
❑	Upload the label templates to Enterprise Printing Platform.	Enterprise Printing Platform documentation
❑	Verify the data flow and label printing.	Verify the data flow on page 224
❑	Review label and printer setup information.	Reviewing label and printer setup information on page 228

Importing and configuring the solution XML

Download and import the solution XML to ION, and then configure the document flow and connection point based on your enterprise location.

1. Download the `EnterprisePrintingPlatformSample.xml` solution file from KB article 1887404 on the Infor Support Portal.
2. In ION Desk, click **Model > Connect > Data Flows**.
3. Click **Import**.
4. Browse and select `EnterprisePrintingPlatformSample.xml`.
5. Click **OK**
6. Edit the CSDFileTransport_DF Document flow.
   a. Add the CSD Application Connection Point to the CSD Application. to import the connections, document flows, and mappings from the file.
   b. Add the SXFileTransportLoc File Connector to the SXEFileTransport File Activity.
7. Save and then activate the CSDFileTransport_DF Document Flow.

   See the *Infor ION Desk User Guide-Cloud Edition* to import the connections, document flows, and mappings.

Installing Enterprise Printing Platform

Install Enterprise Printing Platform in a location where the Infor **Distribution Cloud Connector** service can write to the fileDrop folder. Enable the File Drop input agent, which points this service to a specified polling directory. Use the default folder name of fileDrop. Assign Read/Write permissions to the PR_Serviceuser in the shared fileDrop folder.

See the Enterprise Printing Platform documentation.

Setting up the label printer in Enterprise Printing Platform

See Enterprise Printing Platform documentation for instructions to set up the designated printer. The logical name of the printer in the Enterprise Printing Platform must correspond to the printer name in **TWL Printer Setup** in **TWL Administration-Printer**.

Setting up the label printer in TWL

1. Select **TWL Administration > Printer**.
2. Specify a TWL warehouse in the **Search** field.
3. Click **New**.
4. Specify the printer, and then click **Save**.
5. Specify this information:

   Queue
   Optionally, specify a print queue.

   Type
   Select **`Label Printer`**.

   Site
   Specify a site that is set up in Enterprise Printing Platform. When a ULD format file is created for a label, the printer is set as **`site#printer`**, instead of **`printer`**. You can specify **`defaultSite`**, which is a standard site in Enterprise Printing Platform.

   Printer Model
   Select **`Zebra`**.

6. Click **Save**.

Setting up a warehouse for label printing

1. Select **TWL Configuration > Warehouse**.
2. Create a new warehouse record or edit an existing warehouse record.
3. On the **General** tab, select **`Enterprise Printing Platform Integration`** in the **Labels** field.
4. Click **Save**.

Setting up labels

1. Select **TWL Administration > Label**.
2. Specify a TWL warehouse and a printer in the **Search** pane.
3. Click **Enterprise Printing Platform Setup**.
4. Specify this information:

   Location
   Specify the bin directory where Enterprise Printing Platform is installed. The directory path must contain a forward slash (/) at the end for your label to successfully print.

   Executable Program
   Specify **`fileDrop`**.

   Delimiter

   Specify the delimiter that Enterprise Printing Platform uses to parse data for labels.

   The delimiter must match the delimiter that is specified in **System Configurations-Formatter Settings** in Enterprise Printing Platform.

   We recommend tilde (~), which is the default delimiter. If you use the tilde in your data, select another delimiter, such as ampersand (@), asterisk (*), or pound (#).

   Caution: Do not use a caret (^) or pipe (|) as the delimiter.

   Logging File
   Leave this field blank.

   Debug Mode
   Clear this option.

5. Click **Submit**.

Loading the default label templates and dictionary files

If you customize label templates, you must load the customized files. When loaded, the customized files overwrite any files with the same names. You must reload the files each time you modify the files. The label print routine sends data from these files to Enterprise Printing Platform.

Note: Ensure that your permissions in **SA Operator Setup** are set to **`Full Security`** for the function **SA Default Label Retrieval**. You must use the report to retrieve label templates.

1. Select **System Administrator > Reports > SA Reports > SA Default Label Retrieval**.
2. Select **New > One Time**.
3. Specify this information, and then click **Next**::

   Email Address
   Specify your email address.

SXe EPP Default Labels
Select **No**.

TWL EPP Default Labels
Select **Yes**.

4 Click **Save**.

The default label templates are listed in the **TWL Administration-Label-TWL Label Setup Configurations** grid.

5 After you receive the email with the zip file, edit the `twl.ldd` file to delete fields that you do not use.

This step is optional, but reducing the file size improves the performance of the label design process in Enterprise Printing Platform.

6 Load the `*.ldd` files into the `dataDictionaries` folder and the `*.lbl` files into the `label Templates` folder in the Enterprise Printing Platform installation area.

Also load the data dictionary and the labels into Enterprise Printing Platform.

See the Enterprise Printing Platform documentation.

7 Transfer the default label templates and dictionary files to a shared file system that is accessed by the Report Scheduler when processing reports that print labels.

a Select **System Administrator > Administration > File Transfer**.
b Click the **browse** button in the **Data File** field. Navigate to the location where you copied the files and then select one or more of the files. If you select more than one file, the files are listed in the page below the **Data File** field.
c Select **Label Files** in the **Target Type** field.
d Click **Transfer File**.

Verify the data flow

After you print labels, you can verify that BODs are generated and that ION receives data.

See the *Infor CloudSuite Distribution Configuration Guide*.

Enterprise Printing Platform for on-premises Distribution SX.e

If you use TWL in on-premises Distribution SX.e, you can use Enterprise Printing Platform (EPP) to print labels.

Note: Enterprise Printing Platform does not interface to the ONeil hip printers for printing labels during picking or receiving tasks.

Follow this checklist to perform the tasks to implement label printing:

	Task	Reference
❑	Install Enterprise Printing Platform. You can download Enterprise Printing Platform from the Infor Product Download Center. An Infor license for Enterprise Printing Platform is required to perform the download. To install and use Enterprise Printing Platform, a license key is required. You can obtain a license key by requesting a software key on Infor Concierge. Each time you upgrade to a new version, you must request a new software key.	Enterprise Printing Platform documentation
❑	Verify that the label printers are set up to print labels using Enterprise Printing Platform.	Setting up TWL printers on page 40
❑	Connect TWL to Enterprise Printing Platform.	Connecting TWL to Enterprise Printing Platform on page 225
❑	Load Enterprise Printing Platform label templates and dictionary files.	Loading the default label templates and dictionary files on page 226
❑	Define customer labels.	Defining custom labels on page 227
❑	Review label and printer setup information.	Reviewing label and printer setup information on page 228

Connecting TWL to Enterprise Printing Platform

1. Select **TWL Configuration > Warehouse**.
2. Click **New**.
3. In the **General** section, specify your information.
4. In the **Warehouse Parameters** section, select **`Enterprise Printing Platform Integration`** in the **Labels** field.
5. Click **Save**.
6. Select **TWL Administration > Label**.
7. In the **Search** pane, specify a TWL warehouse and the appropriate label printer, and click **Search**.
   See TWL printers on page 40.
8. In the toolbar, click **Enterprise Printing Platform Setup**.
9. Specify this information:

   Location
   Specify the directory that contains the executable file. This directory is the location of the Enterprise Printing Platform installation that is located on the same machine as the RF code. The directory path must contain a forward slash (/) at the end for your label to successfully print.

Executable Program
Specify **`fileDrop`**.

Delimiter

Specify the delimiter that Enterprise Printing Platform uses to parse data for labels.

The delimiter must match the delimiter that is specified in **System Configurations-Formatter Settings** in Enterprise Printing Platform.

We recommend tilde (~), which is the default delimiter. If you use the tilde in your data, select another delimiter, such as ampersand (@), asterisk (*), or pound (#).

Caution: Do not use a caret (^) or pipe (|) as the delimiter.

Logging File
Leave this field blank.

Debug Mode
Clear this option.

10 Click **Submit**.

Loading the default label templates and dictionary files

If you customize label templates, you must load the customized files. When loaded, the customized files overwrite any files with the same names. You must reload the files each time you modify the files. The label print routine sends data from these files to Enterprise Printing Platform.

Note: Ensure that your permissions in **SA Operator Setup** are set to **`Full Security`** for the function **SA Default Label Retrieval**. You must use the report to retrieve label templates.

1 Select **System Administrator > Reports > SA Reports > SA Default Label Retrieval**.

You can also access the report from the **External Label Software Setup** page in **TWL Administration-Label Setup**.

2 Select **New > One Time**.

3 Specify report, printing, and scheduling information, and then click **Next**.

4 Specify this information, and then click **Next**:

Email Address
Specify your email address.

SX.e ELS Enterprise Default Labels
Select **`No`**.

TWL ELS Enterprise Default Labels
Select **`Yes`**.

5 Click **Save**.

The default label templates are listed in the **TWL Administration-Label-TWL Label Setup Configurations** grid.

6 After you receive the email with the zip file, edit the `twl.ldd` file to delete fields that you do not use.

This step is optional, but reducing the file size improves the performance of the label design process in Enterprise Printing Platform.

7 Load the `*.ldd` files into the `dataDictionaries` folder and the `*.lbl` files into the `labelTemplates` folder in the Enterprise Printing Platform installation area.

Also load the data dictionary and the labels into Enterprise Printing Platform.

See the Enterprise Printing Platform documentation.

Defining custom labels

1 Select **TWL Administration > Label**.

2 In the **Search** pane, specify a TWL warehouse and the appropriate label printer. Select **`Default`** in the **Record Level** field and then click **Search**.

The default label templates are listed in the grid.

3 Select the default label, and then click **`Create Override Record`**.

4 Perform the search again with **`Company-Warehouse-Printer Specific`** selected in the **Record Level** field.

5 Select the label, and then click **Edit**.

6 Specify the name of your customized label file, and then click **Submit**.

Customizing SCM labels

You can customize Shipping Container Marking (SCM) labels that are printed with the TWL RF using Enterprise Printing Platform. The correct setup and use of Enterprise Printing Platform label printing must be followed.

SCM labels can support this type of information:

- Multiple products packed into a single container

  Enable this customization by creating your custom labels with the Enterprise Printing Platform modeling tool. Then, specify a prefix for the label file for a specific customer in **WL SCM Label Prefix** field in **Customer Setup-General**. Optionally, specify text to indicate multiple products in **WL SCM Label Mixed Text** field. The default value is **`MIXED`**, but you can modify this text to meet your requirements.

  When enabled, four new data fields are populated during the SCM label printing:

  - **Product** (xxordhdr.scm_prod)
  - **Product Desc** (xxordhdr.scm_desc)

  - **Vendor UPC** (xxordhdr.scm_upc)
  - **Product Total Qty** (xxordhdr.scm_qty)

  The fields populate, based on how many products are in the container. The 'xx' indicates the field is not found in the `ordhdr` table, but is related to the `ordhdr` data. When enabled, if you specify a customer in the **SA Label Configuration Review Report** options, the report shows the specific customized label names.

- Transfer tied to a customer order

  Your label can show when the warehouse transfer is tied to a sales order number and if the sales order is a Rush order. The data field is named xxordhdr.wttierush_or_custpo. This field prints either the transfer-sales order tie number and the RUSH indicator, or the customer purchase order, if there is no tie. The format for this data field is: 999999999-99 RUSH. The 9s represent the tied sales order number and suffix. Typically, this information prints in the space where the purchase order number currently prints.

Reviewing label and printer setup information

You can run the **SA Label Configuration Review Report** to review information about label and printer setup. The report includes this information:

- Settings from **External Label Software Setup** in **TWL Administration-Label-Setup**.
- Default and printer-specific label files from **TWL Label Setup Configurations** in **TWL Administration-Label Setup**.

For each label file that is listed, the report indicates if the file is found in the label directory. The label directory is established when the integration to Enterprise Printing Platform is performed.

1. Select **System Administrator > Reports > SA Reports > Label Configuration Review**.
2. Select **New > One Time**.
3. Specify report, printing, and schedule information, and then click **Next**.
4. Optionally, specify TWL warehouse and printer ranges.
5. Click **Next**.
6. Specify this information:

   Print TWL?
   Select **`Yes`**.

   Print IBC?
   Select **`No`**.

   Show Specific Labels for Customer #
   Specify a customer to include the shipping label setup for the customer on the report.

   Print Cartonization?
   Select **`No`**.

7. Click **Next**, and then click **Save**.

Printing an Enterprise Printing Platform label from TWL

Operators can print labels from the RF, or you can print labels from TWL.

1. Select **TWL Configuration > Label Printing**.
2. In the **Search**, specify TWL warehouse and a printer that is set up to print Enterprise Printing Platform labels.
3. Specify **`Location`** in the **Label Destination** field, and then click **Search**.

   Optionally, you can specify a zone, aisle, and bin location to limit the records that display in the grid. The fields displayed in the grid may depend on the type of label you are printing.
4. Specify the label size, type of arrow, and format. The direction of the arrow depends on which shelf you are affixing the label.
5. Select a location in the grid, and then click **Print Labels**.

   Click **Yes** when this message is displayed: `Do you wish to print a label for the selected bin locations?`. This confirmation message is then displayed: `Location Label(s) were sent to the printer.`
6. Repeat steps as required to print additional labels.

   Use similar steps to print carton, pallet, or tote labels, and inventory or item labels.

Appendix F: Integrating TWL with Infor Document Management

In CloudSuite Distribution, you can print TWL barcode labels, based on templates that are stored in Infor Document Management (IDM). When you print labels, the values that are required for the labels are sent to IDM in XML format through the Document Output API call. The labels are then output to printers that are identified as IDM label printers.

Each label type has a standard template. You can use the IDM Word Add-in tool to create custom label templates. You can add additional fields, including calculated fields, to each label to meet your business requirements. You can also create WL SCM labels to meet the business requirements of specific customers.

You can print labels through IDM exclusively, or use IDM and Enterprise Printing Platform. IDM label printing supports the same labels and additional fields as Enterprise Printing Platform except for the start and end calculated fields.

Configuration checklist

Follow this checklist to perform the tasks that are required to implement label printing using IDM:

✓	Task	Reference
❑	Perform these IDM configuration tasks: • Assign user roles for Document Management in Infor Ming.le • Download the IDM sample content from the Infor Support Portal • Import the content into Document Management • Configure the authorization service • Enable IDM Enterprise Print • Optionally, activate error logging	*Infor CloudSuite Distribution Configuration Guide*

✓	Task	Reference
❑	Customize labels in Document Management. If you will use both default and custom labels, then copy the default templates that you will use to the same document type as the custom labels. **`SX_Custom_Label_Templates`** is the default document type for custom labels, but you can create another document type under which to save the templates.	Standard and custom labels on page 231 and *Infor Document Management Output Management User Guide*
❑	Select IDM as your label generator at the warehouse and printer levels.	Selecting IDM as the label generator on page 232
❑	Set up printers to generate custom label output.	Setting up a printer to generate custom label output on page 233
❑	Optionally, identify SCM label output for customers.	Identifying SCM label output for a customer on page 233

Standard and custom labels

For a list of TWL label types that you can print using IDM , see Label types on page 207.

Standard labels include this type of data:

- Keydata

  Keydata is used to retrieve data to be displayed on the label. Keydata can also be displayed on a label. Keydata is set by the function that calls the label program. For example, a carton label print request sets the keydata.carton_id so that the label program knows which carton to retrieve the carton tables for.
- Standard table field values

  The field values that are available are from the tables that are listed in the Label Types table.
- Calculated fields

  Calculated fields are created from other data fields. The tables for calculated fields start with `xx`. They are calculated if the table they are from is retrieved from is available for the label type. For example, `xxbinmst.bin_num_formatted` is available only if the `binmst` table is retrieved for the label type.

  See Calculated fields on page 217.

You can use keydata, standard table fields and calculated fields to create custom labels. To obtain the list of keydata and fields that you can use on custom labels, run the **SA Default Label Retrieval Report**.

Obtaining the data dictionary file for TWL

1. Select **System Administrator > Reports > SA Reports > SA Default Label Retrieval**.
2. Select **New > One Time**.
3. Specify report, printing, and scheduling information, and then click **Next**.
4. Specify this information, and then click **Next**:

   Email Address
   Specify your email address.

   SX.e ELS Enterprise Default Labels
   Select **`No`**.

   TWL ELS Enterprise Default Labels
   Select **`Yes`**.

5. Click **Save**.
6. After you receive the email with the zip file, extract the `twl.ldd` file to your local directory.

   You can ignore the `.lbl` files. You will not use them to print labels using IDM.

Selecting IDM as the label generator

Use these instructions to select IDM as the label generator on existing warehouse and printer records.

1. Select **TWL Configuration > Warehouse**.
2. Specify a TWL warehouse, and then click **Search.**
3. Select the record, and then click **Edit**.
4. In Warehouse Parameters section, select **`EPP/IDM Integration`** in the **Labels** field.
5. Click **Save**.
6. Select **TWL Administration > Printer**.
7. Specify a TWL warehouse, and then click **Search.**
8. Select the record, and then click **Edit**.
9. Select **`IDM Label`** in the **Label Printer Model** field.

   `SX_Label_Templates` is displayed in the **IDM Document Type** field. Leave this value if you did not create custom label templates and save them to another document type.
10. If you created custom label templates, then specify **`SX_Custom_Label_Templates`** or another document type under which you saved the custom label templates.

    You must specify the value from the **Name** field on the document type record in IDM. Do not specify the value from the **Display Name** field.
11. Click **Save**.

Setting up a printer to generate custom label output

To generate custom label output on an IDM printer, you must create a custom label type record for the printer. If you use a standard label, no action is required. The standard label is printed, based on the **TWL Administration-Printer** record.

1 Select **TWL Administration > Label**.

2 Specify this information, and then click **Search**:

Warehouse
Specify the warehouse to which the printer is assigned.

Printer
Specify the name of the printer.

Usage Type
Select **`EPP/IDM Integration`**.

Record Level
Select **`Default`**.

3 Select the labels types for which you created a custom label, and then click **Create Override Record**.

The override record includes the default template and fields that are required for IDM labels.

4 Edit each override record:

a Select **`Company-Warehouse-Printer Specific`** in the **Record Level** field, and then click **Search**.

b Select the label type, and then click **Edit**.

c Specify this information:

IDM Label Template

Specify the name of the custom label template.

IDM Label Field List

Specify each field that is included on the custom template. Separate the values by commas. You can include spaces after the commas.

d Click **Submit**.

Identifying SCM label output for a customer

If a customer requires a specific format or specific information on WL SCM labels, create a custom label template for the customer and then specify it on the customer record. When labels are generated, the template from the customer record is used instead of the template for the printer.

Note: Use of the **WL SCM Label Mixed Text** field does not depend on the **WL SCM Label Prefix** field.

1. Select **Customer > Setup > Customer**.
2. Select the customer record, and then click **Edit**.
3. On the **General** tab, specify this information:

   IDM Document Type

   Specify **`SX_Custom_Label_Templates`** or another document type under which you saved the custom templates.

   You must specify the value from the **Name** field on the document type record in Document Management. Do not specify the value from the **Display Name** field.

   WL SCM IDM Label Template

   Specify the name of the custom label template.

   WL SCM IDM Label Fields

   Specify each field that is included on the custom label template. Separate the values by commas. You can include spaces after the commas.

Appendix G: Legacy labels

This section provides information about using legacy labels with TWL. You can use legacy labels with on-premises Distribution SX.e only.

Setting the warehouse parameter

1. Select **TWL Configuration > Warehouse**.
2. Specify a TWL warehouse and click **Search**.
3. In the grid, select the record and drill down to access the record.
4. Click **Edit**.
5. In the **Warehouse Parameters** section, in **Labels**, select **`Standard Zebra Printing`**.
6. Click **Save**.

Creating a company-warehouse legacy record

Before you can customize labels, you must create labels specific to a company and warehouse from the default label formats. To save time, you can use the **`Copy All Records`** option in **TWL Administration-Label**. To create individual company-warehouse records, complete these steps:

1. Select **TWL Administration > Label**.
2. In the **Search** pane, specify a TWL warehouse.
3. In **Label Usage Type**, select **`Standard Zebra Printing`**.
4. In **Record Level**, select **`Default`**.
5. Click **Search**.
6. In the grid, select a label type, and then select **`Create Override Record`**.
7. Repeat steps as necessary to create additional company-warehouse records.

Modifying a company-warehouse legacy label configuration

Use these instructions to create a unique label configuration for a specific company and warehouse.

1. Select **TWL Administration > Label**.
2. In **Label Usage Type**, select **`Standard Zebra Printing`**.
3. In **Record Level**, select **`Company-Warehouse Specific`**.
4. In the grid, select the record and click **Edit**.
5. In **Label File Value**, make the necessary changes.
6. Click **Submit**.
7. Repeat steps as necessary to modify additional records.

Removing a company-warehouse legacy label configuration

1. Select **TWL Administration > Label**.
2. In **Label Usage Type**, select **`Standard Zebra Printing`**.
3. In **Record Level**, select **`Company-Warehouse Specific`**.
4. In the grid, select the record and click **Delete**. The record is removed.
5. Repeat steps as necessary to remove additional records.

Printing a location legacy label from TWL

1. Select **TWL Configuration > Label Printing**.
2. In the **Search** pane, specify a TWL warehouse and a printer.
3. In **Label Destination**, specify **`Location`** and click **Search**.

   When you select Location, additional fields are displayed. Optionally, you can specify the **Zone**, **Aisle**, and **Bin Location** to limit the records that display in the grid. The fields displayed in the grid depend on the type of label you are printing.
4. Specify the label size, type of arrow, and format. The direction of the arrow depends on which shelf you are affixing the label.
5. In the grid, select a location and click **Print Labels**.
6. A message is displayed: `Do you wish to print a label for the selected bin locations?` Click **Yes**.

   A confirmation message is displayed: `Location Label(s) were sent to the printer.`

7 Repeat steps as necessary to print additional labels.

Use similar steps to print carton, pallet, or tote labels, and inventory or item labels.

Printing a legacy label to file

1 Select **TWL Administration > Printer**.
2 Use the **Search** pane to specify a TWL warehouse.
3 Click **New**.
4 In **Printer**, specify **`Legacy_NoPrint`**.
5 Click **Save**.
6 In the **General** section, in **Queue**, specify **`pg > /dv/tmp/LegacyLabel.out`**.
7 In **Model**, select **`Zebra`**.
8 In **Type**, select **`Label Printer`**.
9 Click **Save**.

This printer is now available from the grid. Select this printer to print a label to a file.

Appendix H: Integrating TWL orders with Proof of Delivery

You can integrate TWL with Infor Proof of Delivery (POD). You can use the integration to manage order deliveries, capture customer signatures, and know the time and location of any delivery from a TWL warehouse. Infor Proof of Delivery is beneficial if your warehouse uses its own fleet to deliver orders.

Activation of TWL integration with POD

- In the Proof of Delivery Manager application, ensure you have created a warehouse that matches the TWL warehouse you are delivering from. Ensure you activate users and associate warehouses to those users.

  See the *Infor Distribution Proof of Delivery Managers Application Administration Guide*.

- In TWL, orders to be delivered with POD must be assigned to a TWL-managed carrier. Set up the TWL-managed carrier in **TWL Outbound-Shipping-Carrier Master**. The option, **`Load Orders`**, must be selected. The TWL-managed carrier record must match the carrier value specified in **SA Table Code Value Setup-Ship Via**. Set up the TWL-managed carrier in **SA Table Code Value Setup-Ship Via**. By specifying the option, Load Orders, any orders assigned to this carrier are automatically assigned a Loaded order status.

  SeeTWL carrier management on page 31 and Setting the TWL ship-via carriers on page 58

- The Shipment BOD is available as a standard ION BOD. You can use **SA Administrator ION Noun Setup** to ensure this business object document (BOD) is activated to send data from Distribution SX.e to ION. You must configure ION connection points and document flows for this BOD in ION Desk for this integration.

  See the *Infor Operating Service Administration Guide* and the *ION Desk User Guide-Cloud Edition*.

Workflow of TWL integration with POD

To use POD to deliver TWL orders, follow this workflow:

1. Enter an order in **Sales Order Entry** and specify a TWL-managed carrier in **Ship Via**. Any order that is made available to POD must be assigned to a TWL-managed carrier. Any orders assigned to this TWL-manage carrier are automatically assigned a Loaded order status.
2. When the order is released to TWL, the order is sent to **TWL Order Drop Manager.** In **TWL Order Drop Manager**, the order, is dropped so it can be picked and packed. Any changes to the order must be completed in TWL before creating the **WL Transaction Inquiry** record.
3. The order is picked and packed by warehouse personnel. When the order is ready to be shipped, the TWL RF operator performs a shipment verification.
4. Distribution SX.e is updated and a Sync.Shipment BOD is published to ION and is available for POD to consume. The Sync.Shipment BOD contains all packaging and manifest data from TWL and the standard Shipment BOD fields.
5. TWL orders in Loaded order status are not automatically updated to Ship status. Instead they are isolated in the **TWL Order Drop Manager** and can be viewed in the **TWL Order Exceptions** page. In this page, you can find the order and verify that the **Order Status** is **`Loaded`**. This status indicates that the order was sent to the POD application to continue with the order delivery.
6. The carrier driver uses the POD mobile Driver application to record the delivery.
   - When a TWL Warehouse order is shipped with POD, an inbound Process.Shipment BOD, with a status of **`Hold`** or **`Shipped`**, is sent and consumed by Distribution SX.e.
     - If an inbound Process.Shipment BOD is sent with a status of **`Shipped`**, the order is:
       - Updated automatically in TWL.
       - Removed from the **TWL Order Drop Manager-TWL Order Exceptions** page and updated to Shipped in TWL. This process creates the necessary **WL Transaction Inquiry** record for the **WL Entry Batch Shipping Report** shipping update to Distribution SX.e.
     - If an inbound Process.Shipment BOD is sent with a status of **`Hold`**, the order:
       - Remains in the **TWL Order Drop Manager-TWL Order Exceptions** page for manual handling and adjustment.
       - Must be manually released from Hold status in Distribution SX.e to allow invoice processing. The order remains on Hold until released; the **Approve Type** must be changed to **`Y`** in Sales **Credit Release Inquiry**.

   Note: For orders not fully shipped and updated with POD, use **TWL Order Drop Manager-TWL Order Exceptions** page to manually process the exception.

Appendix I: Reference information

This information is provided as additional reference information.

Module-function reference

These tables list the TWL Web module function name for both the WebUI menu location and the corresponding previous graphical interface (GUI) location.

In the WebUI menu, the TWL Web module functions are organized into these categories:

- **TWL Administration**
- **TWL Configuration**
- **TWL Execution**
- **TWL Inbound**
- **TWL Outbound**

TWL Administration

This table shows the previous GUI menu path and the current WebUI menu path for this category.

GUI menu path	WebUI menu path	Acronym
Main Menu > Master Files > Company	TWL Administration > Company	twlac
Main Menu > Master Files > Employee	TWL Administration > RF Employee	twlae
Main Menu > Master Files > Shift	TWL Administration > Shift	twlas
Main Menu > Master Files > Station	TWL Administration > Station	twlat
Main Menu > Master Files >Department	TWL Administration > Department	twlad
Main menu > Options > Display Database Connections	TWL Administration > Database Connection	twladc
Main Menu > Reports > Productivity	TWL Administration > Reports > Productivity Reports	twlrp

GUI menu path	WebUI menu path	Acronym
Main Menu > System Setup > Interfaces > Interface Layout	TWL Administration > Interface > Interface Inquiry	twlail
Main Menu > System Setup > Interfaces > Resend	TWL Administration > Interface > Interface Resend	twlair
Main Menu > System Setup > Label Setup	TWL Administration > Label	twlal
Main Menu > System Setup > Printers	TWL Administration > Printer	twlap
Main Menu > System Setup > System Parameters	TWL Administration > System Parameter	twlasp
Main Menu > System Setup > User Specific Config	TWL Administration > User Specific Configuration	twlau

TWL Configuration

This table shows the previous GUI menu path and the current WebUI menu path for this category.

GUI menu path	WebUI menu path	Acronym
Main Menu > Master Files > Inventory Detail [see 'Modules > Inventory Control > Inventory Detail']	TWL Configuration > Inventory Detail	twlcin
Main Menu > Master Files > Item	TWL Configuration > Item	twlci
Main Menu > Master Files > Location	TWL Configuration > Location	twlcl
Main Menu > Master Files > Location-Create	TWL Configuration >Multiple Location Create	twlclm
Main Menu > Master Files > Unit of Measure	TWL Configuration > Unit of Measure	twlcu
Main Menu > Master Files > Warehouse Zone	TWL Configuration > Warehouse Zone	twlcz
Main Menu > Master Files > Warehouse >System Setup > Warehouse Parameters	TWL Configuration > Warehouse	twlcw
Main Menu > Modules > Inventory Control > ABC Classification	TWL Configuration > ABC Classification	twlabc
Main Menu > Modules > Inventory Control > Adjustment Code	TWL Configuration > Adjustment Code	twlca

GUI menu path	WebUI menu path	Acronym
Main Menu > Modules > Inventory Control > Return Reason Codes	TWL Configuration > Return Reason Code	twlcr
Main Menu > Modules > Labels [location labels] Main Menu > Modules > Labels [carton label printing]	TWL Configuration > Label Printing	twlclp
Main Menu > Reports > Master	TWL Configuration > Reports > Master Reports	twlrmst
Main Menu > System Setup > Alternate Location	TWL Configuration > Alternate Location	twlcla
Main Menu > System Setup > End of Day (EOD)	TWL Configuration > End of Day > End of Day Configuration	twlceod
Main Menu > System Setup > File Retention (EOD)	TWL Configuration > End of Day > File Retention	twlcefr

TWL Execution

This table shows the previous GUI menu path and the current WebUI menu path for this category.

GUI menu path	WebUI menu path	Acronym
Main Menu > Modules > Inventory Control > Cycle Count Master > Create	TWL Execution > Cycle Count > Create	twlecc
Main Menu > Modules > Inventory Control > Cycle Count Master > Inquiry	TWL Execution > Cycle Count > Inquiry	twleci
Main Menu > Modules > Inventory Control > Cycle Count Master > Options > Inventory Counts Setup	TWL Execution > Cycle Count > Setup	twlecs
Main Menu > Modules > Inventory Control > Inventory Discrepancies	TWL Execution > Inventory Discrepancy	twlei
Main Menu > Modules > Inventory Control > Physical Inventory	TWL Execution > Physical Inventory	twlep
Main Menu > Modules > Inventory Control > Replenishments > Consolidate Non-Primaries	TWL Execution > Replenishment > Consolidate Non-Primary	twlerc
Main Menu > Modules > Inventory Control > Replenishments > Top Off Primaries	TWL Execution > Replenishments > Top Off Primary	twlert
Main Menu > Modules > Inventory Control > Replenishments > View Pending	TWL Execution > Replenishments > View Pending	twlerp

GUI menu path	WebUI menu path	Acronym
Main Menu > Reports > Inventory	TWL Execution > Reports > Inventory Reports	twlrinv
Main Menu > Reports > Management	TWL Execution > Reports > Management Reports	twlrmg

TWL Inbound

This table shows the previous GUI menu path and the current WebUI menu path for this category. This category includes inbound transactions such as receipts, return orders, and inbound warehouse transfers.

GUI menu path	WebUI menu path	Acronym
Main Menu > Master Files > Vendor Information	TWL Inbound > Vendor Information	twliv
Main Menu > Modules > Receiving > Packing List Entry	TWL Inbound > Packing List Entry	twlip
Main Menu > Modules > Receiving > Receipt Master	TWL Inbound > Receipt Inquiry	twlir
Main Menu > Reports > Inbound	TWL Inbound > Reports > Inbound Reports	twlrin

TWL Outbound

This table shows the previous GUI menu path and the current WebUI menu path for this category. This category includes transactions such as purchase orders, return purchase orders, and outbound warehouse transfers.

GUI menu path	WebUI menu path	Acronym
Main Menu > Modules > Orders > Auto Drop Log	TWL Outbound > Auto Drop > Auto Drop Log	twloal
Main Menu > Modules > Orders > Auto Drop Rules	TWL Outbound > Auto Drop > Auto Drop Rule	twloar
Main Menu > Modules > Orders > Carton Sizes	TWL Outbound > Shipping > Carton Size	twlocs
Main Menu > Modules > Orders > Enable Auto Drop	TWL Outbound > Auto Drop > Auto Drop Enable	twloae

GUI menu path	WebUI menu path	Acronym
Main Menu > Modules > Orders > Order Carton Info	TWL Outbound > Shipping > Order Carton Info	twloc
Main Menu > Modules > Orders > Order Inquiry	TWL Outbound > Order Management > Order Inquiry	twlooi
Main Menu > Modules > Orders > Order Manager	TWL Outbound > Order Management	twlom
Main Menu > Modules > Orders > Order Manager	TWL Outbound > Order Management > Order Drop Manager	twlom
Main Menu > Modules > Orders > Order Manager > Edit > Order Drop Criteria > Warehouse Pick Creation Criteria Setup Screen	TWL Outbound > Picking > Pick Sequence	twlops
Main Menu > Modules > Orders > Order Manager > Undropped > Drop > Order Drop Sequence Criteria > Employee	TWL Outbound > Order Management > Employee Wave Assignments	twloe
Main Menu > Modules > Orders > Order Manager > View > Order Count Status > Undropped Open Orders Status	TWL Outbound > Order Management > Dropped Order Status	twloms
Main Menu > Modules > Picking > Product Categories	TWL Outbound > Picking > Product Category	twlop
Main Menu > Modules > Shipping > Carrier Master	TWL Outbound > Shipping > Carrier Master	twlocm
Main Menu > Modules > Shipping > Dock Master	TWL Outbound > Shipping > Dock Master	twlod
Main Menu > Modules > Shipping > Shipping Manifest	TWL Outbound > Shipping > Shipping Manifest	twlosm
Main Menu > Reports > Outbound Reports	TWL Outbound > Reports > Outbound Reports	twlrout
Information Explorer	TWL Outbound > Order Management > Order Inquiry TWL Outbound > Order Management > Order Inquiry [drill down an order, Lines tab, Inquiries button] TWL Outbound > Order Management > Wave Inquiry	twlooi twlow

Communication file structure descriptions

TWL and the system modules use a designated file structure to communicate data. This section describes the structure of these files:

- WLET Driver file
- WLEM Master file
- WLEH Order Header file
- WLEL Line Item file

WLET Driver file

This table shows the fields and descriptions for the WLET Driver file:

Field	Description
Stat	These status types are listed in the file as a letter: • A: Active; records are ready for processing • I: Inactive; records have been processed and are ready for deletion • O: Open; records are in the process of building the transaction files in the system • E: Error; records were found during processing • W: Work in Process; records are in the process of being transmitted • V: Vendor Return; records are held for manual release
Created	The date and time the file was created.
Type	These types are listed in the file as a three-character code: • MST: Master Record • PCK: Picking Record • PRT: Packing List Record • SHP: Shipping Record • RCV: Receiving Record • INV: Inventory Adjustment • PRE: Pre-Receiving Record • BCD: Barcode Record
Whse	The TWL warehouse name.
Last Updated	Your initials and last date and time the record was updated.

Field	Description
Set #	A unique sequencing number that changes incrementally. The number is created by combining these items: • Year • Month • Day • Time, seconds from midnight • Randomly generated number, such as 06 For example, for a record created on 05/02/18 at 10:00 AM, the set number 200605023600018 is assigned.

WLEM Master file

This table shows the fields and descriptions for the WLEM Master file:

Field	Description
Actual Qty	The actual quantity that is entered into the system, expressed in stocking units.
Address	The address from the master file.
Adjustment Code	The adjustment code is sent by TWL based on the transaction.
Adjustment Reason	The transaction type from TWL.
Analysis Code	The ABC Classification code from **Product Warehouse Product Setup-WL Setup** that is released to TWL.
Bin Loc 1	The bin locations on the **Product Warehouse Product Setup** record.
Bin Loc 2	The bin locations on the **Product Warehouse Product Setup** record.
Case Qty	The field from the **Product Warehouse Product Setup-WL Setup** that is released to TWL.
Category	The product category from the **Product Setup** record.
Code/Carrier	The **SA Table Code Value Setup** record that is being transferred to TWL.
Counter Bin	The counter location from **Product Warehouse Product Setup-WL Setup** that is released to TWL.
Country	The country in which the TWL warehouse resides.
Cross Reference	The vendor's part number.
Cube	The product's cubic dimensions from **Product Setup**.

Field	Description
DUNS #	The number from the **Vendor Setup** that is released to TWL.
EDI Cd	The EDI code from **Vendor Setup** that is released to TWL.
Expected Qty	The quantity that the system expected. The quantity is expressed in stocking units.
Extended Type	The product's serial or lot designation from the **Product Warehouse Product Setup** record.
Fax Phone	The fax number from **Vendor Setup** that is released to TWL.
Function	The system function that contains the static data. These functions are listed in the file as a character code: • icsp: **Product Setup** • icsw: **Product Warehouse Product Setup** • icsd: **Product Warehouse Description Setup** • sasc: **SA Company Setup** • sastt: **SA Table Code Value Setup** • wtee: **Transfer Exception Receipt Entry** • wl: **Warehouse Logistics**
Height	The product's height from the **Product Setup** record.
Inner Pack	The field from the **Product Warehouse Product Setup-WL Setup** that is released to TWL.
Kit Build Dept	The department the prebuilt kit is assembled in, from the **Product Warehouse Product Setup-WL Setup** that is released to TWL.
Kit Type	If the product is a kit, the type of kit from **Product Setup** is displayed.
Length	The product's length, from the **Product Setup** record.
MSDS Product	Indicates whether this product requires an MSDS sheet.
MSDS Sheet #	The information sheet that is associated with the MSDS product.
Name	Depending on the master file, the name of the company or warehouse, for example.
Our Product	The system product number that is cross-referenced to a vendor's product number.
Pallet Qty	The field from the **Product Warehouse Product Setup-WL Setup** that is released to TWL.
Phone	The phone number from **Vendor Setup** that is released to TWL.
Product	The system's product name.
Salesrep	The sales representative from **Vendor Setup** that is released to TWL.
Ship From	The ship-from location from **Vendor Setup** that is released to TWL.

Field	Description
Spec/Non-stock	For stock adjustments, the special or nonstock designation.
Stat	These status types are listed in the file as a letter: • A: Active; records are ready for processing • I: Inactive; records have been processed and are ready for deletion • O: Open; records are in the process of building the transaction files in the system • E: Error; records were found during processing • W: Work in Process; records are in the process of being transmitted • V: Vendor Return; records are held for manual release
Status	The **Product Setup** or **Product Warehouse Product Setup** product status.
Stk Qty	The number of stocking units in a cross-reference unit for a product.
Table Type	The **SA Table Code Value Setup** type that is transferred to TWL.
Type	The cross-reference type.
Unit/Unit Stock	The stocking unit from the product's **Product Setup** record.
Update Type	These transactions are listed in the file as: • a: add • c: change • d: delete
Vendor #	The **Vendor Setup** vendor number that is released to TWL.
Weight	The product's weight, from the **Product Setup** record.
Whse Zone	The field from the **Product Warehouse Product Setup-WL Setup** that is released to TWL.
Width	The product's width, from the **Product Setup** record.

WLEH Order Header file

This table shows the fields and descriptions for values in the WLEH order header file:

Field	Description
Cust/Vend/Whse	The customer, vendor, or warehouse name or number.
Order #	The order number and suffix.

Field	Description
OrdTy	Order types are listed in the file as: • c: Customer order • p: Purchase order • t: Transfer • w: Work order
Priority	A value from 1 to 10. 1 is low priority, 5 is the default, and 10 is the highest priority.
Stat	Status types are listed in the file as: • A: Active; records are ready for processing • I: Inactive; records have been processed and are ready for deletion • O: Open; records are in the process of building the transaction files in the system • E: Error; records were found during processing • W: Work in Process; records are in the process of being transmitted • V: Vendor Return; records are held for manual release
TransID	Not currently used.
TransTy	Transactions are listed in the file as: • S: Counter Sale • E: Emergency • H: Tag & Hold • R: Regular • T: Transfer • V: Vendor Return • W: Will Call • X: Cross Docking
UpdTy	Transactions update types are listed in the file as: • a: add • c: change • d: delete

WLEL Line Item file

This table shows the fields and descriptions for values in the WLEL line item file:

Field	Description
Bin Loc	The TWL location that is related to this transaction.
Entry Dt	The date the order was created.
Ext	The serial or lot type.
N	The special or nonstock designation.

Field	Description
Ln	The line number.
Product	The product or cross-referenced product number.
Quantity	Quantity ordered.
Stat	Status types are listed in the file as: • A: Active; records are ready for processing • I: Inactive; records have been processed and are ready for deletion • O: Open; records are in the process of building the transaction files in the system • E: Error; records were found during processing • W: Work in Process; records are in the process of being transmitted • V: Vendor Return; records are held for manual release
Trans ID	Not currently used.
Unavail	The quantity unavailable.
UpdTy	Transaction update types are listed in the file as: • a: add • c: change • d: delete
WLELK	The WLELK file contains the component information for each kit-specific line item. The WLELK file interfaces with these functions: • **Sales Order Entry** • Kit Production • TWL kit activity, assemblies and disassemblies
WLELS	The WLELS file contains serial and lot information.

Process type descriptions

A process type is the transmission type that identifies the master file or transaction file information being transmitted between Distribution SX.e and TWL.

This table shows the process type, indicates whether the transmission is sent or received, and provides a description of the source of the information transmitted:

Type	Direction	Description
Master	Send	Master records sent from the system to TWL. These files are included in the master file process: • **Product Warehouse Description Setup** • **Product Setup** • **Product Warehouse Product Setup** • **Product Extended Product Cross Reference Setup** • **Product UPC Number Setup** • **SL Entry Update Products Report** • **Vendor Setup** • **Vendor Ship From Setup** • **SA Table Code Value Setup**
Order Drop Manager	Send	This type of transaction is created when you print an order for a TWL warehouse. These specific files are included in the picking process: • **Sales Entry Pick Tickets Report** • **Transfer Entry Print Warehouse Transfer Report** • **KP Entry Print Work Orders Report** • **Purchase Entry Processing Print POs Report** (Vendor Return) • **VA Entry Processing Internal Value Add Print Report** • **VA Entry Processing Pick Tickets Report**
Pre-Receive	Send	This type of transaction is created when you print a purchase order for a TWL warehouse. These specific files initiate the pre-receiving release: • **Purchase Entry Processing Print POs Report** • **Sales Entry Pick Tickets Report** [Customer Returns] • **Transfer Shipping Feedback Entry** [Receiving Warehouse]
Ship	Send	A SHP transaction is released to TWL to update the order to shipped if all these circumstances exist: • You are shipping from the order entry system or a shipping interface • You have set the TWL carrier in TWL to **`Host`**
WT Exception	Send	Sent when a discrepancy occurs between the shipping warehouse and receiving warehouse, the product is flagged for a cycle count through the **Transfer Exception Receipt Entry** function.
Barcode	Receive	This transaction is received by the system to add, change, or remove barcodes from TWL.

Type	Direction	Description
Master synchronize	Receive	Master records sent from TWL to the system. The master file process includes this updated data: • Case quantity • Counter bin • Error message • Inner pack • Kit build department • Pallet quantity • Product zone If applicable, the system updates the **Product Warehouse Product Setup** record. Synchronized information is displayed in **WL Transaction Inquiry**.
Packed Order	Receive	This transaction type is created when an entire order is packed and the carrier is managed by the host. The PAK transaction must be in **WL Transaction Inquiry** if you are using a shipping interface or if you are printing a custom system packing slip. During these processes, the PAK transaction updates the system with the actual quantity shipped for each line. A PAK transaction is not created in **WL Transaction Inquiry** for Counter Sales orders, regardless of the carrier shipping type that is assigned to the order. Counter Sales orders are typically not shipped.
Print Pack	Receive	This type is created when an order is picked in TWL, and can be removed and recreated multiple times to reprint packing lists without interfacing to a shipping interface. The option is to use the system Packing List and printer that are specified on the Carrier master record in TWL. The PRT transaction has the same functionality as the PAK transaction when the system is updated.
Received Order	Receive	This transaction is created after the receipt is complete and the receipt transaction (RT) is closed. In the system, the purchase order remains in Stage 2 (Printed) until the **WL Entry Batch Receiving Report** initiates these functions when receiving has been completed: • **Purchase Entry Receipt of Inventory** • **Transfer Entry Receipt of Inventory** • **Sales Order Entry** (Customer Returns) • **KP Work Order Center Entry-Accept** • **VA Entry Receipt of Inventory**
Shipped Order	Receive	This transaction type is created when an order is ship-verified in TWL for a TWL-managed carrier. The ship-verify function is performed on each carton associated with an order. An order is updated to shipped stage in TWL after the last carton associated with the order is ship-verified. The order remains in Stage 2 (Picked) in the order entry system until the **WL Entry Batch Shipping Report** is run. Then the order is updated to Stage 3 (Shipped) if the transaction processes without error.

Type	Direction	Description
Stock Adjustment	Receive	This type of transaction is created after a TWL stock adjustment is completed. The system is updated when the **WL Entry Batch Adjust Inventory Report** is processed. These exceptions may occur: • If the TWL and system quantities match, but the quantities are incorrect, make an adjustment on the RF and use a valid **SA Table Code Value Setup** adjustment code. • If the TWL quantity is correct, but the system quantity is incorrect, make an adjustment in **Product Qty Adjustments Entry**. • If the system quantity is correct but the TWL quantity is incorrect, make an adjustment on the RF with the TWL adjustment code. This affects the TWL quantity, but does not affect the system. Use of these scenarios should be extremely rare. Before making an adjustment to the system or TWL only, verify all transactions are processed.

Communication exception descriptions

We recommend that you monitor **WL Transaction Inquiry** transactions daily and review exceptions or errors. This table shows, for each process type, the associated error message, whether the transaction is sent or received, and the cause or corrective action:

Type	Direction	Error	Cause or corrective action
Order Drop Manager	Send	Order Released For Picking	The order was reprinted. The order is already in TWL and is being picked. You can try to inactivate the error. You must undrop the order in **Order Drop Manager** and reprint the order in the **Sales Entry Pick Tickets Report** to release to TWL. You cannot change the order in **Sales Order Entry** if the order is dropped.
Order Drop Manager	Send	Order Not Found	The order does not contain line items. Change the status to inactive.
Pre-Receive	Send	Record Not Found	The purchase order was printed, but no line items exist. You can add lines to the purchase order and reprint the purchase order, or inactivate the transaction that erred.
Received Orders	Receive	Stage Not Valid (PO)	All or part of a purchase order is received in the system through **Purchase Entry Receipt of Inventory** before the order is received in TWL. If you use the system correctly, all receipts originate from TWL, you should never receive this error.

Type	Direction	Error	Cause or corrective action
Received Orders	Receive	Stage Not Valid (WT)	A warehouse transfer is in Stage 5 (Exception) or Stage 6 (Received). Clear the exception receipts and receive the transfer in the system. The received transfers were processed in **Transfer Entry Receipt of Inventory** before being received in TWL. If you use the system correctly, all receipts originate from TWL, you should never receive this error.
Received Orders	Receive	PO In Use By XXXX	Another user was updating the record while you were processing a RCV transaction. Wait until the user is finished with the record and resubmit the transaction for processing.
Received Orders	Receive	Units Not Set Up In Unit Table - ICSEU or SASTT	The product was not set up correctly in the system before the purchase order was created. Process this transaction in **Purchase Entry Receipt of Inventory**.
Shipped Orders	Receive	Order Cannot Be Maintained After Shipping	The order was processed in **Sales Shipping Feedback Entry**, which should be the exception rather than the rule.
Stock Adjustment	Receive	BOD Kit Not Allowed	Perform a stock adjustment for each component, using a valid **SA Table Code Value Setup** adjustment code. If the product is not a build-on-demand kit, then change the **Product Setup** record to correct.
Stock Adjustment	Receive	Quantity Cannot Be > On Hand Minus Committed	If you are adjusting an unavailable quantity, then make a positive adjustment on the RF for the unavailable quantity without an unavailable code. Make an adjustment for the unavailable quantity using a valid unavailable status code.
Stock Adjustment	Receive	Negative Adjustment Cannot Exceed ICSW Qty On Hand	In the system, the on-hand quantity is less than the on-hand quantity in TWL. This is caused by unprocessed transactions. Use these steps to correct the issue: **1** Check for receipt transactions against this product in TWL and close the RT; **2** Run the **WL Entry Batch Receiving Report**, the **WL Entry Batch Shipping Report**, and the **WL Entry Batch Adjust Inventory Report** to update the system with active data; and **3** Process the appropriate adjustment in the system.
Stock Adjustment	Receive	Cannot Be > Unavailable Qty For the Reason Unavailable Type Selected	The unavailable reason codes in system and TWL are different. Check the **SA Table Code Value Setup** Return/Adjust Reasons [type M] and Reason Unavailable [type L] codes for setup problems. Process the appropriate adjustment in the system.

TWL report descriptions

TWL contains several reports to assist you in managing the warehouse. These reports are known as TWL reports. The reports, are classified by processing type or management category. These are the classifications:

- Inbound
- Outbound
- Productivity
- Inventory
- Master
- Management

Inbound reports

This table shows the report name and description:

Report	Description
Over/Short/Damaged Receipts cxxsq	Use this report to verify accuracy of receipts, compare receipts to bills of lading, and verify stock status of receipts. Specify an RT number or a date range. If an RT number is specified, then the date range is ignored. If only a date range is used, then the system reports about all RTs within that range. The report shows purchase order lines that have not been fully received [short], damaged goods received for the line, or lines that you over-received. If the purchase order or line item is fully received with no overages, damages, or short, it is not included on the report. Product, quantity expected, quantity actually received, net quantity difference, and message print. If a product has multiple status types, all are displayed. Nonstocks are marked with an asterisk (*). Run the TWL **Over/Short/Damaged Receipts** report with **Report Scheduler**. You can also run the **Over/Short/Damaged Receipts** report efficiently through **TWL Inbound-Receipt Inquiry**. In the **Search** pane, in the **Search Type**, select **`Report Inquiry`**, then specify a TWL warehouse and a printer. The grid shows search results. You can find a specific receipt transaction (RT) by specifying the number in the **Receipt Transaction Number** field and clicking **Select**. That RT is selected in the grid. Optionally, you can select one or more RTs from the grid. Then, click the **O/S/D REPORT**button to run the **Over/Short/Damaged Receipts** report on the selected RTs. A report is run for each RT selected. The printer must be previously set up in **SA Printer Setup**.
Receipts Detail By PO Number	Shows purchase order number with suffix, status, RT number, date, vendor ID or name, line number, sequence, product, date, expected quantity, received quantity, left to receive quantity, line status, totals by purchase order, grand totals.

Report	Description
Receipts Detail By RT Number	Shows RT number, purchase order number with suffix and status, expected date, vendor number, line number, sequence, product description, expected date, expected quantity, received quantity, left to receive quantity, line status, totals by RT, grand totals.
Receipts Detail By RT Report	Shows expected date, RT status, closed date, purchase order number, vendor ID and name, line and sequence number, product number, expected quantity, date received, received quantity, quantity remaining to be received, stock status by RT number, and total quantities received by purchase order number and RT number.
Receipts Summary By RT	Shows vendor name and ID, line and sequence number, product, status, location, receiving operator, number of receipts and total units received by RT and purchase order.
Unsent Receipts By RT	Shows purchase order number, vendor ID or name, line number, sequence, product, truck, location, employee number, number received, total received, total by purchase order, total by RT.
Unsent Receipts By RT: Item Detail	Shows PO number, vendor ID or name, line number, sequence, product, description, location, employee number, number received, total received.
TWL RT Packing List Summary	Provides packing list information.

Outbound reports

This table shows the report name and description:

Report	Description
Branch Order Summary	Shows branch, number of orders, number of lines, number of units for orders processed; sorted by branch. Includes all shipping methods.
Carton Consumption	The date and time stamp ranges limit the information that is displayed on this report. Includes the box size, date shipped, quantity shipped, total cartons shipped, and self-ships. The cartons are grouped by total number per day.
Carton Information	Shows all information that is related to a carton used to pack orders. Includes the carton ID, order, weight, product, dimensions, quantity packed, wave, tracking ID, and number of boxes shipped.
Order Recap By Item	Shows product, description, wave, location, shipped quantity, open quantity, total listed according to user-defined ranges.
Order Recap By Location	Shows location, product, description, wave, shipped quantity, open quantity, total. Used for paper-based pick.

Productivity reports

This table shows the report name and description:

Report	Description
Department Activity	Shows the type of transactions completed by each department. Use this report to determine if departments are completing activities outside of their functional duties, and to analyze tasks that are completed. Shows department, employee, transaction type, date/time, product, from/to bin, suggested quantity, actual quantity, unit of measure, and adjustment code for each employee in each department within the period.
Department Activity Summary	Similar to the **Department Activity** report, but lists the total quantity of each type of transaction for each employee in each department in the time range.
Employee Activity	Shows the type of activity that each employee performs and when the activity is performed. Use this report to determine if employees are completing tasks outside of their assigned duties and to measure productivity. Includes the employee name/number, transaction, location, lot, product, date/time, suggested quantity, actual quantity, and transaction count.
Employee Activity Summary	Similar to the **Employee Activity** report, but shows the total quantity of each type of transaction for each employee in the time range. Includes the employee name, transaction type, type count, employee count, and record count.
Shift Activity Summary	Use this report to determine how many transactions are performed by a shift in a warehouse by date range. Use this report to check productivity and ensure the workloads are balanced. This report accesses the transactions table data cross-referenced by company number, warehouse number, shift number, transaction type, and date range.
Warehouse Activity Summary	Use this report to determine the number of each type of transaction for the warehouse in the date range. Includes the warehouse description, transaction type, and total record count.

Inventory reports

This table shows the report name and description:

Report	Description
Activity By Pallet	Lists the pallet ID, product, date, activity type, lot number, the quantity before and after the activity, and the employee ID. Lists the old and new status codes of a specific pallet ID or all pallet IDs in a date range.
Calculate Pending ABC Utility	Enables you to make changes to the ABC Classification and see the effects of those changes before applying the changes.

Report	Description
Detailed Transactions	You can sort this report by product or location and date range. You can print the report for a specific employee or all employees, and include a specific zone or all zones. Any line that contains the product number includes both description lines of the product.
Empty Locations	Shows empty locations and primary products when applicable.
Inventory Detail By Location	Shows inventory in the locations that match the criteria entered on the report parameters window. Shows the location, pallet, product number, description, lot or serial number, total quantity, aisle, and zone.
Inventory Detail By Stock Number	Shows available and unavailable inventory by stock number for a range of product numbers and a specific status code. Can include serial numbers. The report can be sorted by product number or stock status.
Item Availability/Demand	Shows on hand, reserved, and demand quantities of a selected product or all products in the warehouse or for a particular zone.
Item History By Item	Shows transaction history for a product. Shows the product number and description, and the date the transaction occurred. Shows the status, starting balance, adjustments, receipts, returns, shipments, on hand quantity, calculated on-hand quantity and difference are included on the report.
Item History Summary	Shows status, date, start balance, receipts, returns, adjustments, shipments, ending balance, totals.
Item Records Missing Data	Shows locations for products that are missing cross-references, primary locations, and default warehouse zone.
Item: Kit Items	Shows kit product, description, kit quantity, available quantity, open quantity, quantity for order.
Item: Serial Items	Provides detailed information about serialized products. The **Inventory By Location Report** and **Inventory By Stock Number Report** also include detail for serial products.
Items (Non-Stock)	You can generate this report by product or location. The product, transaction type, zone, and class are displayed.
Items in Multiple Locations	Helps you determine if products can be consolidated. Shows products that are in multiple bins in the warehouse. Can include a range of products, for a specific zone, and include primary pick locations. Output is sorted by product, bin, and pallet.
Non-Stock Item Inventory	Helps you monitor the nonstocks that are in your warehouse for potential action or consolidation. Lists nonstock products, location, pallet, status, and quantity that are in the warehouse. You can sort this report by product totals or inventory by location.
Over Demand Items	Lists the orders with products that were not in stock. The on-hand and reserved quantities are also listed.
Pending Order Lines	Shows orders that have been released but have not been dropped. Includes the carrier, service, self ship, product and description, primary pick location, quantity.

Report	Description
Pending Put-Away Activity	Lists the inventory in dock or department stage-out locations that are ready to be put away.
Pending Replenishment By Item	Shows movement activities and product data that is cross-referenced by company number, warehouse number, and product number. If an individual pending movement is urgent, then an X is printed at the beginning of the line. Run this report before orders are dropped to ensure adequate quantities are in a location. Shows product number and description, lot, to locations and from locations, quantity, case quantity, number of cases, remaining units.
Physical Inventory Summary	Includes the warehouse zone, total number of locations that are counted/uncounted, total inventory records that are counted/uncounted, and warehouse zone accuracy percentage.
Physical Transactions	Includes the product number, location, lot number, quantity before and after.
Physical Inventory Valuation	Sorts products by **Product Warehouse Product Setup** cost type. Includes options to print bin locations per product and include total cost. You can specify a cut-off value.
Physical Inventory Variances	You can enter a location, a partial product number, zone, and aisle to view the qualifying variances on the report. Both negative and positive values are displayed. You can use the Recount column to keep track of which products must be recounted.
Physical Uncounted Inventory	During a physical inventory count, you can run this report for uncounted inventory by stock status, both, available, and unavailable. You can sort by product or location. You can print the report to a text printer or manually import the flat file into a spreadsheet.
Physical Un-Counted Locations	Includes products by warehouse zone or aisle that have not been counted. You can sort the report by zone or aisle, or location.
Primary Pick Locations By Item	Shows product, description, location, pick type, case quantity, pallet quantity, max/min, replenishment unit, replenishment quantity, calculated replenishment.
Primary Pick Locations by Location	Primary locations that contain non-primary products.
Quantity Discrepancy Report	You can run this report by product or location. Lists the quantity discrepancies by transaction type, expected quantity, actual quantity, and bin location.
Zero Quantity Inventory	Helps you locate inventory and receiving errors. Shows location, pallet, product, lot, and quantity for locations containing zero or negative quantities. When a partial product or location number is entered on the report parameter window, all records that begin with those characters are included.

Master reports

This table shows the report name and description:

Report	Description
Company	Shows basic information about your company.
Department	Shows a list of departments in your company.
Employee	Shows a list of employees. This report can be run for a specific department or a range of departments.
Item	Shows a list of products, descriptions, warehouse zone, cube, weight, pallet quantity, case quantity, and putaway group. This report can be run for a specific product, a range of products, or all products.
Location	Shows a list of locations in your company warehouse. Includes the zone, aisle, status, location type, primary pick indicator, height, weight, depth, and putaway group associated with the location. This report can be run for a specific location or range of locations.
Shift	Shows shift, description, start time, end time, and status. This report can be run for a specific shift or a range of shifts.
Station	Shows the station, station type, label printer, line printer and status. This report can be run for a specific station or for all stations.
Vendor	Shows the vendor number, name, address and status. This report can be run for a specific vendor or a range of vendors.
Warehouse	Shows the warehouses in your company including the address, region, and status.

Management reports

This table shows the report name and description:

Report	Description
ABC Analysis	Shows product number and description, location, quantity, price (N.A.), total sales (N.A.), total cube, total contribution (N.A.).
ABC Count Summary	Shows summary data, such as total part number records by part classification category [A, B, C, D]. Shows total part numbers by part classification category with an on-hand balance. Shows the number counted during the past designated cycle count rotation period.
Adjustment Code	Shows adjustment code, code description, location required flag.
Bin Hits	Shows zone, aisle, location, and number of times a picker extracts inventory to fill an order. Calculates on true bin hits for a location.

Report	Description
Count History by Bin by Product	Shows location, location class, product number, product class, last count type and date, operator performing the count, and the expected and actual quantities. Stock adjustments (AS) are included. These counts are shown: physical (YC), random bin (CB), random item (CI), and cycle (CS) count types, as specified on the report parameter window.
Count History by Product by Bin	Lists part numbers, location, last count type, and last count date. Use this report to review specific types of counting activities or stock adjustments that have been made within a specified time frame.
Count History by Product	Sorts in part number sequence by part classification. Included are the part number, part classification code, date of last physical inventory, and date of last cycle count for products with an on-hand balance.
Cycle Count Accuracy	Shows waves that are open for a period of time before they are completed. The transaction range depends on the completed date of the wave. Contains the cycle wave and type, location, product, unit accuracy, location accuracy, inventory accuracy.
Cycle Count Forecasting	End-of-day logic is used to determine present cycle counts; that is the records on hand that have not been counted in the rotation period. The logic determines the cycle counts that are created that night when end-of-day is run. That is, where the dates of the last inventory are greater than the number of days in the rotation period by classification code. The logic determines forecasts future cycle counts based on the user-defined number of days; that is the products that require counting within the chosen number of days.
Item Size Change	Shows vendor number and name, product, vendor product, old length, height, width, new length, height, width.
Item Weight Change	Shows vendor number and name, product number, vendor product, old weight, new weight.
Items: Not Used	Helps you identify potential dead stock. Shows product, description, quantity, number of locations.
Locations: Not Used	Shows location, zone, product, description, quantity.
Not Full Replenishment	Shows product number and description, primary location, case and pallet, quantity, replenishment unit, actual quantity, zone, and location.
Order Balancing Report	Shows number of open, assigned, in pick, picked, packed verified, total orders, order number and suffix, customer name, date.
Order Drop Rules	Provides detail for a single rule or all rules that are set up. Shows the criteria, scheduled days and times, active status, and priority.

Report	Description
Outstanding Orders	Useful for verifying day's work in a day and sorting orders that have not been completed. Use the report parameter criteria to select a specific order and suffix, a shipto customer, and an order status. In addition, select specific order types and classes, or include them all on the report. You can sort the report by order number, order status, order date, last transaction date, carrier, expected ship date, and ship-to customer. The order number and suffix, order date, number of lines, order status, order type, customer, shipping customer, carrier, and wave number are displayed. If you select the **`Show Detail`** option, then the line number, product, requested quantity, actual quantity, status, and carton numbers are displayed.
Pick Area Analysis	Shows replenishment and consolidation exceptions to indicate a procedural breakdown. Lists products that were picked from unassigned areas. Use this report to determine whether to move or reassign a product to a different area.
Primary Pick Locations With No Pick Activity	Reviews all primary locations for the range of picking dates specified. If a location does not have any pick records, open or in the process of being picked, then the location is added to the report. The latest date the location was counted is also included. You can use this report to determine if a primary location should be reclassified or reassigned to a faster-moving product. Shows if picking activity is occurring at a location that needs to be maintained.
Stock Adjustment By Code	Provides a summary of the stock adjustment (AS) transactions within the date range. If a qualifying stock adjustment is found, the adjustment is separated by stock status and adjustment code. A total number of counts is included. This report helps you determine why stock adjustments are being made, and whether they are valid.
System Parameters	You can print a single parameter or all parameters, and sort the report by parameter or type of function. You can choose whether to show the descriptions. The Options page shows the parameter types. You can use this report for setup and support purposes.
Unpacked Orders	Lists the orders that went unpacked from wave to wave. Can be sorted by wave or carrier. Includes wave number, order number and suffix, status, carrier, line number, product number, requested quantity, actual quantity, pick location, pick quantity.
Unshipped Orders Through Waves	Shows order number and suffix, carrier, service, line number, product number, requested quantity, picked quantity, status, carton ID.
Vendor Cross Reference	Shows cross-references between the vendor product number and your product number. You can sort by vendor, vendor product number, or product number. You can run the report for a particular zone and aisle or for the entire warehouse.
Verification Transaction Report	Reviews Order Pack Verification (KE/KV) transaction types.

Report	Description
Warehouse Fill Level By Zone	Shows the zone, type, number of locations with inventory, and number of free locations.
Warehouse Zone Picks	Lists picking activity by zone to help you determine if products must be moved to a less congested zone. Lists the zone, aisle, location, wave, product number, quantity, and total by zone.
Warehouse Zone Picks: Summary	Shows a summary of Warehouse Zone Picks; includes wave number, zone, locations, picks, units, total by wave, total by warehouse.
Wave Cube/Weight	Lists the wave, branch, order, cartons, cube, and weight for the wave range specified.
Zero Shipped Items	Helps you locate systemic problems. Lists product number and description, wave number, ship date, quantity.
Zero Shipped Orders	Helps you locate systemic problems. Lists order number and suffix, product number and description, wave number, ship date, quantity.

Transaction types

Various transaction types are used in TWL transaction history when running reports and looking at data. This table shows the most common transaction types:

Type	Description
AS	Stock Adjustment
CA	Cycle Count Activate
CB	Random Bin Cycle Count
CD	Cycle Count Deactivate
CI	Random Item Count
CP	Carton Sortation to Pallet
CS	System Cycle Count
GA	System Parameter Change
IA	Picking Associate
IC	Primary Pick Change
ID	Item Data Change
IG	Picking

Type	Description
II	Incomplete Item Info
IM	Pick Movement
IN	Order in pick
IO	Order picked
IP	Print Pick Ticket
IS	Item Size Change
IU	Un-Picking
IW	Item Weight Change
KC	Carton to Carton Transfer
KG	Packing
KO	Order packed
KP	Packing List Printed
KS	Carton Size Change
KT	Tote to Tote Transfer
LP	Label Print Non-Legacy
MC	Movement consolidation
MR	Replenishment
MS	Movement stock movement
MT	Movement Top Off Generated
MU	Unplanned Replenishment
P0	p-zero, Need to Print Employee SCM La
P1	p-one, Employee SCM Label Printed
PA	Put Away
PC	Put Away Closure
PR	Print SX.e Packing List
RC	RT Closure
RE	Stock Receipt
RM	Receipt Modification Trans. Record
RO	RT Re-open
RR	PO Request
RS	Consolidated Receipt Send

Type	Description
RX	Recv. Pallet Transfer
RZ	Recv. Transaction Hold
SH	Shipping
SO	An order has shipped completely
ST	Staged Shipping
WC	Work Center Consumption
WR	Work Center Release
WS	Work Center Receiving
XI	Stage Location In Movement
XO	Stage Location Out Movement
YA	Physical Inventory Activate
YC	Physical Inventory Count
YD	Physical Inventory Deactivate
YF	Physical Inventory Finish
ZI	Incomplete Item information
ZM	Item missing from the database