



JD Edwards World

Bulk Stock Management

Guide

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1 Overview

Overview to Bulk Stock Management

System Integration

The Bulk Stock Management system controls the storage, measurement, and movement of bulk inventory. You can tailor the system to handle the complexities of constantly changing inventory in your business environment. You can also track bulk inventory so that you always know the location and amount of each product available for sale or production.

The Bulk Stock Management system works in conjunction with other JD Edwards World systems in order to:

- Manage the immense volume of product sales, purchases, movements, and adjustments
- Provide an efficient means for initial system setup and long-term maintenance
- Provide timely information and reports to review inventory status
- Improve communication and quality control

This section contains the following:

- [Features of Bulk Stock Management](#)
- [Bulk Stock Management](#)
- [Tables](#)
- [Menu Overview](#)

Features of Bulk Stock Management

Key features of the Bulk Stock Management system are:

- Intra-depot stock movements
- Bulk product receipts
- Reconciliations

The Bulk Stock Management system enables you to perform the following functions:

- Control the storage and movement of liquids from one container to another at varying temperatures
- Calculate the volume for each transaction (sale, receipt, movement, and so on), for each product and for each container (tank, truck, and so on)
- Perform volume and density conversions to any base temperature using international standard algorithms

- Calculate product gain or loss accurately for each stock movement
- Track inventory balances for each product in various units of measure and show the details of the transactions creating the balance
- Track commingled/custody stock in a tank and manage the transactions associated with each product by owner

Intra-Depot Stock Movements

Intra-depot stock movements track inventory within a depot. The primary transactions, receiving new product and selling to customers, add or decrease inventory into and out of a depot.

You record an intra-depot stock movement whenever you need to account for stock that can no longer be accounted for in the location or container to which it was previously assigned.

Bulk stock movements include:

- Tank to tank transfers
- Repacking
- Rebrands
- Regrades
- Decanting
- Filling
- Simple blend
- Consumed in operations
- General stock adjustments

Movements can occur at numerous points within a depot. General Stock Movements allows you to record the various types of movements, convert them to standard quantities via calculation programs, and record any gains or losses that might have occurred.

Bulk Product Receipts

You record the receipt of bulk products requested on a purchase order as they arrive at the depot. You can confirm the receipt of the products requested on the purchase order, record the volumes received, and make adjustments to correct variances. Additionally, you can calculate any gains or losses that might have occurred during transportation.

As product moves between storage locations, gains or losses might occur due to spillage, theft, faulty meters, and so on. Four Point Analysis Maintenance helps you track these gains or losses. You perform a four point analysis primarily for long voyages to determine the product lost in transit, but you can record the data for any movement.

Receipts is a standard JD Edwards World program. However, when you record the receipt of a bulk product, the Energy and Chemical Solutions (ECS) version displays

a Bulk Product Receipts window that allows you to record volumes and the product temperatures recorded when the product is received.

Reconciliations

The reconciliation process attempts to reconcile confirmed sales figures for a given period. During this process, the system should identify discrepancies due to transactions not being entered (lost invoices), theft, leakage and/or faulty meters.

Throughput Reconciliations

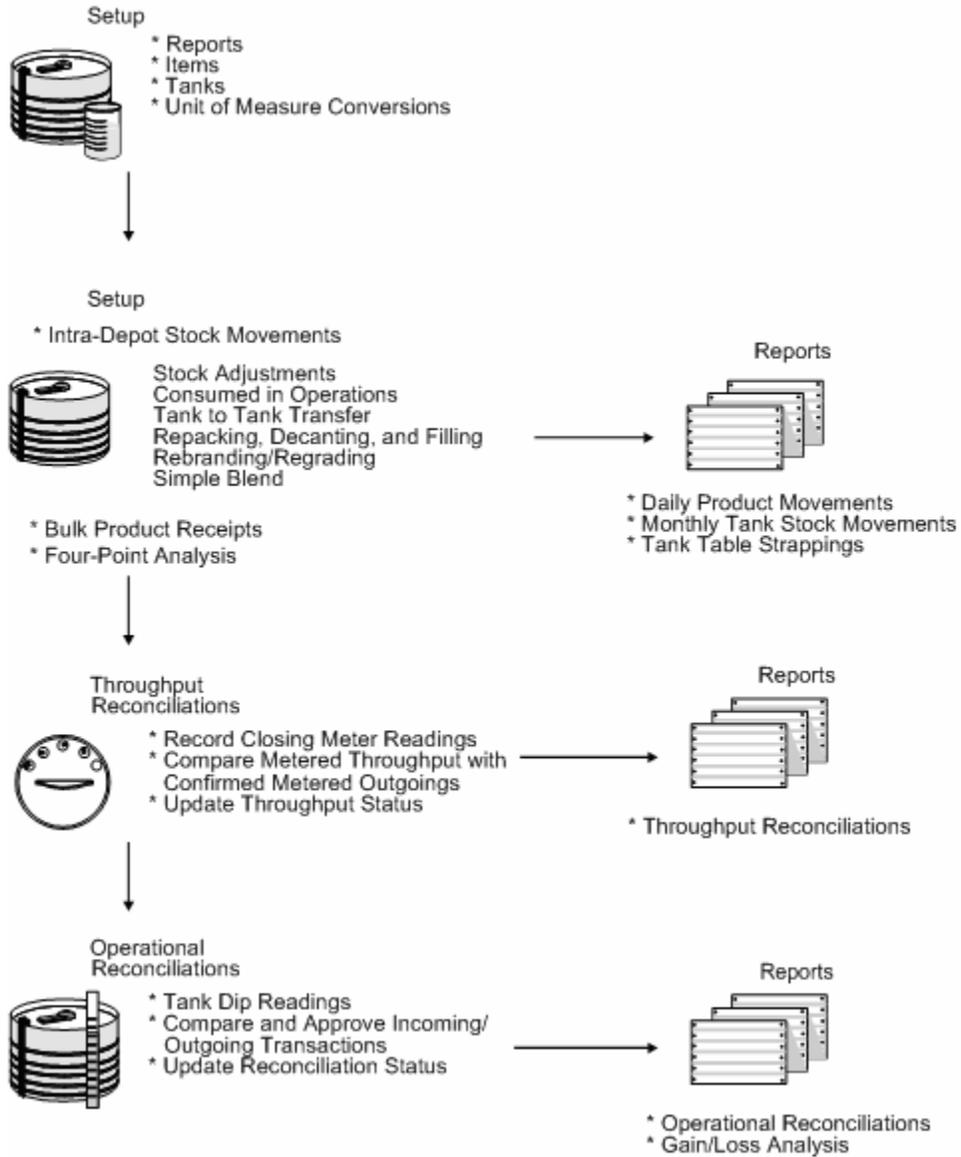
Throughput reconciliation compares confirmed sales figures and other metered outgoings for a given period with the measured throughput based on the meter readings. The comparison identifies discrepancies due to transactions not being entered, theft, leakage, or faulty meters.

Operational Reconciliations

Operational reconciliation performs the “true” reconciliation process. From all inbound and outbound transactions (since the last reconciliation), the system calculates the amount that should be in physical inventory, and compares it to the actual amount in the tanks (from the final physical tank dip). In other words, it measures and compares the physical inventory levels with the book inventory levels, so differences can be reconciled and operational gains or losses recorded. It then updates the book inventory to reflect the current physical inventory.

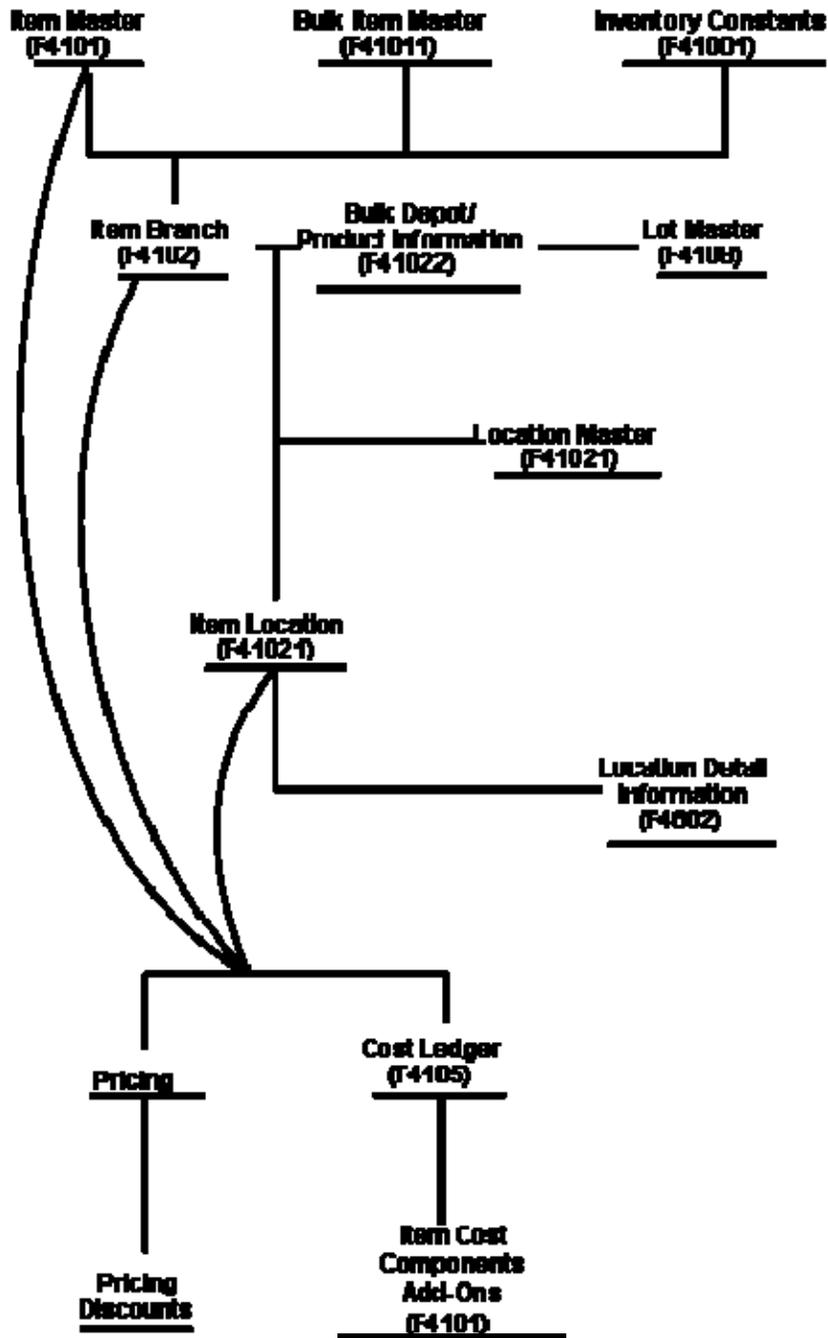
Bulk Stock Management

The following summarizes the tasks for managing bulk stock.



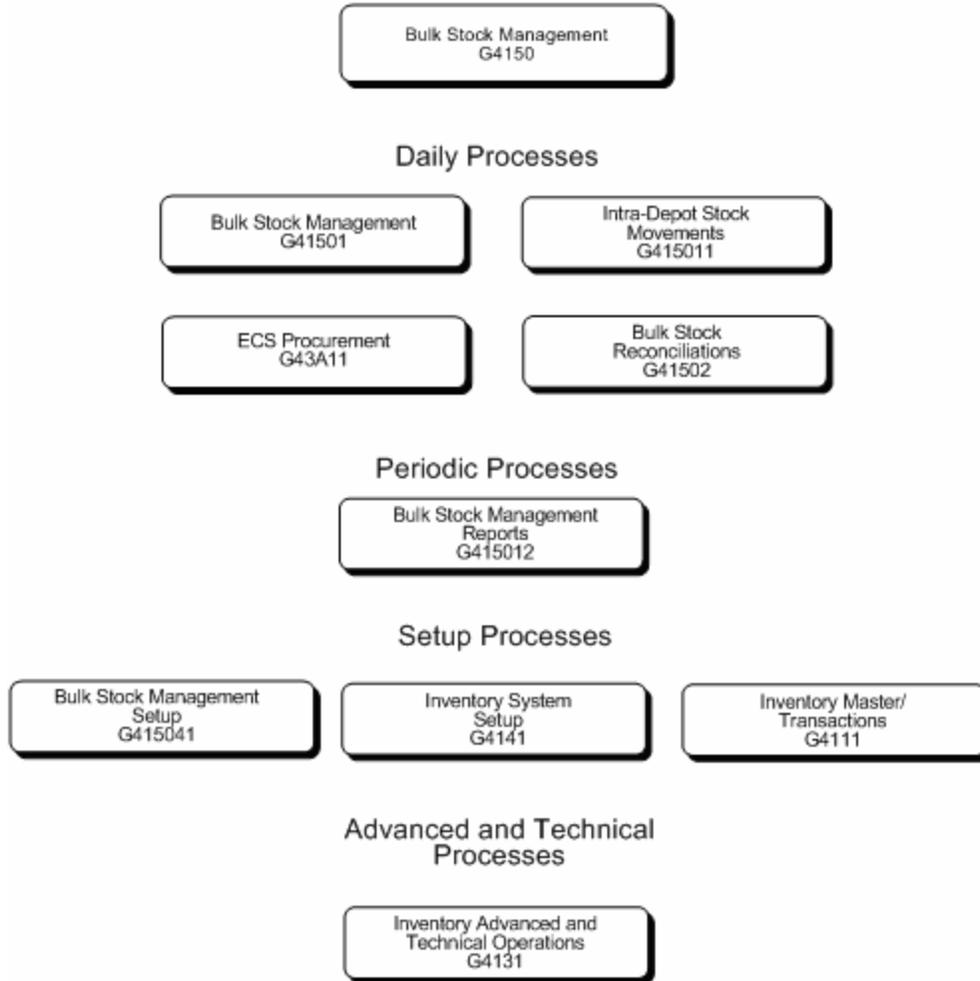
Tables

The following illustrates the tables used by the Bulk Stock Management system and their contents.



Menu Overview

The commonly used menus for the JD Edwards World Bulk Stock Management system are listed below.



2 Intra-Depot Stock Movements

Overview to Intra-Depot Stock Movements

Objectives

- To understand temperature and density conversions for bulk products
- To understand how to account for commingled stock
- To understand the types of intra-depot stock movements
- To record the different types of intra-depot stock movements
- To calculate ambient volume and weight and convert to standard volume and weight
- To calculate and record gains and losses associated with intra-depot stock movements

About Intra-Depot Stock Movements

Intra-depot stock movements track inventory within a depot. The primary transactions, receiving new product and selling to customers, add or decrease inventory into and out of a depot.

You record an intra-depot stock movement whenever you need to account for stock that can no longer be accounted for in the location or container to which it was previously assigned.

A single intra-depot movement can be a “from” transaction, a “to” transaction, or both, and can have multiple lines for each entry. “From” transactions reduce inventory in a location. “To” transactions increase inventory in a location.

Before you can record volumes, you might need to calculate them from dip readings or weighbridge information. The system performs conversions in order to record volumes for bulk stock based on a standard temperature.

Complete the following tasks to record intra-depot stock movements:

- Understand volume measurement and conversion
- Understand commingled stock
- Record intra-depot stock movements
- Calculate volume from dip readings (optional)
- Calculate volume from weighbridge information (optional)

See Also

- *Transferring Inventory (P4113)* in the *Inventory Management Guide* for information on inventory movements

Understanding Bulk Stock

About Bulk Stock

The volume of a bulk product changes in relation to ambient temperature. Ambient temperature is the temperature of the surrounding environment that a product is in, such as a tank or a compartment of a vehicle. To record volume at a common base for all stock movements, you need to convert volume that you have calculated at ambient temperatures to volume calculated at a standard temperature. The system uses only standard volumes to make adjustments to bulk inventory.

This section contains the following:

- [How Does Temperature and Density Affect Volume?](#)
- [How Does the System Convert Volume?](#)
- [How Do You Measure Volume?](#)
- [How Do You Measure Temperature and Density?](#)

How Does Temperature and Density Affect Volume?

Temperature has a rather unique effect on liquids. A liquid product expands when its temperature rises and contracts when its temperature declines. How much the product expands or contracts is its relative density. The more dense the liquid, the less the liquid expands or contracts.

When you measure liquid products, you need to convert the volume measured at the ambient temperature of the liquid to its volume based on a standard temperature. The system performs this conversion using standard tables or algorithms. You define the standard temperature to which you want to convert for each product by depot.

How Does the System Convert Volume?

When you record an intra-depot stock movement, a receipt of stock, or other volume entry for bulk stock, you can enter volumes calculated at ambient or standard temperatures. The system uses the temperature and density table indicated on the Bulk Product Information form to calculate a volume correction factor (VCF). It then multiplies the VCF by the ambient quantity to get the standard quantity. If the depot's standard temperature is different from the temperature used in the table, a secondary conversion is made to convert from the base table temperature to standard.

If no table is indicated, the system uses the co-efficient of expansion to calculate the standard volume.

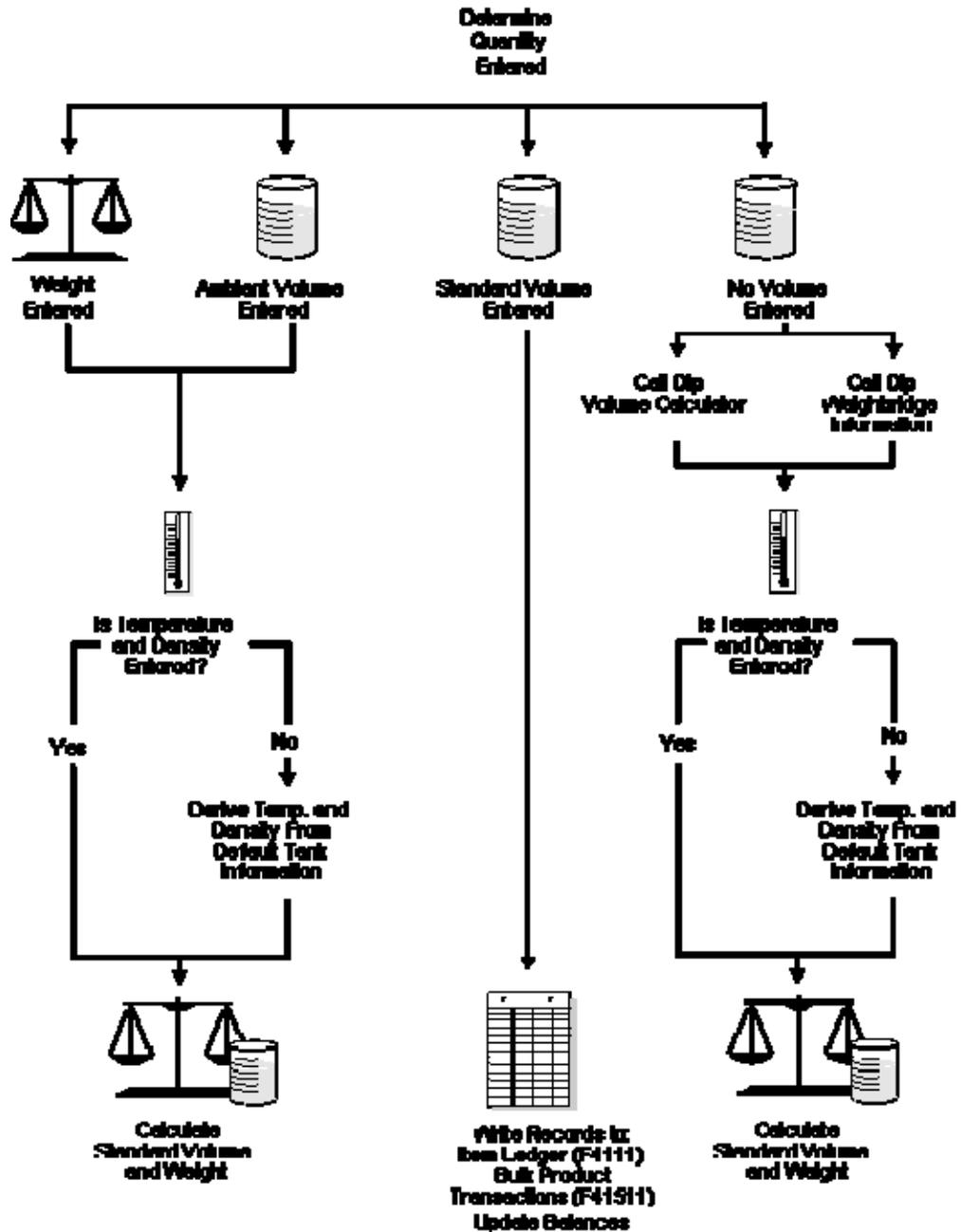
The system also calculates the weight of the product and converts the standard quantity to the Primary Stock Accounting Unit (PSAU) quantity for the product.

To calculate volume for asphalt and bitumen products or other products stored in heated tanks, the system also applies an expansion factor to account for the tank temperature.

The system records the following for volume conversion:

- Ambient volume
- Standard volume
- Weight
- PSAU quantity, either weight or volume

The following graphic illustrates the process that the system uses to calculate volume and weight.

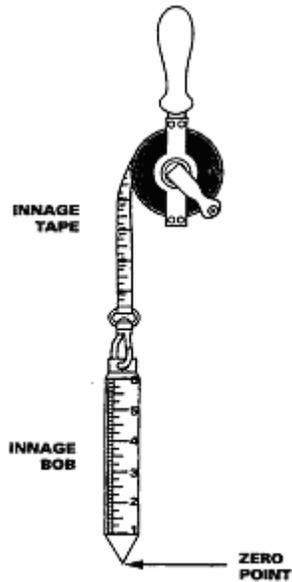


How Do You Measure Volume?

To measure the volume of bulk products, you can perform various types of dips or use a weighbridge to weigh the product. Tank dip readings include the pipeline and discharge volumes, plus the initial dip volume.

Dip Measurement

A wet dip (innage) measures the liquid height in the tank. You measure the liquid height by lowering the innage tape and bob to the gauge striking point of the tank, pulling it out, and noting where the liquid marks the tape.

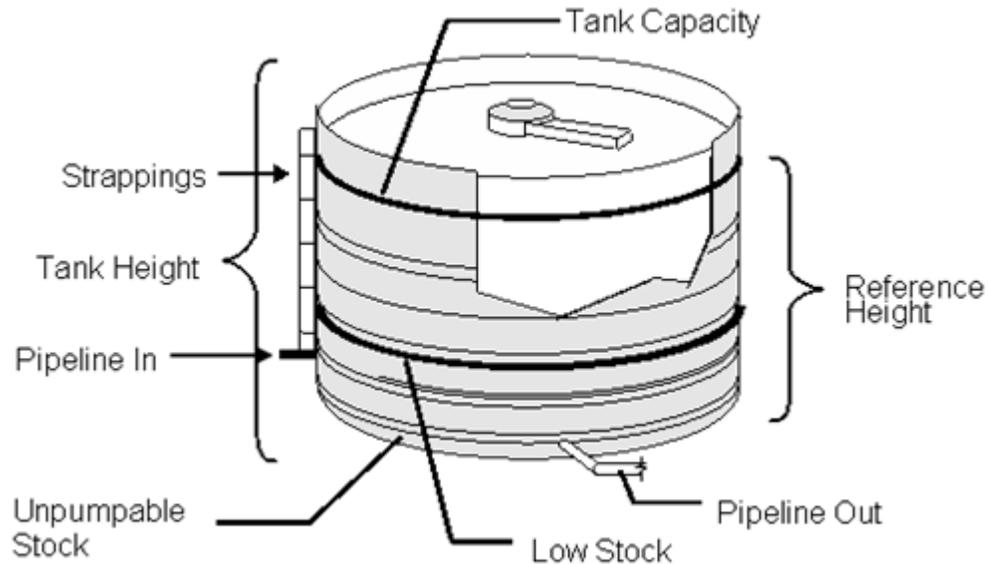


Innage tape and bob

A dry dip (ullage) measures the space between the liquid and a reference point at the top of the tank. You perform this type of dip when the product is too thick to be accurately measured. You measure the space between the top of the liquid and the reference point, and then determine the liquid height by subtracting the dry dip measurement from the reference height.

Tank Gauging and Strapping

After you measure the height of the liquid in the tank, you refer to the strapping table computed specifically for that tank. The strapping table converts tank dip readings to gross volumes for a particular tank.



Strapping tables might be set up in the following ways:

Measurement	Description
Shell Height	Distance between the bottom of the bottom angle of the tank and the top of the top angle of the tank.
Gauging Height or Reference Height	Distance from the striking point on the tank floor (or strike plate) to a designated reference point on the gauge hatch.
Effective Inside Tank Height	Distance from the strike plate to the top angle, or where the product would begin to overflow. This height defines the upper and lower limits of the tank table.

Water and Sediment Height

When determining the gross amount of product in a tank, you must subtract the water and sediment from the total amount of product in the tank. To do this, you cover the innage tape with a water-finding paste, and then perform a wet dip. The paste reacts with the sediment, dissolves, and turns the tape red.

Floating Roofs

Floating roof tanks are normally used for aviation fuels or other products where it is critical to minimize the amount of water in the product.

Floating roof tanks have a moveable roof that floats on top of the product in the tank. A tank with a floating roof displaces a certain amount of liquid around its

edges and up into the tank hatch. With such tanks, you must make a correction to the product measurement. The amount of displacement depends on the weight of the roof.

Heated Tank

A depot uses heated tanks for bulk products that need to be kept heated, such as asphalt and bitumens. A depot might also use a heated tank for any bulk product that might be abnormally expanded, as would occur in a cold environment.

Weighbridge Measurement

You can use a weighbridge to weigh the product in a tank, for example, a tank on a truck. To do so, you subtract the weight of the vehicle from the total weight. The system uses the weight to calculate volume. Weight is typically standard. It is not subject to volume changes in relation to temperature and density.

How Do You Measure Temperature and Density?

There are many types of thermometers for measuring the temperature of liquid in a tank and some that are standard for a particular type of tank. The temperature of liquid in a tank might vary throughout its depth, so you might need to perform readings at various depths and calculate an average reading.

You use a hydrometer to measure the density of liquids. A hydrometer floats vertically in liquid petroleum. Its buoyancy depends on the density of the liquid. You first take a sample of the liquid from the tank and put it in a glass cylinder. Then, lower the hydrometer into the tank and take a reading, as well as a temperature reading (using a thermometer). You use the temperature reading to convert from the density at the liquid's ambient temperature to the density at its standard temperature.

See Also

- *Calculating Standard Volume* in Appendix C
- *Defining Depot Temperature and Density (P41002)* for defining the standard temperature
- *Defining Default Units of Measure for Bulk Items (P41012)* for defining the PSAU
- *Calculating Volume from Dip Readings (P415102)*
- *Calculating Volume from Weighbridge Information (P415104)*
- *Setting Up Basic Tank Information (P415001)* for setting up a heated tank
- *Working with ASTM Tables (P415311)* for information on the D4311 density tables for asphalt and bitumen products

Understanding Commingled Stock

About Commingled Stock

You might hold stock belonging to another company at your depot, within the same tank as your own stock. This is known as commingled stock. Trading partners for whom you hold stock typically do not find it feasible to carry all the products that they want to sell. Or they might have a dry depot, in which they carry no stock at all.

When the company enters a sales order, a driver might be required to pick up the stock at your depot. When the driver picks up the stock, you can enter an inventory transaction to take stock out of the tank or enter a sales order and create a trip to download to a gantry. If your driver is delivering the stock, you can enter a sales order and create a trip if you want to include the trip in your dispatch planning. If you enter a sales order, you can charge a handling fee as the sales price.

Whenever you make a stock movement, record receipt, load stock, or record a disposition, you must specify the owner of the product if the tank in use is set up for commingled stock. These transactions should be reflected in inventory, but not in accounts receivable or the general ledger.

Energy and Chemical Solutions accounts for two types of commingled stock:

- Commingled for custody
- Commingled for duty

Commingled for custody refers to stock that is owned by your trading partner, but stored in your tank. The trading partner might not have a depot in your area, but still needs to serve its customers.

Commingled for duty refers to stock in tanks that hold both duty-free and duty-paid stock. For example, you might sell duty-paid stock to domestic customers and duty-free stock to international customers or the government.

Stock can also be both commingled for custody and for duty. For example, you might hold duty-free stock in your tank for your trading partner.

To correctly account for the two types of commingled stocks, you can set a processing option in the following systems:

System	Transaction
Bulk Stock Management System	<ul style="list-style-type: none">▪ Stock Movements▪ Enter Receipts by Purchase Order
Load and Delivery Management System	<ul style="list-style-type: none">▪ Confirm Bulk Load▪ Bulk Disposition

See Also

- *Setting Up Depot Locations (P4100)* for information on setting up item/location combinations for commingled stock
- *Setting Up Additional Tank Information (P415002)* for information on defining a tank for commingled stock
- *Reviewing Commingled Stock* to review the inventory balances for tanks containing commingled or custody stock

Record Intra-Depot Stock Movements

Recording Intra-Depot Stock Movements

You can record the following types of intra-depot stock movements so that your inventory is always accurately accounted for:

- Bulk stock adjustments
- Consumed in operations - own use
- Tank to tank transfer
- Repack
- Rebrand
- Regrade
- Decant
- Fill
- Simple blend

Six processing groups, defined by the processing options, determine how each of the stock movements is processed.

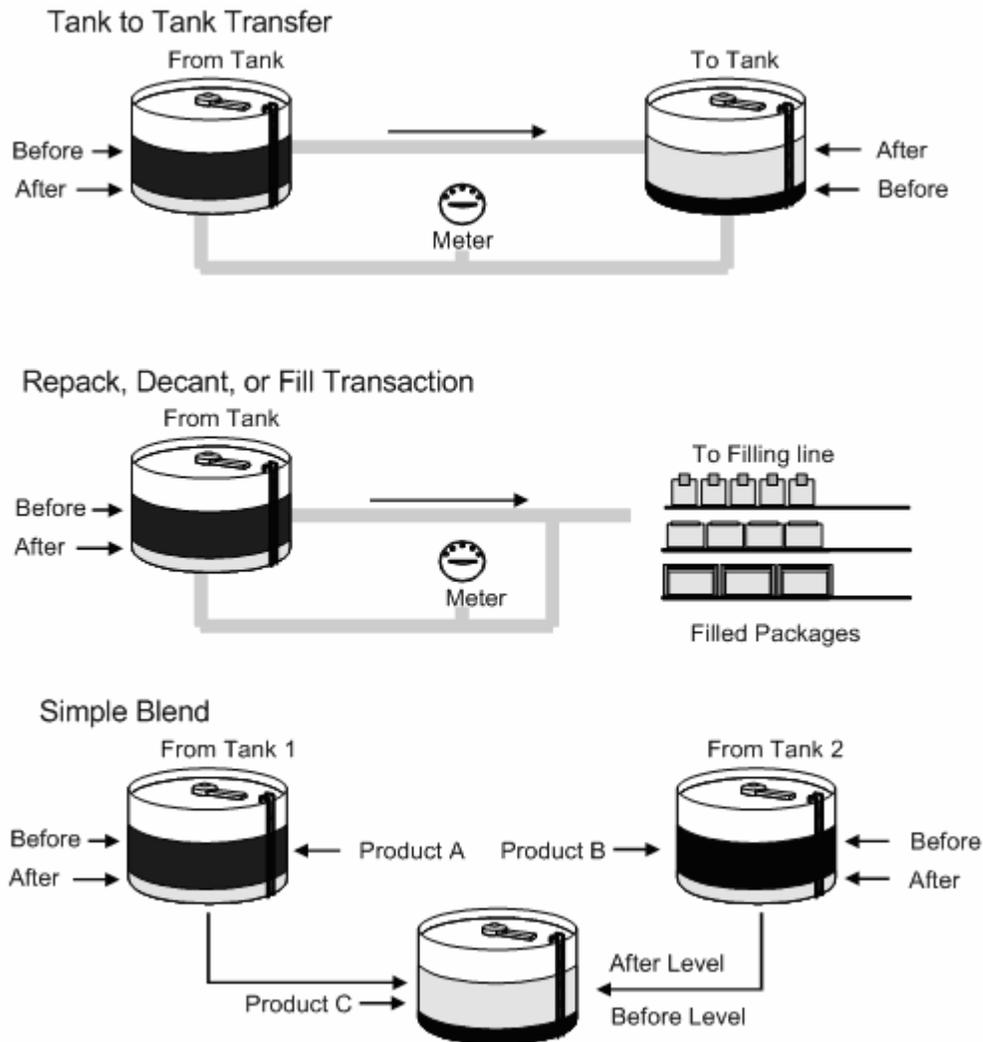
Choose the appropriate movement form based on the type of stock movement you need to perform. Following each movement form below is an explanation of how to record the type of movement, including the “from” (F) or “to” (T) lines required, document type, examples, and whether the movement results in a gain or loss.

Movement	Description
Bulk Stock Adjustment	<p>Any adjustment to inventory</p> <ul style="list-style-type: none">▪ Record a “from” or a “to” (not both)▪ Example:<ul style="list-style-type: none">F - Spillage line lossT - Receipt of product▪ No gain or loss▪ Document Type - BJ

Movement	Description
Consumed in Operations - Own Use	<p>Used in internal operations</p> <ul style="list-style-type: none"> ▪ Record a “from” or a “to” (not both) ▪ On a “from” transaction, can specify the account to be expensed ▪ Examples: Cleaning tanks, running vehicles F - Tank T - Return to tank ▪ No gain or loss ▪ Document Type - BO
Tank to Tank Transfer	<p>Transfer from one tank to another within the same depot</p> <ul style="list-style-type: none"> ▪ Record a “from” and a “to” ▪ Examples: Maintenance, replenishing of commingled stock F - Tank A T - Tank B ▪ Gain or loss ▪ Document Type - BT
Repack	<p>Repack from one package size to another</p> <ul style="list-style-type: none"> ▪ Record a “from” and a “to.” Program allows multiple “from” and “to” lines ▪ Examples: Drums to other containers, such as cans F - 10W40 drums T - 10W40 cans ▪ Gain or loss, such as due to spillage ▪ Document Type - BP
Rebrand	<p>Change to stock item (no physical movement)</p> <ul style="list-style-type: none"> ▪ Record a “from” and a “to” ▪ Examples: Change due to confirming supply under incorrect item; renaming an item: F - Base Oil A T - Base Oil B ▪ No gain or loss ▪ Document Type - BR

Movement	Description
Regrade	<p>Change to stock item (no physical movement)</p> <ul style="list-style-type: none"> ▪ Record a “from” and a “to” ▪ Normally due to customer demand ▪ Examples: Take a higher grade product and sell as lower grade F - Premium T - Unleaded ▪ No gain or loss ▪ Document Type - BR
Decant	<p>Empty a packaged item</p> <ul style="list-style-type: none"> ▪ Record a “from” and a “to.” Program allows multiple “from” and “to” lines ▪ Examples: Convert additives from drums to bulk storage F - Package product decanted T - Bulk product T - Empty container ▪ Gain or loss due to loss in process, e.g. spillage ▪ Document Type - BD
Fill	<p>Take bulk product in tank and fill drums or canisters</p> <ul style="list-style-type: none"> ▪ Record a “from” and a “to.” Program allows multiple “from” and “to” lines ▪ Examples: F - Empty containers F - Bulk stock T - Filled package product ▪ Gain or loss due to loss in process, e.g. spillage ▪ Document Type - BL
Simple Blend	<p>Blend multiple products to make another</p> <ul style="list-style-type: none"> ▪ Record a “from” and a “to.” Program allows multiple “from” and “to” lines ▪ Increases quantity on hand of current product in tank ▪ Examples: F - Bulk Product A F - Additive 1 T - Bulk Product C ▪ No gain or loss ▪ Document Type - BB

The following graphics illustrate the movement of stock in a tank to tank transfer; repack, decant, or filling transaction; and a simple blend.



For a fill, decant, or repack, if you must record a gain or loss, you need a conversion at the item level for the volume of each unit of the packaged product. You also need to set up a conversion factor of .0000001 per one empty package so that the system can convert each subfile line to the unit of measure of the bulk gain/loss item. Set this up at the system level for each empty package unit of measure, for example, .0000001 LT per 1.0 item.

Packaged items contain bulk stock at standard temperature, not ambient, because the temperature of the product in the package cannot be determined.

Record a rebrand when product is mislabeled coming in and needs to be renamed. Alternatively, you might want to record a rebrand if the same product is sold under different names to different customers for marketing reasons. One way to handle such a case is to make one product a parent item and the other a component of a kit.

The system requires that all volume and weight units of measure have conversions to kilograms (KG) and cubic meters (M3) for calculation purposes.

Additionally, you can account for gains or losses that might occur during a stock movement and record stock movements involving kit items.

When you record stock movements, the system updates the following tables:

- Item Ledger (F4111)
- Bulk Product Transactions (F41511), if a bulk item is moved
- Gain/Loss Transactions (F41512), if a gain or loss is created
- Account Ledger (F0911)
- Item Location (F41021)
- Location Detail Information (F4602), if warehouse control is activated for the branch/plant

You can record stock movements only to the current accounting period.

This section contains the following:

- [Recording an Intra-Depot Stock Movement](#)
- [Recording an Intra-Depot Stock Movement for a Kit](#)
- [Recording a Gain or Loss on an Intra-Depot Stock Movement](#)

Recording an Intra-Depot Stock Movement



<p>From Bulk Stock Management (G4150), choose Bulk Stock Management From Bulk Stock Management (G41501), choose Intra-Depot Stock Movements From Intra-Depot Stock Movements (G415011), choose an option</p>

Record stock movements whenever you must account for stock that can no longer be accounted for in the location or container to which it was previously assigned.

For each type of intra-depot stock movement, you complete the same basic steps to record the transaction. The form and the information you need to enter vary, depending on the type of movement you are recording (defined by the processing group) and the processing option settings.

Alternatively, you can use the Dip Volume Calculator or Weighbridge Information programs to calculate ambient volume.

See *Calculating Volume from Dip Readings* or *Calculating Volume from Weighbridge Information*.

Alternatively, you can let the system calculate the Standard Volume.

See *About Bulk Stock*.

4. Access the detail area.

Product	Loc/Tank	Ambient Volume	Standard Volume
UHL	TKUHL1	15000000	1.00
UHL	TKUHL1	15000000	2.00

5. Complete the following optional fields:

- Owner/Duty
- Journal Entry Update
- Reason Code
- Agreement Number
- Agreement Supplement
- Lot
- Lot Expiration
- Lot Status Code
- Unit Cost
- Extended Cost

Field	Explanation
Document No./Type	<p>The number that identifies an original document. This can be a voucher, an order number, an invoice, unapplied cash, a journal entry number, and so on.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>If you leave this field blank, the Next Numbers program automatically assigns a number when you enter a new transaction.</p>
Order Type	<p>A user defined code (00/DT) that identifies the type of document. This code also indicates the origin of the transaction. JD Edwards World has reserved document type codes for vouchers, invoices, receipts, and time sheets, which create automatic offset entries during the post program. (These entries are not self-balancing when you originally enter them.)</p> <p>The following document types are defined by JD Edwards World and should not be changed:</p> <ul style="list-style-type: none"> P Accounts Payable documents R Accounts Receivable documents T Payroll documents I Inventory documents O Purchase Order Processing documents J General Accounting/Joint Interest Billing documents S Sales Order Processing documents
Explanation	<p>This text identifies the reason that a transaction occurred.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>The user defined code based on the document type provides the default value.</p>
G/L Date	<p>A date that identifies the financial period the transaction is to be posted to. The Company Constants table for the General Accounting system shows the date range for each financial period. You can have up to 14 periods. Generally, period 14 is used for posting audit adjustments.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>If you leave this field blank, the default value is the current date.</p>

Field	Explanation
From/To	<p data-bbox="776 264 1406 499">Indicates whether this line in the transaction is a From line or a To line. This field allows you to combine multiple existing products/locations into a single product/location, for example, three From lines and one To line. You can also split one existing product/location into several new products/locations, for example, one From line and two To lines. The information in a From transaction line is always existing item location information.</p> <p data-bbox="971 520 1219 548"><i>Form-specific information</i></p> <p data-bbox="776 562 1406 674">Depending on the type of intra-depot stock movement, the transaction can be a From, a To, or both. A From transaction reduces the inventory in that location. A To transaction increases the inventory.</p> <p data-bbox="776 695 1406 751">Processing Groups 1 and 2 can have either a From or a To transaction, but not both.</p> <p data-bbox="776 772 1406 821">Processing Groups 3, 4, 5, and 6 must have both a From and a To transaction.</p>
Loc/Tank	<p data-bbox="776 852 1406 909">An 8-character field identifying the tank as defined on the Branch/Plant Constants form.</p> <p data-bbox="971 930 1219 957"><i>Form-specific information</i></p> <p data-bbox="776 972 1406 1024">Searching for a specific location/tank returns the tank ID plus the lot number, if one exists.</p>
Ambient Volume	<p data-bbox="776 1056 1406 1140">The volume as measured for density and temperature prior to conversion. You can enter the ambient quantity or let the system automatically calculate it.</p>
Standard Volume	<p data-bbox="776 1171 1406 1255">The volume after it has been converted to a standard base. Conversions are made according to published standard routines for density/gravity and for temperature.</p>
Owner/Dty	<p data-bbox="776 1287 1406 1398">A number that identifies an entry in the Address Book system. Use this number to identify employees, applicants, participants, customers, suppliers, tenants, and any other Address Book members.</p> <p data-bbox="971 1419 1219 1446"><i>Form-specific information</i></p> <p data-bbox="776 1461 1406 1581">Use this field only for tanks with commingled stocks or with duty-paid and unpaid product in the same tank. If the Stock Commingled field on the Additional Tank Information form contains a Y, B, or D, this field is required.</p>
J/E Upt	<p data-bbox="776 1612 1406 1724">Controls whether to update the General Ledger (G/L) for commingled product. Typically, you update the G/L for the product that belongs to your company's inventory, not the product that belongs to another owner.</p> <p data-bbox="776 1745 954 1772">Valid values are:</p> <ul data-bbox="776 1787 1406 1850" style="list-style-type: none"> <li data-bbox="776 1787 1406 1814">▪ Y or 1 - (Yes) A journal entry is written. <li data-bbox="776 1829 1406 1850">▪ N or 0 - (No) A journal entry is not written.

Field	Explanation
Reason	<p>A user defined code (system 42/type RC) that explains the purpose for a transaction. For example, you can indicate the reason that you are returning items, such as the goods were damaged in shipment or too many goods were shipped.</p>
Agrm/Supp	<p>A unique number your company assigns to identify a particular agreement. You might want to assign some significance to the agreement number (for example, an agreement type code, location, year, and so forth). An agreement might have multiple supplements to record addendum or changes, for example.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>If this transaction is part of an agreement with a business partner, enter the agreement number.</p>
Lot/SN	<p>A number that identifies a lot or a serial number. A lot is a group of items with similar characteristics.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>A processing option controls whether the Lot field appears. Complete the lot information only if you are using lot processing.</p>
Lot Exp	<p>The date on which a lot of items expires.</p> <p>The system automatically enters this date if you have specified the shelf life days for the item on Item Master Information or Item Branch/Plant Information. The system calculates the expiration date by adding the number of shelf life days to the date that you receive the item.</p> <p>You can commit inventory based on the lot expiration date for items. You choose how the system commits inventory for an item on Item Master Information or Item Branch/Plant Information.</p>
Lot Status Code	<p>A user defined code (table 41/L) that indicates the status of the lot. If you leave this field blank, it indicates that the lot is approved. All other codes indicate that the lot is on hold.</p> <p>You can assign a different status code to each location in which a lot resides on Item/Location Information or Location Lot Status Change.</p>
Unit Cs	<p>The amount per unit (the total cost divided by the unit quantity).</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>A processing option controls whether this field appears. If you leave this field blank, the system uses the cost setup for the item in the Cost Ledger field, based on the costing method for the item branch being used.</p>

Field	Explanation
Ext. Cost	<p>For accounts receivable and accounts payable, this is the invoice (gross) amount. For sales orders and purchase orders, this is the unit cost times the number of units.</p> <p><i>Form-specific information</i></p> <p>A processing option controls whether this field appears. The value is calculated as quantity multiplied by the unit cost. To give your inventory a new dollar value, you can enter a dollar amount only transaction in this field and leave the quantity and unit cost information blank.</p>

What You Should Know About

Deleting or changing previous transactions

You cannot delete or change previously entered transactions. This is because the inventory has been updated and G/L records written.

If you enter a transaction in error:

- Locate the transaction
- Reverse the entry
- Enter any information on a blank line to correct the error

When you reverse a transaction, post the new batch created by the reversal to update the general ledger. On a reversal, the program stores the general ledger date from the original transaction as the historical date.

Entering by ambient volume or weight

A processing option determines whether the Weight or Ambient Volume field displays on the detail line. When you enter the ambient volume in the detail line, the system calculates the weight and displays it in the detail area. When you enter the weight, the system calculates the ambient volume and displays it in the detail area.

Entering account and subledger information

You can set a processing option to display account and subledger information fields. This option is available only for the following processing groups:

- Bulk stock adjustments
- Consumed in operations - own use

Recording empty containers

Enter a separate transaction for any empty containers resulting from a movement. Do not convert empty containers to a bulk unit of measure. Because zero is not allowed, the conversion usually equals .0000001.

Reviewing journal entries

When you enter an intra-depot stock movement, you can choose an option to display the Journal Entries program to review the accounting information for the transaction.

Recording a warehouse movement	While recording an intra-depot stock movement you might need to request a warehouse movement, depending on your particular movement. You can choose an option to access the Warehouse Transfers program.
Accessing the Tank Master	While recording an intra-depot stock movement you can choose an option to access the Tank Master Maintenance program to review or change tank information.
Accessing item information	While recording an intra-depot stock movement you can choose an option to access the Item Master Revisions program to review or change item information.
Reviewing item availability	While recording an intra-depot stock movement you might need to review item availability. You can choose an option to access the Item Availability program.
Searching for a location	If you do not know the tank ID, you can choose to search for it from the Loc/Tank field. The system returns the tank ID, as well as the lot number, if one exists.

Processing Options

See [General Stock Movements - Adjustments \(P415101\)](#).

Recording an Intra-Depot Stock Movement for a Kit

	From Bulk Stock Management (G4150), choose Bulk Stock Management From Bulk Stock Management (G41501), choose Intra-Depot Stock Movements From Intra-Depot Stock Movements (G415011), choose an option
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

You might need to record a stock movement that involves a kit item, such as when entering a simple blend transaction. When you enter a transaction that includes a kit item in the movement, you first copy a bill of materials to obtain the parent item information for the kit. Then, enter any detail information for the stock movement.

If you specify detail information prior to copying a bill of materials, the system deletes the information. You must enter it again.

See Also

- *Recording an Intra-Depot Stock Movement* for the processing options for this program

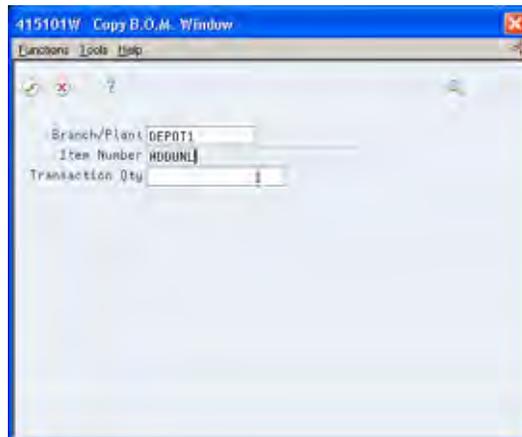
To record an intra-depot stock movement for a kit

On the selected stock movement form

1. Complete the following fields or leave them blank to accept the default values:
 - Branch/Plant

- Transaction Date
- Transaction Time
- Document Number
- Explanation
- General Ledger Date

2. Access Copy B.O.M. Window.



3. On Copy B.O.M. Window, complete one or more of the following fields:
- Branch/Plant
 - Item Number
 - Transaction Quantity
4. To complete the transaction for the kit item, follow the steps to record an intra-depot stock movement.

See *Recording an Intra-Depot Stock Movement*.

Recording a Gain or Loss on an Intra-Depot Stock Movement

	<p>From Bulk Stock Management (G4150), choose Bulk Stock Management</p> <p>From Bulk Stock Management (G41501), choose Intra-Depot Stock Movements</p> <p>From Intra-Depot Stock Movements (G415011), choose an option</p>
-------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

When moving product from one location, tank, or container to another, a change in volume can occur due to spillage, leakage, evaporation, temperature changes, and so on. You can account for these gains or losses when recording the “from” and “to” movements of the product.

You can specify gains or losses for the following stock movements:

- Tank to tank transfer
- Repack
- Decant

- Fill

Processing options control how gains or losses are recorded in the following ways:

- Set a processing option to specify a default gain/loss location
- Set a processing option to ensure that the From, To, and Gain/Loss quantities equal zero

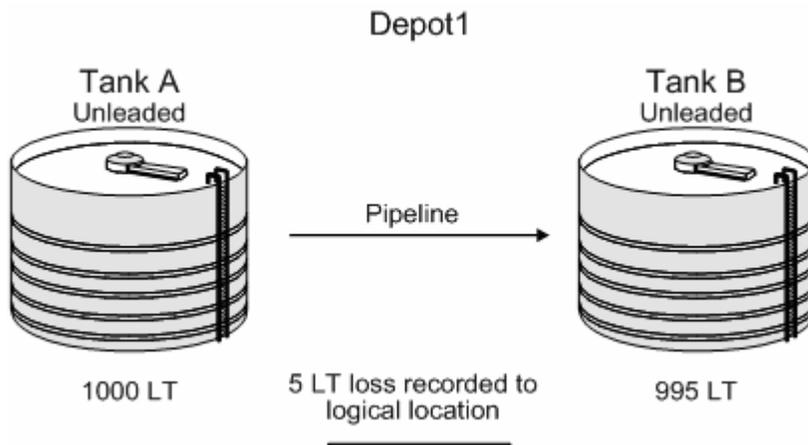
The system calculates gains and losses as follows:

$$\begin{array}{l} \text{The sum of all "to"} \\ \text{transactions converted} \\ \text{to a standard unit of} \\ \text{measure and temperature} \end{array} - \begin{array}{l} \text{The sum of all "from"} \\ \text{transactions converted} \\ \text{to a standard unit of} \\ \text{measure and temperature} \end{array} = \text{Gain or loss}$$

You record gains and losses to a logical location instead of a physical location to prevent them from adjusting actual inventory. Because no item/location record exists, searching by a location will not display the inventory for the location.

Example: Recording Loss

The following diagram illustrates 1000 liters (LT) transferred from Tank A to Tank B. After the transfer, Tank B reports receiving only 995 liters. To accurately account for the transfer, you record a 5-liter loss to the logical location.



You do not record a 5-liter loss to Tank A, because 1000 liters actually left Tank A. Likewise, you do not record a gain of 5 liters to Tank B, because 995 liters actually entered Tank B.

See Also

- *Setting Up Depot Locations (P4100)* for information on setting up a logical location
- *Recording an Intra-Depot Stock Movement* for the processing options for this program

To record a gain or loss on an intra-depot stock movement

On the selected stock movement form

F	Product	Loc/Tank	Rebilit Volume	Standard Volume	Q
F	REGULAR UNLEADED	TKREG1	99999-	LT 99999	LT
T	REGULAR UNLEADED	TKREG2	99889	LT 98832	LT

1. Follow the steps to record an intra-depot stock movement that includes both a “from” and a “to” transaction on two lines.

See *Recording an Intra-Depot Stock Movement*.

The system calculates the gain/loss quantity and displays it in the primary unit of measure.

2. Complete the following required fields for Gain/Loss:
 - Product
 - Location/Tank

Field	Explanation
Product	<p>A number that the system assigns to an item. It can be in short, long, or 3rd item number format.</p> <p><i>Form-specific information</i></p> <p>Identifies the product to be adjusted. If this is a stock movement for a bulk item, the system uses the product number from the Current Product field in Tank Master as the default value when you enter the transaction.</p> <p>The gain/loss product must be a bulk product. An entry in this field is required for repack, decant, or fill transactions, but not for tank to tank transfer.</p>

Field	Explanation
Loc/Tank	An 8-character field identifying the tank as defined on the Branch/Plant Constants form. <i>Form-specific information</i> Searching for a specific location/tank returns the tank ID plus the lot number, if one exists.

What You Should Know About

Converting products to a common unit of measure	The program converts all products within a transaction to the common unit of measure associated with the gain/loss bulk product. If the unit of measure conversion is not set up by item, the system uses the standard unit of measure conversions.
Requiring quantities to balance	You can set a processing option to require that the “from” quantity, the “to” quantity, and the gain/loss quantity balance based on the common unit of measure.

Processing Options

See [General Stock Movements - Tank to Tank \(P415101\)](#).

Calculate Volume from Dip Readings

Calculating Volume from Dip Readings



From Bulk Stock Management (G4150), choose **Bulk Stock Management**
From Bulk Stock Management (G41501), choose **Intra-Depot Stock Movements**
From Intra-Depot Stock Movements (G415011), choose an option

You use Dip Volume Calculator to calculate volume for stock movements when you have dip readings based on tank strappings information.

Typically, a dip reading is taken before and after a movement occurs. You enter these readings, and the program calculates the following:

- Ambient volume
- Standard volume
- PSAU volume
- Weight

It also calculates the difference between the before and after quantities. An after dip that is lower than the before dip is considered a discharge from the tank. The reverse is considered a receipt of product.

When you enter before and after dip readings, the program calculates the ambient volume for each reading from the tank strappings. The system takes into account the tank type and the dip type, and applies the floating roof displacement correction, if required. The dip calculations are stored in the Bulk Product Transaction table (F41511) when performed as part of a transaction.

For liquefied petroleum gas (LPG) products, the Dip Volume Calculator program performs the following:

- Corrects the liquid volume to 15°C using the LPG tables
- Calculates liquid mass (weight)
- Determines if inert gas is present (affects vapor density calculation)
- Derives the vapor density
- Calculates vapor mass (weight)
- Calculates vapor volume
- Calculates volume: total volume = liquid volume + vapor volume
- Calculates weight: total weight = liquid weight + vapor weight
- Calculates the liquid volume from the strapping tables

What You Should Know About

Accessing Dip Volume Calculator

Alternatively, you can access the Dip Volume Calculator program directly from the Bulk Stock Management menu or from Bulk Stock Receipts from the Purchase Order Processing menu while receiving products.

If you access Dip Volume Calculator directly from the Bulk Stock Management menu, the program serves as a calculation tool only. It does not store the values.

Accessing Discharge Meter Readings

If you access the Dip Volume Calculator from the Bulk Stock Management menu, you do not have the option to access Discharge Meter Readings.

Complete the following tasks to calculate volume from dip readings:

- [Calculating Volume for a Stock Movement](#)
- [Calculating Volume for a Simultaneous Movement](#)

Calculating Volume for a Stock Movement

To calculate volume for a stock movement, you enter the dip readings from your tank strappings table information. You must enter them in increments consistent with the strappings units set up on the tank strappings table (centimeters, feet/inches, fractions). The system will not convert them.

Sometimes you may not need to take tank strappings. Alternatively, you can enter the volume directly in the Other Volume field. The program will convert ambient volume to standard. When doing this, you must also enter the before and after dip readings as zero.

If the dip type is E for an electronic gauge reading, the gross dip readings you enter are considered volumes, not strappings. Therefore, the system does not make strappings conversions. It only makes the conversion to standard volume. The program uses the unit of measure from the default tank strappings. You can enter electronic gauge readings in ambient volume, standard volume, or weight.

If you are recording an electronic reading in weight, enter the weight in the Gross Dip field. The Gauging Method in the Tank Master must be specified as "W" (weight). The program considers the entry a weight, where the unit of measure is the weight unit of measure specified in the Item Master, and enters the appropriate amounts in the Bulk Item Ledger.

If you use an LPG item and vapor calculations are activated, the program processes the entry as if no vapor is involved. If you enter a total weight (liquid + vapor), the program cannot determine which part is liquid and which is vapor, so vapor calculations are invalid, regardless of whether vapor calculations is activated.

To calculate volume for a stock movement

On the selected bulk stock movement form

1. Choose the transaction for which you want to calculate volume.

2. Access Dip Volume Calculator.

The screenshot shows the Oracle JD Edwards World Dip Volume Calculator application. The window title is "415102 Dip Volume Calculator Branch/Pl". The interface includes a menu bar with "Tools" and "Help", and a toolbar with various icons. The main area is divided into several sections:

- Field Sensitive Help:** A list of help topics on the left side.
- Display Error Message:** A red text area for error messages.
- Display Functions:** A list of functions on the left side.
- Action Code:** A field with a dropdown menu.
- Tank ID:** A field with the value "TKREG1".
- Product:** A field with the value "REG".
- Air/Hydrometer Correction:** A field with a dropdown menu.
- Calculate Vapor:** A field with a dropdown menu.
- Branch/Plant:** A field with the value "DEPOT1".
- Doc Type/No:** A field with the value "ST 99013".
- Line Number:** A field with the value "1.00".
- Storage Tank for Leaded Fuel:** A field with the value "Leaded Fuel".
- Wet Dip Reading:** A field with the value "Manual Dip".
- BEFORE DIP:** A section for recording measurements before dipping. It includes fields for Gross Dip (300.00), Water Dip (20.00), Temperature (20.00), Density (700.0), and Den/Temp (20.00). It also includes fields for Other Volume (4000), LPG Vap Pres, Vapor Temp, Vapor Vol, and Vapor Wgt.
- AFTER DIP:** A section for recording measurements after dipping. It includes fields for Gross Dip (295.00), Water Dip (20.00), Temperature (20.00), Density (700.0), and Den/Temp (20.00). It also includes fields for Other Volume (4000), LPG Vap Pres, Vapor Temp, Vapor Vol, and Vapor Wgt.
- NET CHANGE TO VOLUME AND WEIGHT:** A section for calculating the net change. It includes fields for Ambient Result, Vol at Std Temp, Weight Result, and PSAU Result.
- Status Bar:** A bar at the bottom with keyboard shortcuts: F9=Exit w/o Update, F5=Update w/Return Qty, F8=Meter Info, F24=More Keys.

3. On Dip Volume Calculator, complete the following Before field:

- Gross Dip

4. Complete the following Before fields or leave them blank and use the default values:

- Water Dip
- Temperature
- Temperature Type
- Density
- Density Type
- Density Temperature
- Density Temperature Type
- Other Volume

If the following field displays a Y, the item is an LPG product:

- Calculate Vapor

5. If the item is an LPG product, complete the following fields:

- LPG Vapor Pressure
- Vapor Temperature
- Vapor Temperature Type
- Slip Tube Reading Type
- Vapor Weight

6. Complete the following After fields or leave them blank and use the default values:

- Water Dip
- Temperature
- Density
- Density Temperature
- Other Volume

The system performs the volume calculations and places the values in the following fields:

- Ambient Result
- Volume at Standard Temperature
- Weight Result
- PSAU Quantity

When you return to the bulk stock movement form, the system displays the calculations in the appropriate fields.

Field	Explanation
Gross Dip	<p>This number represents the total dip reading of a tank. (Net volume = Gross dip volume - water dip volume + Other volumes.)</p> <p>You can enter a number for a single dip or multiple dip reading. Enter dip readings in increments consistent with the strapping units on the tank strappings table (for example, centimeters or feet/inches/fractions).</p> <p>For U.S. increments, Branch/Plant Constants controls the delimiter that indicates the separator between the units of measure (for example, between feet, inches, and fractions). Therefore, if you used a “/” as the delimiter, enter the following:</p> <ul style="list-style-type: none"> ▪ 15 feet 10 1/2 inches: Enter 15/10/8 ▪ 15 feet: Enter 15// ▪ 6 feet 4 13/16 inches: Enter 6/4/13 ▪ 12 feet and 5/16 inches: Enter 12//5 <p>Fractions are shown in sixteenths of an inch.</p>
Water Dip	<p>This number represents the total dip reading of water in the tank.</p> <p>(Net volume = gross dip volume - water dip volume + other volumes.)</p> <p>This can be a single dip or a multiple dip reading.</p>
Temperature	The temperature of the product.
Density	Identifies your company’s standard for density. You can also use this field for pack size and weight information.

Field	Explanation
Density Temperature	Indicates the temperature at which the density was measured. The system uses the density temperature type from Branch/Plant Constants - Page 3.
Other Volume	<p>This number represents any volumes that will affect the net volume calculation. The default value equals the pipeline volume plus the discharge volume. The pipeline and discharge volumes are from Additional Tank Information data. (Net volume = gross dip volume - water dip volume + other volumes.)</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>Pipeline plus discharge volume is added to the volume entered or retrieved from the strapping table.</p> <p>If you enter a weight, the value is converted to a weight unit of measure using temperature and density information, and then added to the quantity entered.</p>
Calculate Vapor	<p>Indicates whether the product requires a calculation of the vapor volume. Valid values are:</p> <ul style="list-style-type: none"> ▪ Y or 1 (Product requires the calculation) ▪ N or 0 (Product does not require the calculation)
Vapor Pressure	This is the observed LPG vapor pressure. The system compares this value to the equilibrium vapor pressure to check for inert gases. The observed pressure of the LPG vapor is recorded as part of the tank dip, and is used in the calculation of the liquid equivalent volume of the vapor.
Slip Tube Reading Type	<p>This field is used when recording a dip reading for an LPG Slip Tube type tank. This field denotes whether this is a long or short slip tube reading. Valid values are:</p> <p>L Long</p> <p>S Short</p> <p>If you leave this field blank, the system uses S.</p>
Ambient Result	<p>The volume as measured for density and temperature prior to conversion. You can enter the ambient quantity or let the system automatically calculate it.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>The value in this field is derived from one of the following:</p> <ul style="list-style-type: none"> ▪ Any value recorded in the Other Volume field. ▪ Any pipeline value or discharge volume recorded on the Additional Tank Information form is added to the net result of the Before and After volume calculated. The result is shown in the Ambient Result field.

Field	Explanation
Vol at Std Temp	<p>The volume after it has been converted to a standard base. Conversions are made according to published standard routines for density/gravity and for temperature.</p> <p><i>Form-specific information</i></p> <p>Normally, you leave the Standard Volume field blank and allow the system to calculate it. However, if you enter the volume and unit of measure, the system accepts it as valid and performs no calculation.</p>
Weight Result	The weight of the product at standard temperature. The system calculates the weight by multiplying the volume by the density and applying an air correction, if necessary (all at the base temperature).
PSAU Result	The quantity as converted to the primary stock accounting unit of measure identified for this item (product). This primary stock accounting unit can be either volume or weight.

What You Should Know About

Entering multiple dip readings	To enter multiple dip readings, access the Reading Calculations window from the Gross Dip or Water Dip fields. You can enter up to three dip readings to calculate an average.
Moving large quantities	If you are moving in a large quantity of product, you can enter the Before reading and record the After reading at a later time.
Reviewing strappings information	While using the Dip Volume Calculator, you might need to review the strappings information for the tank. You can choose an option to access the Tank Strapping Table program.
Reviewing Default Tank Information	While using the Dip Volume Calculator, you might need to review default information for the tank. You can choose an option to access the Default Tank Information program.

Calculating Volume for a Simultaneous Movement

You can calculate volume for a simultaneous movement, such as simultaneously receiving and withdrawing product from the same tank, to speed operations.

When you calculate volume from dip readings, you can also record the meter readings from a withdrawal of product. When you enter these readings, the system adds the quantity you withdraw back into the quantity calculated from the dip readings. A message displays to indicate that there was a simultaneous withdrawal.

This function is not available if you choose Dip Volume Calculator from the Bulk Stock Management menu.

You must record any gain/loss associated with this type of transaction to the outturn gain/loss.

See Also

- *Recording a Gain or Loss on a Stock Movement (P415101)*

To calculate volume for a simultaneous movement

On the selected bulk stock movement form

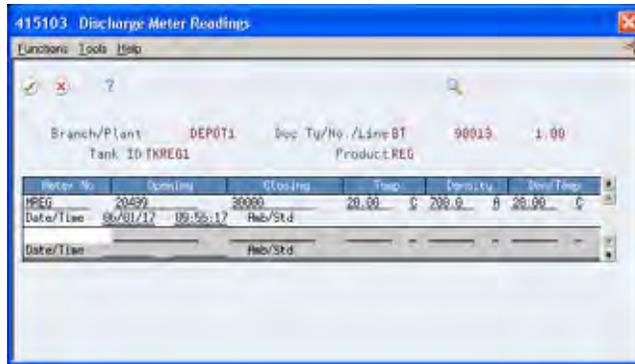
1. Choose the transaction for which you want to calculate volume.
2. Access Dip Volume Calculator.
3. On Dip Volume Calculator, access Discharge Meter Readings.

Meter No.	Opening	Closing	Temp	Density	Den/Temp
REG	20499	30000	20.00	C 700.0	A 20.00

4. On Discharge Meter Readings, complete the following fields:

- Meter Number
- Opening
- Closing
- Temperature
- Temperature Type
- Density
- Density Type
- Density Temperature
- Density Temperature Type

The date, time, and ambient or standard mode appear in the detail area.



5. Save your entries and return to the intra-depot stock movement form.

Field	Explanation
Opening	The beginning (opening) meter reading before the product flows through a pipeline. In order to calculate the ambient volume, an after (closing) meter reading is required.
Closing Reading	The closing reading of the meter at the date and time specified by the user. This indicates the quantity of product that has flowed through the meter when the closing readings are taken. In order to calculate the ambient volume, an after (closing) meter reading is required.

Calculate Volume from Weighbridge Information

Calculating Volume from Weighbridge Information



From Bulk Stock Management (G4150), choose Bulk Stock Management
From Bulk Stock Management (G41501), choose Intra-Depot Stock Movements
From Intra-Depot Stock Movements (G415011), choose an option

You use the Weighbridge Information program to calculate volume for stock movements when you have weight readings from a weighbridge. This program calculates the weight or volume of the product by subtracting the weight of the vehicle. The program stores Weighbridge calculations in the Bulk Product Transaction table (F41511) when performed as part of a stock movement.

The system calculates the following:

- Weight (by subtracting the weight before loading from the weight after loading)
- Ambient volume
- Standard volume
- PSAU quantity, either weight or volume

The Weighbridge Information program has the following requirements:

- The Before Loading weight cannot be below the empty weight of the vehicle.
- The After Loading weight cannot exceed the weight capacity or maximum gross weight of the vehicle.
- The volume calculated cannot exceed the volume capacity of the vehicle.

To calculate volume from weighbridge information

On the selected bulk stock movement form

1. Choose the transaction for which you want to calculate volume.
2. Choose Weighbridge Information.

415104 Weighbridge Information Branch/

Look: Help

ORACLE JD Edwards World

URL Open PDF Document Email World Resources Support

Field Sensitive Help 415104 Weighbridge Information Branch/Plant DEPT1
 Display Error Message Doc Type/No 01 90014
 Display Functions Line Number 1.00
 Exit Program
 Return Quantities
 Vehicle Master
 Clear Screen

Action Code F1
 Item Number UNL Unleaded Fuel
 Tank ID TRREG1 Storage Tank for Leaded F
 Vehicle Id

Weight Empty Maximum Gross Weight
 Weight Capacity Bulk Volume Capacity

Weight		Temp.	Density	Den/Temp.
Before Loading	After Loading			
5912	11796	20.00	145.0	20.00
	KG	KG	C	C

Weight of Product
 Primary Stock UOM (PSAU)
 Product Volume (Ambient)
 Product Volume (Standard)
 Volume Correction Factor

F5=Update w/Return Qty F6=Vehicle Master F24=More Keys

3. On Weighbridge Information, complete the following fields:
 - Vehicle ID
 - Weight Before Loading
 - Unit of Measure
 - Weight After Loading
 - Unit of Measure
4. Complete the following fields, or leave them blank to use the default values from the Default Tank Information table:
 - Temperature
 - Temperature Type
 - Density
 - Density Type
 - Density Temperature
 - Density Temperature Type

The system calculates the volume and places the quantities in the following fields:

- Weight of Product
- Primary Stock UOM (PSAU)
- Product Volume (Ambient)
- Product Volume (Standard)
- Volume Correction Factor

When you return to the stock movement form, the system displays the calculations in the appropriate fields.

Field	Explanation
Weight of Product	The weight of the product at standard temperature. The system calculates the weight by multiplying the volume by the density and applying an air correction, if necessary (all at the base temperature).
Primary Stock UOM (PSAU)	The quantity as converted to the primary stock accounting unit of measure identified for this item (product). This primary stock accounting unit can be either volume or weight.
Volume Correction Factor	A calculated number to convert ambient volume to volume at standard density and temperature. This value identifies the primary stock accounting unit of measure used by the system.

What You Should Know About

Accessing Weighbridge Information

You can access this program directly from the Bulk Stock Management menu, from any stock movements form, or from Bulk Stock Receipts from the Purchase Order Processing menu while receiving products.

If you access Weighbridge Information directly from the Bulk Stock Management menu, the program serves as a calculation tool only. It does not store the values.

Reviewing vehicle information

While calculating volume from weighbridge information, you might need to review information for the vehicle. You can choose an option to access the Vehicle Master program.

3 Bulk Product Receipts

Overview to Bulk Product Receipts

Objectives

- To record receipt of bulk inventory
- To perform a four-point analysis in order to calculate gain or loss for received products

About Bulk Product Receipts

You record the receipt of bulk products requested on a purchase order as they arrive at the depot. You can confirm the receipt of the products requested on the purchase order, record the volumes received, and make adjustments to correct variances.

You can also calculate any gains or losses that might have occurred during transportation due to spillage, theft, faulty meters, and so on. To do so, you perform a four-point analysis. You perform a four-point analysis primarily for long voyages to determine the product lost in transit, but you can record the data for any movement.

If you, as purchaser, take ownership for the product when it is loaded onto a vehicle at a supplier's depot, you can track the quantity loaded onto the vehicle and record it as a liability. Then, you can calculate and record any gain or loss that might have occurred at the time of delivery at your depot.

Complete the following tasks to receive goods:

- Record bulk product receipts
- Calculate gain or loss for received products

See Also

- *Entering Receipts in the Procurement Guide* for information on purchase orders and receiving inventory

Record Bulk Product Receipts

Recording Bulk Product Receipts



From Procurement (G43), choose Stock Based
From Stock Based (G43A), choose Purchase Order Processing
From Purchase Order Processing (G43A11), choose Enter Receipts by PO

You record the receipt of bulk products requested on a purchase order as they arrive at the depot. You can confirm the receipt of the products or make adjustments to correct variances. The system updates the Item Ledger table (F4111), the Purchase Order Receiver table (F43121), and the Bulk Product Transactions table (F41511).

When you record bulk product receipts, you can display all purchase order lines that have an open quantity or amount to be received and record a receipt of a bulk product. An open quantity is the purchase order quantity minus the previous quantities received.

When you receive a bulk item, the Bulk Product Receipts window opens, allowing you to record temperature and density information and calculate standard volume and weight. A bulk item is defined by the Bulk/Packed field on the Item Master form.

If receipt routing is set up for the product and activated in the processing options, when you enter a receipt the system checks for routing and sends the product to the next step in the routing process. The system records the receipts when first placed into routing and then again when moved to on-hand stock.

You can set a processing option to record differences in receiving as a temperature gain or loss, to recalculate the unit cost, or to receive in standard quantities items purchased in standard quantities.

You might want to receive the entire amount ordered and not perform a temperature/density conversion from ambient to standard. If you record a gain or loss, the amount is calculated as follows:

$$[(\text{Standard Quantity} - \text{Ambient Quantity}) \times \text{Unit Cost}] - \text{Temperature Gain/Loss}$$

This amount is debited to the temperature gain/loss Automatic Accounting Instruction account, with the offset as a credit to Inventory. Quantities are stored in the Gain/Loss table (F4312) as a temperature gain or loss.

If you choose to recalculate the unit cost for bulk products that require a temperature conversion, the unit cost is recalculated as follows:

$$(\text{Extended Cost}) / (\text{Standard Quantity})$$

The unit cost is recalculated in receiving and there is no variance in voucher match. The difference is recorded to the Item Ledger (F4111) table and the Bulk Product Transactions (F41511) table.

If you choose to receive in standard items purchased in standard, the product is received as if it were a packaged product. There is no gain or loss and no adjustment to unit cost.

Before You Begin

- Verify that you have purchase orders entered in the system

See Also

- *Creating Receipt Routes in the Procurement Guide*

To record bulk product receipts

On Enter Receipts by Purchase Order

Item/Account	Quantity	UOM	Unit Cost	Extended Cost
FRESH	70000	LT	.2500	17,500.00
UNL	100000	LT	.2000	20,000.00

1. Complete the following field:

- Order Number

The system displays all items with open quantities for this purchase order.

2. Choose the Receive option for the purchase order line for which you want to record received products.

The Bulk Product Receipts window appears.

3. On Bulk Product Receipts, complete one or more of the following fields or leave the default values:
- Location/Tank
 - Owner/Duty
 - Ambient Quantity
 - Temperature
 - Temperature Type
 - Density
 - Density Type
 - Density Temperature
 - Density Temperature Type
4. Complete the following optional fields:
- Reason
 - Lot
 - Contract
 - Lot Expiration
 - Agreement Number
 - Agreement Supplement
 - Lot Status

Field	Explanation
Loc/Tank	An 8-character field identifying the tank as defined on the Branch/Plant Constants form. <i>Form-specific information</i> Searching for a specific location/tank returns the tank ID plus the lot number, if one exists.

Field	Explanation
Owner/Duty	<p>A number that identifies an entry in the Address Book system. Use this number to identify employees, applicants, participants, customers, suppliers, tenants, and any other Address Book members.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>Use this field only for tanks with commingled stocks or with duty-paid and unpaid product in the same tank. If the tank you are receiving product into has been set up with commingled stock, this field is required. If the Stock Commingled field on the Additional Tank Information form contains a Y, B, or D, this field is required.</p>

What You Should Know About

Adding receipts by item	You can choose Enter Receipts by Item from the ECS Procurement menu to add receipts by item number. The system displays all purchase orders for a specific item number. Enter the item number and follow the steps described for adding receipts by purchase order.
Specifying entry modes	A processing option allows you to specify one of three modes of entry on Enter Receipts by Purchase Order. You can toggle among the different modes.
Calculating quantity	You can access Dip Volume Calculator or Weighbridge Information from Bulk Product Receipts if you need to calculate the volumes to enter.
Calculating gain or loss	You can access Four-Point Analysis Maintenance from Bulk Product Receipts if you need to calculate gains or losses.
Receiving commingled stock	If the primary location contains commingled stock, complete the Owner/Duty field on the Bulk Product Receipts window to identify the owner of the product.
Searching for a location	If you do not know the tank ID, you can search for it from the Loc/Tank field of the Bulk Product Receipts window. The system returns the tank ID, as well as the lot number, if one exists.

See Also

- *Calculating Volume from Dip Readings (P415102) and Calculating Volume from Weighbridge Information (P415104)* for information on calculating volume
- *Calculating Gain or Loss for Received Products (P415109)* for performing a four-point analysis

Processing Options

See [Enter Receipts \(P4312\)](#).

Calculate Gain or Loss for Received Products

Calculating Gain or Loss for Received Products



From Bulk Stock Management (G4150), choose **Bulk Stock Management**
From Bulk Stock Management (G41501), choose **Four-Point Analysis Maintenance**

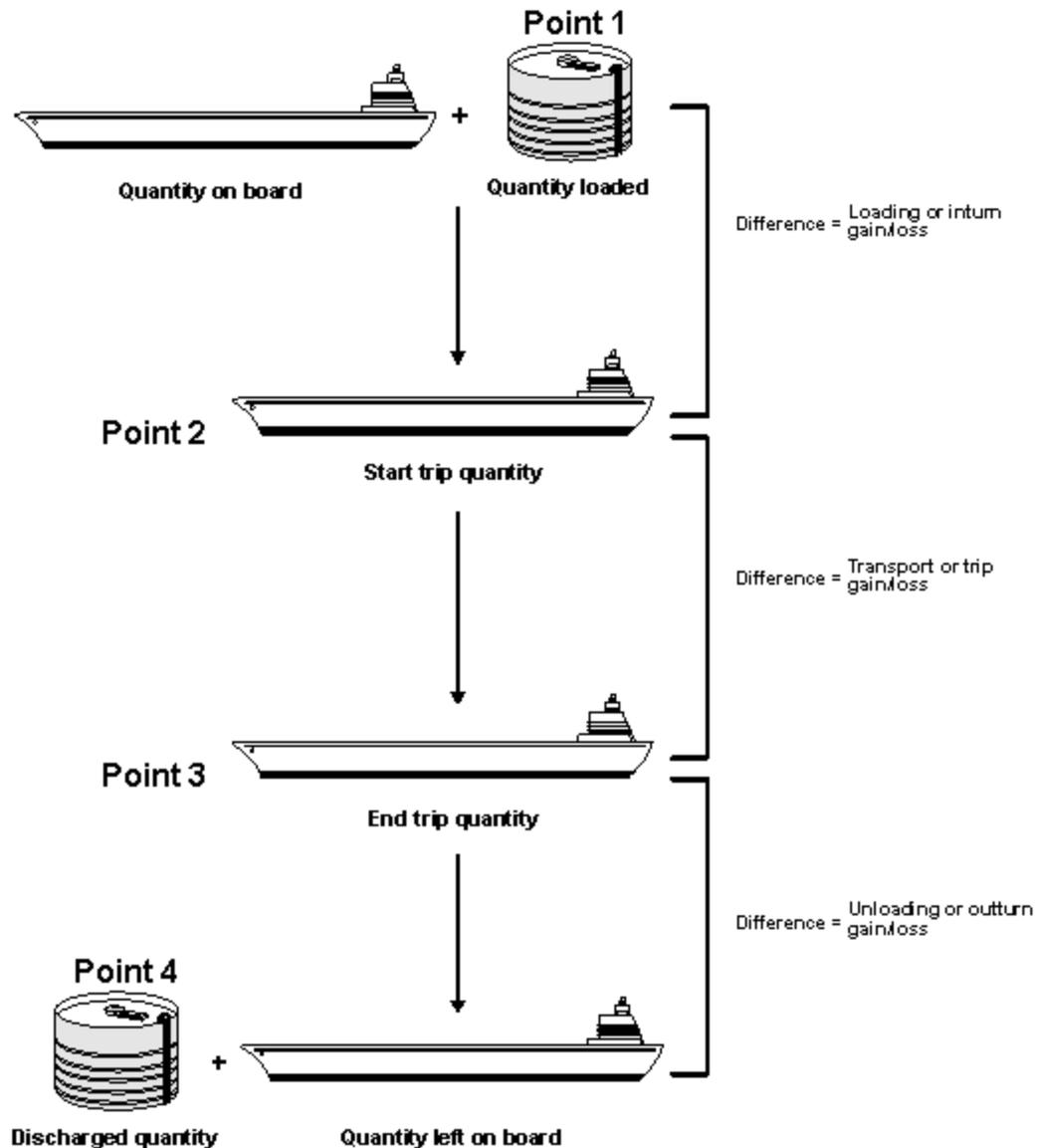
Use Four-Point Analysis Maintenance when you record received products to calculate any gains or losses that might have occurred during shipment. “Four points” refers to the opening and closing readings at a supplying location and the opening and closing readings at a receiving location. “Analysis” refers to the variance between the two results (that is, the gain or loss).

You can choose to perform a four-point analysis for each line item on a purchase order. You can also perform a four-point analysis on partial receipts. The program creates a four-point record for each receipt.

The output for Four-Point Analysis Maintenance is informational only. It does not update the gain/loss table or the general ledger. You cannot retrieve this data for other programs. If you need the output elsewhere, for example, to enter a gain or loss manually, print the form and enter the data in the required program.

If you receive an item that is set up for receipt routing, you can set a processing option in receipts entry to call Four-Point Analysis Maintenance when product is routed to the “payment eligible” and “on-hand” steps.

The following diagram illustrates a four-point analysis.



During four-point analysis the system does the following:

- Adds the opening on-board quantity to the quantity loaded (Point 1) and compares the total to the start trip quantity (Point 2). Any difference represents the loading (inturn) gain or loss. The system calculates a percentage based on the sum of opening on-board plus loaded quantities.
- Compares the start trip quantity (Point 2) to the end trip quantity (Point 3). Any difference represents the transport (trip) gain or loss. The system calculates a percentage based on the opening on-board quantity.
- Compares the end trip quantity (Point 3) with the sum of the discharged (Point 4) and left-on-board quantities. Any difference represents the unloading (outturn) gain or loss. The system calculates a percentage based on the end trip quantity.

- Calculates the total gain or loss, both in volume and percent.

See Also

- *Purging Four-Point Analysis Records (P41509)*
- *Working with Items in Receipt Routing in the Procurement Guide*

To calculate gain or loss for received products

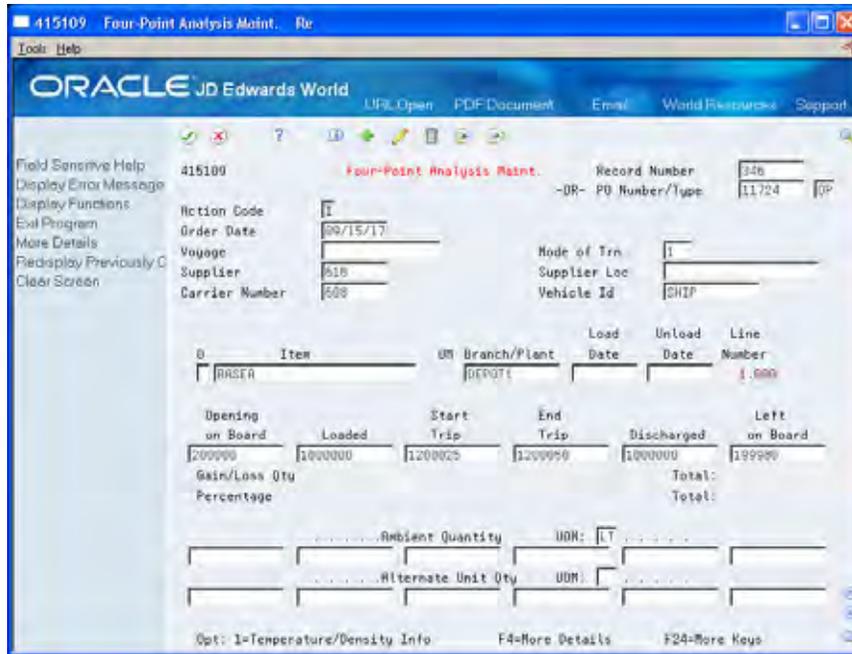
On Four-Point Analysis Maintenance

Item	Branch/Plant	Load Date	Unload Date	Line Number
BASEA	DEPOTE			1,000
				2,000
				3,000
				4,000
				5,000
				6,000
				7,000
				8,000
				9,000
				10,000
				11,000
				12,000

1. Complete the following fields or accept the default values:

- Record Number
- PO Number
- Mode of Transport
- Supplier
- Carrier Number
- Vehicle Identification
- Item
- Branch/Plant
- Load Date
- Unload Date

2. Access the detail area.



3. Enter the ambient quantities in the following required fields:
 - Loaded
 - Discharged
4. Complete one or more of the following optional fields:
 - Opening on Board
 - Start Trip
 - End Trip
 - Left on Board
 - Alternate Quantity Unit of Measure
5. Choose the item to calculate the gains or losses.
6. Access Four-Point Temperature/Density.



7. On Four-Point Temperature/Density, complete the following fields for each corresponding field that you completed in the detail area:
 - Temperature

- Temperature Type
 - Density
 - Density Type
 - Density Temperature
 - Density Temperature Type
8. Return to Four-Point Analysis Maintenance.
9. Accept the entries.
- The system adds the record.

Field	Explanation
Loaded	The amount of product loaded from the tank to the vessel.
Discharged	The quantity discharged (unloaded) from the vessel.
Opening on Board	The standard quantity of product already on the vessel before loading additional product.
Start Trip	The quantity at standard temperature at the beginning of the trip. This is normally the sum of the opening on-board quantity and the loaded quantity. If there is a difference, this would be reflected as a loading or inturn gain or loss.
End Trip	The quantity at the end of the trip or voyage. This quantity is compared to the quantity at the start of the trip, and any difference is reflected as a Transport (Trip) gain or loss. This End Trip quantity is also compared to the sum of the discharged quantity and the left-on-board quantity. Any difference is an unloading (outturn) gain or loss.
Left on Board	The quantity (if any) left on the vehicle after the product is discharged (unloaded).
Alternate Unit Qty	This specifies quantities that are in an alternate unit of measure.
	<i>Form-specific information</i>
	If you leave this field blank, the system calculates the quantity based on the standard quantity.

What You Should Know About

Accessing Four-Point Analysis Maintenance

Alternatively, you can access Four-Point Analysis Maintenance from the Bulk Product Receipts window while recording receipts.

You can set a processing option to automatically call Four-Point Analysis Maintenance from the Routing Movements program when product moves into the payment eligible step, then again into on-hand.

When called from the payment eligible step, the program completes the date and quantity loaded. The end trip, unload, and left on board points are protected from input.

When called from the on-hand step, the program completes the unload date and unload quantity. The beginning on board, loaded, and start trip points are protected from input.

Recording standard quantities

You can enter standard quantities if you already have them. If you enter standard quantities, you do not need to access the Four-Point Temperature/Density window to convert ambient quantities to standard quantities.

Calculating volume for Four-Point Analysis Maintenance

You can use Dip Volume Calculator to enter the opening and closing dip readings of any supplying or receiving point and calculate volumes. You can then print the dip calculations, return to the Four-Point Analysis Maintenance form, and enter the quantities in the appropriate fields.

Protecting records from revisions

You can use the Protect option to secure records from being changed.

Reversing a receipt

If you reverse a receipt entry for a bulk product, the system calls the Four-Point Analysis Server and also reverse the four-point analysis record.

Recording a disposition

If you receive a product that has been set up for receipt routing, you can record a product disposition, such as product that was damaged or lost in shipment. Recording a disposition for products defined as payable = Y, writes a physical gain or loss record to the Bulk Item Ledger (F41512) table.

4 Reconciliations

Overview to Reconciliations

Objectives

- To process throughput reconciliations
- To record closing meter readings in order to calculate throughput
- To print the Throughput Reconciliations report
- To print the Gain/Loss Analysis Report
- To review gains and losses
- To process operational reconciliations
- To record tank dip readings in order to calculate tank volume
- To print the Operational Reconciliation reports
- To review operational reconciliation history
- To review or change a reconciliation status

About Reconciliations

As part of the management of bulk stock, you must reconcile confirmed sales figures for a given period. To do so, you compare the transactions and inventory levels recorded in the system to the actual inventory levels in the depot. During the reconciliation process, the system identifies any discrepancies. A gain might be due to transactions not being entered (lost invoices). A loss might be due to theft, leakage, and/or faulty meters.

The system enables you to process two types of reconciliations:

- Throughput
- Operational

A processing option allows reconciliation of the document types for load-confirmed sales, non-metered outgoings, and other metered outgoings.

Complete the following tasks to perform reconciliations:

- Process throughput reconciliations (optional)
- Process operational reconciliations
- Work with reconciliations information

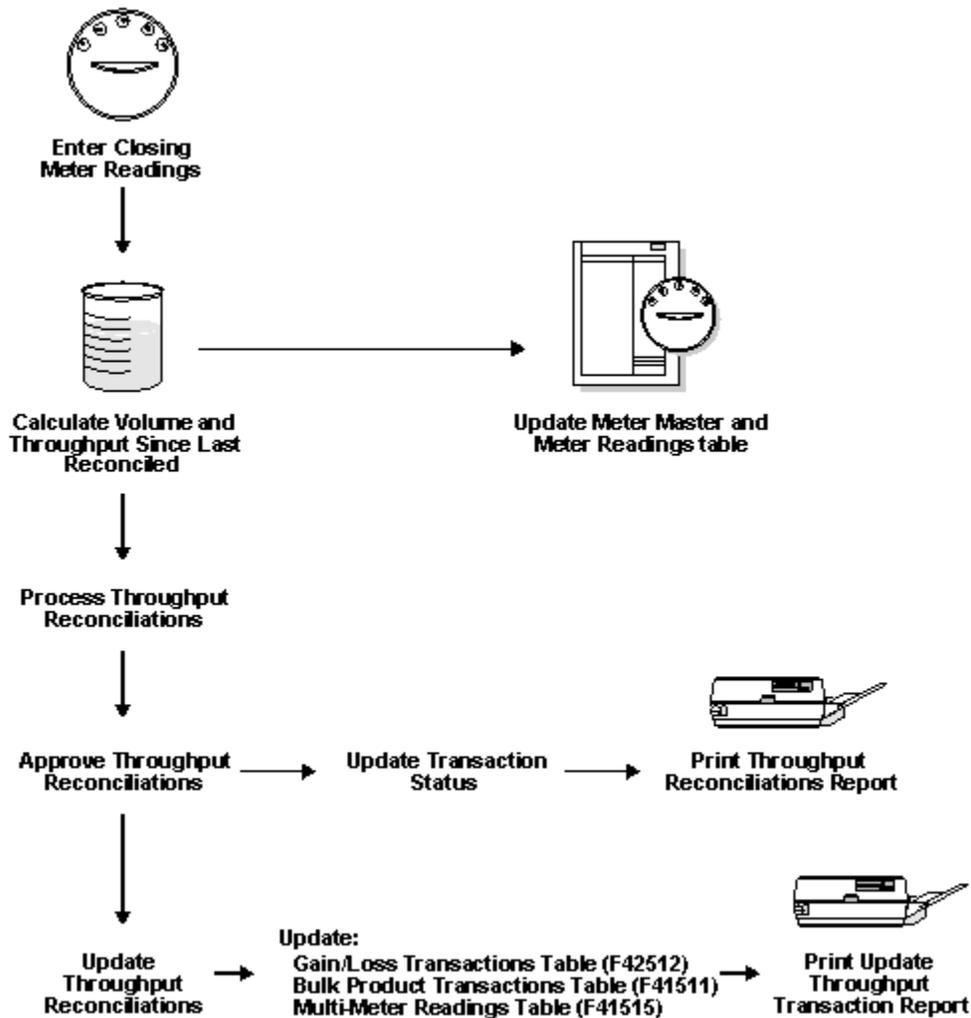
What Are Throughput Reconciliations?

Throughput reconciliation compares confirmed sales figures and other metered outgoing transactions for a given period with the metered throughput at the point of reconciliation. The comparison identifies discrepancies due to transactions not being entered, theft, leakage, and/or faulty meters.

Throughput reconciliation is optional. However, if you perform throughput reconciliation up through the time period you begin operational reconciliation, the operational reconciliation process will be more accurate.

Throughput reconciliation compares the transactions entered in the system to the throughput meter readings. Throughput reconciliation does not update inventory and the general ledger. Upon your review and approval, the program updates the reconciliation status and the Gain/Loss Transactions table (F42512).

The following illustrates throughput reconciliation.



What Are Operational Reconciliations?

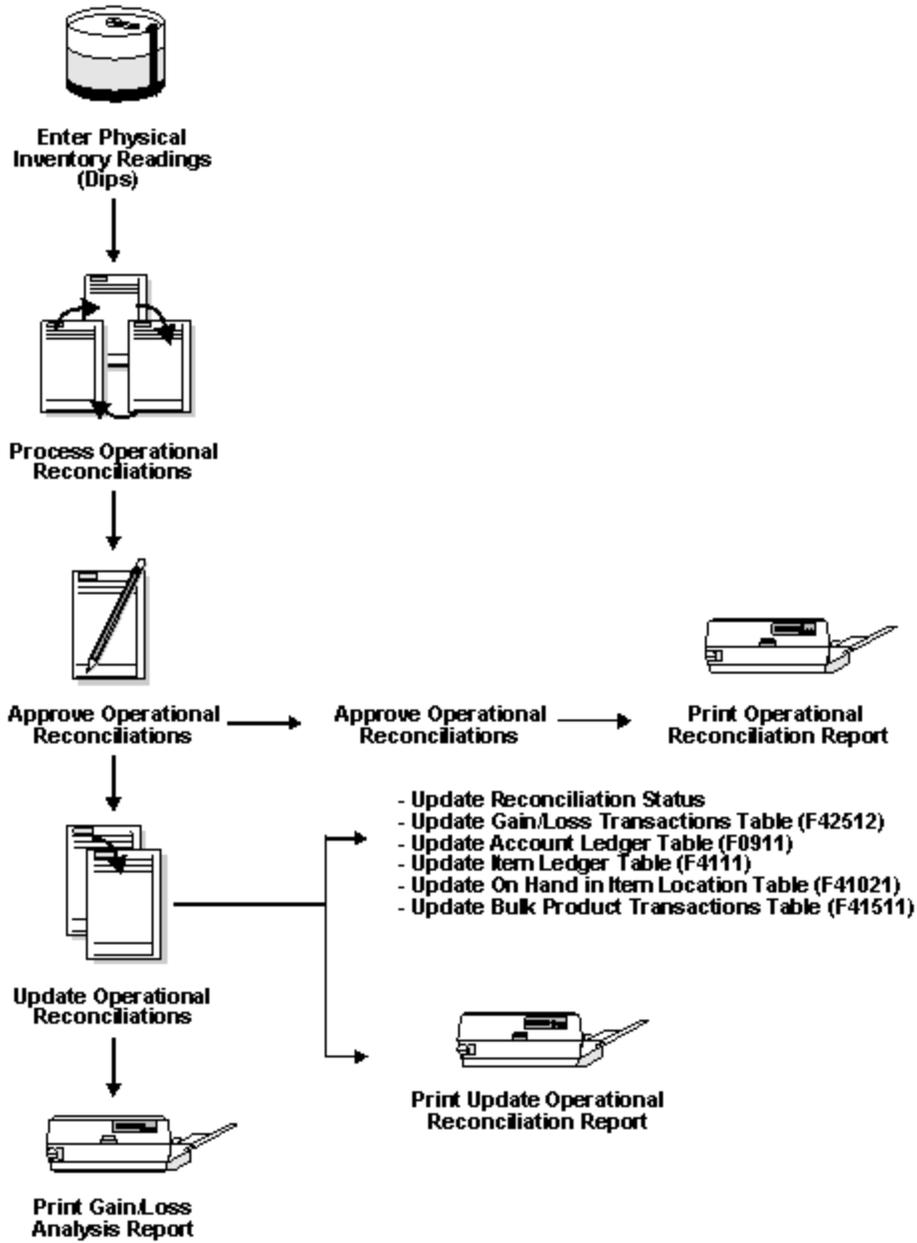
Operational reconciliation performs the actual reconciliation process to update inventory and the general ledger. Using all inbound and outbound transactions since the previous reconciliation, the system calculates the amount that should be in physical inventory and compares it to the actual amount in the tanks (from the final physical tank dip). In other words, it measures and compares the physical inventory levels with the book inventory levels, so differences can be reconciled and operational gains or losses recorded. It then updates inventory to reflect the current physical stock levels. Most companies perform operational reconciliations daily. Some perform them monthly.

During operational reconciliation, the system includes throughput gains and losses with operational gains and losses to update the general ledger.

Operational reconciliation updates the following tables:

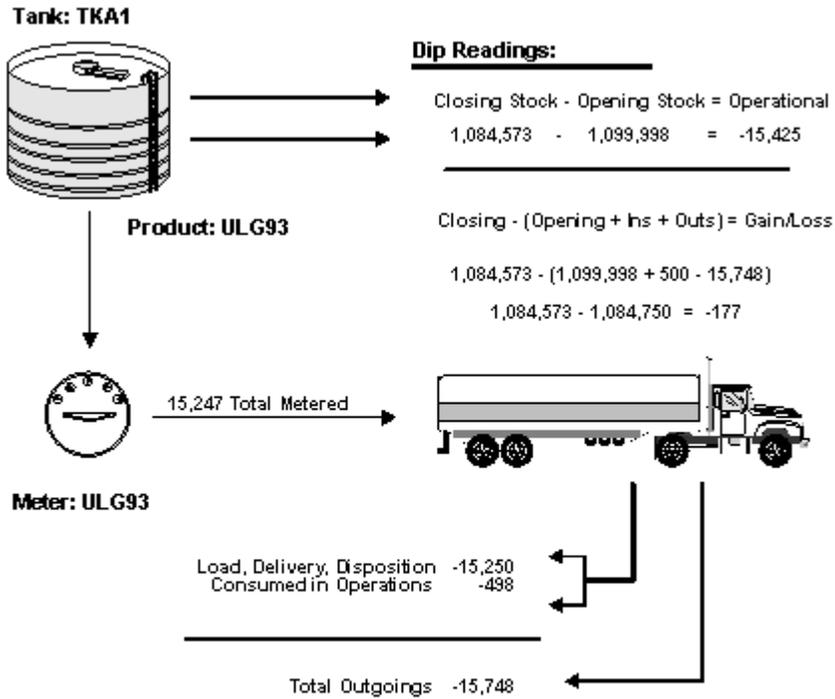
- Gain/Loss Transactions (F42512)
- Account Ledger (F0911)
- Item Location (F41021)
- Item Ledger (F4111)
- Bulk Product Transactions (F41511)

The following illustrates operational reconciliation.



How are reconciliations calculated?

The following illustrates the reconciliation process for bulk products. In the example, quantities (in liters) are shown to help you understand the process.



Throughput Reconciliation

Total Outgoings - Total Metered = Gain/Loss			
15,748	-	15,750	= +2

Process Throughput Reconciliations

Processing Throughput Reconciliations

You process throughput reconciliations to reconcile load-confirmed sales transactions and other metered transactions for a given period with the metered throughput. Throughput reconciliations is basically informational, to verify that all outgoing movements through meters have been recorded.

Complete the following tasks:

- [Recording Closing Meter Readings](#)
- [Updating Throughput Transaction Status](#)
- [Updating Throughput Reconciliations](#)

Before You Begin

- Set up the user defined code (UDC) tables for throughput reconciliation. See *About Setting Up User Defined Codes for Bulk Stock*.

Recording Closing Meter Readings



From Bulk Stock Management (G4150), choose Bulk Stock Reconciliations From Bulk Stock Reconciliations (G41502), choose Multi-Meter Readings

Use Multi-Meter Readings to record the most current meter readings in order to determine the amount of product that has passed through a meter. This allows you to update the throughput volume since previously reconciled.

You can enter readings in volume or weight. When you enter a reading, the program retrieves the current tank information and performs volume to weight conversions. The converted quantities are stored in the Meter Readings table (F41515) and used later for throughput reconciliations.

You update metered throughput by entering closing meter readings. The system multiplies meter units entered by the number of units per meter unit in the Meter Master (F41506). For example, the closing reading is 500 and the meter units are 2 liters/unit, then the throughput is 1,000.

Before You Begin

- Verify that the status code for transactions that have been throughput reconciled is specified in the processing options

To record closing meter readings

On Multi-Meter Readings

Meter P Number	Closing Reading	Reading Date	Reading Time	Throughput Calculated	Rec Meter V/N Status
UHL-REC-1					A
UHL-REC-2					A
UHL-REC-3					A

1. To locate an item, complete the following fields:

- Branch/Plant
- Item Number

The system displays the following fields:

- Throughput Calculated
- Reconciled
- Meter Status
- Total All Meters

2. Complete the following field:

- Closing Reading

3. If the meter reading is for a date and time other than the current, complete the following fields:

- Reading Date
- Reading Time

The system calculates the throughput.

4. Accept the record or correct it.

Field	Explanation
Throughput Calculated	<p>The calculated volume that has passed through the meter since the last meter reading.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>This amount is added to the amount in the Total Throughput Since Last Calibration field on the Meter Master Maintenance (P415006) form.</p>
Reconciled (Y/N)	<p>Identifies whether the reading has been reconciled. Valid values are:</p> <p>Y The record has been fully reconciled.</p> <p>N The record has not been reconciled.</p> <p>I In process, the record has been throughput reconciled.</p> <p>P In process, the tank has an error condition or the reconciliation ended abnormally.</p>
Meter Status	<p>Indicates whether the meter is active (A) or inactive (I). A meter must have an active status for reconciliation. You cannot enter a reading for an inactive meter.</p>
Closing Reading	<p>The closing reading of the meter at the date and time specified by the user. This indicates the quantity of product that has flowed through the meter when the closing readings are taken. In order to calculate the ambient volume, an after (closing) meter reading is required.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>The entry can be volume or weight. The program retrieves the current tank information and performs the appropriate conversions.</p>

What You Should Know About

Recording initial meter readings

If no previous readings exist for a particular meter, the system updates the meter status with an "I" for inactive. It does not calculate throughput for the initial reading. You must enter the initial reading as the closing reading. The system sets the previous reading to equal the closing reading and changes the Reconciliation Yes/No status to Y.

You can enter transactions for a tank before an initial meter reading. Be sure to enter an initial reading date and reading time that is prior to the transaction dates. If the initial meter reading is not prior to the transaction dates, the transactions are treated as retroactive (that is, before the last reconciliation) and are not included in the current reconciliation.

Locating previous meter readings	To locate previous meter readings for a product in order to review or make a change, enter the date for the readings you need to locate in the Skip To Date field. The system will display all meter readings from this date up to the current date. Alternatively, you can access the Meter Reading Inquiry to review readings by product or by meter.
Accessing the meter master	While recording meter readings, you can choose an option to access the Meter Master Maintenance program for a meter to review or change meter information.
Performing volume and weight conversions	When you enter a reading, the program performs the necessary volume and weight conversions. Open the detail area to view the temperature and density information.

Processing Options

See [Multi-Meter Readings \(P415105\)](#).

Updating Throughput Transaction Status

After you record closing meter readings, you need to compare the metered throughput with the outgoing in order to update the transaction status and approve the transactions for reconciliation. The program retrieves the metered throughput from the Meter Reading table (F41515).

The system includes in the comparison only transactions with the document types specified in the processing options. The system also includes only those transactions that have a last reconciliation status equal to the last reconciliation status specified in the processing option.

You can view throughput reconciliations in standard volume, ambient volume, or weight. A toggle function allows you to switch display modes. In standard mode, volume displays in the primary stock accounting unit of measure. In ambient mode, volume displays in the volume unit of measure set up for the item. In weight mode, weight displays in the weight unit of measure set up for the item. When resolving discrepancies, you should use ambient mode. However, you may not use ambient mode if the meters are temperature-compensated or are mass flow meters. A processing option controls which mode appears when you access this form.

Temperature-compensated meters return the quantity from the gantry interface in the standard volume, not ambient. The system does not do a conversion from ambient to standard. To perform throughput reconciliations, you would view the data in standard quantities and compare the difference to the standard throughput quantities, rather than ambient. Mass flow meters measure the quantity in weight, so you would view the weight quantities to compare the difference.

Complete the following tasks to update the transaction status:

- Reconcile throughput transactions
- Approve throughput reconciliations

- Print the Throughput Reconciliations Report (optional)

After you reconcile the throughput transactions, you update the transaction status to send the reconciliations to the next step in the process. Depending on the status codes set up for throughput reconciliations and specified in the processing options, updating at this point takes the reconciliations to an additional approval step or to Update Throughput Reconciliations, which updates the Gain/Loss Transactions (F42512) table.

Some companies prefer to include an additional approval step to allow a manager to approve the reconciliations before running Update Throughput Reconciliations. In this case, a person with the proper authority approves the reconciliations from Review/Approve Variances and updates the transaction status to proceed to Update Throughput Reconciliations.

If you want to approve and update the transaction status in a separate step, you must set the current and next status processing options differently and set the processing option to approve reconciliations in a separate step. This creates two different versions of the Throughput Reconciliations program.

After you have approved the reconciliations, you can print the Throughput Reconciliations Report.

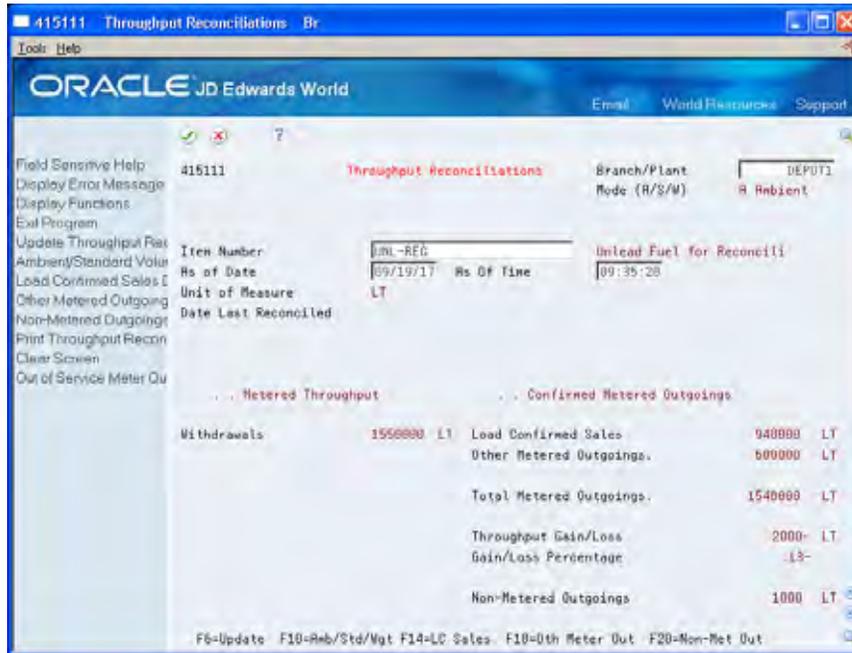
Before You Begin

- Perform load confirmations on all sales transactions for the items you want to reconcile. See *Confirming a Load by Trip* and *Confirming Load and Delivery* in the *Load and Delivery Management Guide*.
- Verify that the document types for the transactions you want to reconcile are specified in the processing options.
- Verify that the correct beginning and next reconciliation status codes are specified in the processing options.
- Record closing meter readings to calculate metered throughput. See *Recording Closing Meter Readings*.

To reconcile throughput transactions

	From Bulk Stock Management (G4150), choose Bulk Stock Reconciliations From Bulk Stock Reconciliations (G41502), choose Throughput Reconciliations
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On Throughput Reconciliations



1. To locate an item, complete the following fields:
 - Branch/Plant
 - Item Number
2. Complete the following optional fields:
 - As of Date
 - As of Time
3. Compare the metered throughput with the confirmed metered outgoings.
4. If the variance is correct, accept the information displayed to update the transaction status.

Field	Explanation
As of Date	The date that an order was entered into the system. This date determines which effective level that the system uses for inventory pricing. <i>Form-specific information</i> The date for which reconciliations are to be calculated. All unreconciled transactions with a date on or before the date entered will be included in the reconciliation.

Field	Explanation
As Of Time	The time when the readings were performed. If you leave this field blank, the system time will be used. Enter the time in either HHMMSS or HH:MM:SS format.

What You Should Know About

Correcting variances	<p>If the variance in the comparison is not correct, you can do the following to correct the variance and resume reconciliations:</p> <ul style="list-style-type: none"> ▪ Access the transaction details windows to display the transactions associated with each type of outgoing to determine if a transaction was missed or a reading was entered incorrectly. You can choose Load Confirmed Sales Details, Other Metered Outgoings Details, or Non-Metered Outgoings Details. ▪ Exit the program and correct the variance if the cause is known (for example, an order that has gone out, but has not been load confirmed).
Reviewing non-metered outgoings	<p>The quantities for non-metered outgoings are informational only. They are not calculated in the metered throughput withdrawals or the throughput gain/loss.</p>
Recording quantities when the meter is out of service	<p>If the meter is out of service, you can estimate the amount of product that passed through the meter and still perform throughput reconciliation. To do so:</p> <ul style="list-style-type: none"> ▪ Access the Out of Service Meter Quantity window ▪ Record the meter number and estimated quantity ▪ Return to Throughput Reconciliations <p>The Throughput Reconciliation program performs the conversions then displays the default tank information and the calculated ambient volume, standard volume, and weight.</p>

Processing Options

See [Throughput Reconciliations - Review \(P415111\)](#).

See [Throughput Reconciliations - Approve \(P415111\)](#).

To approve throughput reconciliations



From Bulk Stock Management (G4150), choose **Bulk Stock Reconciliations**
From Bulk Stock Reconciliations (G41502), choose **Review/Approve Variances (Throughput)**

On Review/Approve Variances

- To locate an item, complete the following fields:
 - Branch/Plant
 - Item Number
- Complete the following optional fields:
 - As of Date
 - As of Time
- Compare the metered throughput with the confirmed metered outgoings.
- If the variance is correct, accept the information displayed to update the transaction status.

To print the Throughput Reconciliations Report



From Bulk Stock Management (G4150), choose **Bulk Stock Reconciliations**
From Bulk Stock Reconciliations (G41502), choose **Throughput Reconciliation Report**

After you have approved throughput reconciliations, you can print the Throughput Reconciliations Report.

Run this report writer program to:

View the detailed transactions that make up a throughput reconciliation

View the totals for a throughput reconciliation

The report displays the transactions with the document types entered in the processing options and those with a last reconciliation status equal to the last reconciliation status entered in the processing options. The metered withdrawals are displayed as standard volumes only.

Alternatively, you can print the Throughput Reconciliations Report from Review/Approve Variances after you've approved the throughput reconciliations or from Throughput Reconciliations if your reconciliation process is set up to not require the approval step. Also, you can access the Throughput Reconciliations Report from the Bulk Stock Management Reports menu.

Before You Begin

- Verify that the document types for the reconciled transactions you want to view are specified in the processing options
- Verify that the last reconciliation status for the transactions is specified in the processing options

Branch/Plant		DEPOT1	Leaded Fuel		Metered Throughp		
Item Number		REG					
		Confirmed					
-----		-----	CT	3	02/20/16	987	
			S3	7	02/15/16	987	
MREG	02/06/16	500000	S3	9	02/15/16	987	
MREG	02/27/16	100000	CT	15	03/04/16	987	
MREG	02/27/16	1000000	CT	18	03/08/16	99	
MREG	02/27/16	11111	CT	18	03/08/16	99	
MREG	03/05/16	111109	CT	19	03/12/16	99	
MREG	03/05/16	4	CT	20	03/13/16	99	
MREG2	03/21/16	0	CT	21	03/13/16	991	
MREG2	03/21/16	10000	CT	22	03/13/16	991	
MREG	02/27/16	1000	CT	23	03/15/16	99	
MREG	02/27/16	1000	CT	24	03/15/16	11921	
Withdrawals		3817	LT	CT	24	03/15/16	11921

Processing Options

See [Throughput Reconciliation Report - Detail \(P415403\)](#).

See [Throughput Reconciliation Report -Totals \(P415403\)](#).

Updating Throughput Reconciliations

	From Bulk Stock Management (G4150), choose Bulk Stock Reconciliations From Bulk Stock Reconciliations (G41502), choose Update Throughput Reconciliations
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Run the Update Throughput Transactions report writer program to do the following:

- Update the reconciliation status on the Multi-Meter Readings table (F41515)
- Update the reconciliation status on transactions
- Update the Bulk Product Transactions table (F41511)
- Update each transaction and reading with the date it was reconciled
- Update the Gain/Loss Transactions table (F41512) with the calculated gain or loss values
- Print the Update Throughput Reconciliations Report

You can run this program in proof mode before you complete the actual update. This allows you to review each transaction and verify the information before you update the tables. To do this, add a proof version and leave the processing option blank.

Before You Begin

- Set the processing option to run the program in update mode.

415020	JD Edwards World	Page - 1
	Update Throughput Reconciliations	Date - 5/30/16
	Update Mode	
Branch/Plant	DEPOT1	
Item Number.	REG	Leaded Fuel
Reconciliation Date. . .	05/30/16	
Metered Throughput	Confirmed Metered Outgoings	
-----	-----	
Withdrawals.	1093153567 LT	Load Confirmed Sales 1008177242 LT
		Other Metered Outgoings. 27964 LT
		Total Metered Outgoings. 1008205206 LT
		Throughput Gain/Loss 84948361- LT
		Gain/Loss Percentage 8.43-
		Non-Metered Outgoings. 0 LT

Processing Options

See [Update Throughput Reconciliations - Proof \(P415020\)](#).

See [Update Throughput Reconciliations - Update \(P415020\)](#).

Process Operational Reconciliations

Processing Operational Reconciliations

Operational reconciliation calculates the amount that should be in physical inventory, based on all inbound and outbound transactions since the previous reconciliation, and compares it to the actual amount in the tanks (from the final tank dip). In other words, it measures and compares the physical inventory levels with the book inventory levels, so differences can be reconciled and operational gains or losses recorded. It then updates inventory to reflect the current physical stock levels. Operational reconciliation uses only standard volumes.

Complete the following tasks:

- [Recording Tank Dip Readings](#)
- [Updating Operational Transaction Status](#)
- [Updating Operational Reconciliations](#)
- [Reviewing Gains and Losses](#)

Before You Begin

- Set up the user defined code tables to define the document types to include in the operational reconciliation. See *About User Defined Codes for Bulk Stock*.
- Set up the gain/loss and inventory automatic accounting instructions (AAIs). See *About AAIs for Bulk Stock*.

Recording Tank Dip Readings



From Bulk Stock Management (G4150), choose Bulk Stock Reconciliations From Bulk Stock Reconciliations (G41502), choose Multi-Tank Dip Reading Input

Use Multi-Tank Dip Reading Input to record the physical stock (dip) levels in the tanks. The system uses the dip readings to calculate tank volume, which is necessary to process operational reconciliations.

After you record the readings, the system checks the following in order to calculate volume:

- Gross dip against the tank height and the tank reference height
- Water dip against the gross dip height
- Dip temperature against the minimum and maximum temperatures allowed for the tank

- Density temperature against the minimum and maximum temperatures allowed for the tank

For LPG products, the system uses the vapor pressure and temperature to calculate the liquid equivalent of the vaporized portion of the product. It then adds this liquid amount to the liquid volume calculated from the dip reading. Together, they make up the total volume of product in the LPG tank.

The system retrieves existing tank levels from the Bulk Product Transactions table (F41511). You can change this information and enter dip readings to record the current stock levels. You cannot change the tank levels that display after the reconciliation process has begun.

To record tank dip readings

On Multi-Tank Dip Reading Input

Tank	Gross Dip	Water Dip	T Read Dte	Temp.	Density	Den/Temp.	U
TKUNREC1	00	07					
TKUNREC2	00	11					

1. Complete the following fields to locate an item:
 - Branch/Plant
 - Item Number
2. Complete the following field:
 - Gross Dip
3. Complete the following optional fields:
 - Water Dip
 - Read Date
4. Complete the following fields or leave them blank to use the values from the Default Tank Information table:

- Temperature
- Density
- Density/Temperature

5. Access the detail area.

6. If the item is an LPG product, complete the following fields:

- LPG Vapor Pressure
- LPG Vapor Temperature
- Slip Tube Type

The system calculates the volume and weight information and displays it in the detail area.

Field	Explanation
Gross Dip	<p>This number represents the total dip reading of a tank. (Net volume = Gross dip volume - water dip volume + Other volumes.)</p> <p>You can enter a number for a single dip or multiple dip reading. Enter dip readings in increments consistent with the strapping units on the tank strappings table (for example, centimeters or feet/inches/fractions).</p> <p>For U.S. increments, Branch/Plant Constants control the delimiter that indicates the separator between the units of measure (for example, between feet, inches, and fractions). Therefore, if you used a “/” as the delimiter, enter the following:</p> <ul style="list-style-type: none"> ▪ 15 feet 10 1/2 inches: Enter 15/10/8 ▪ 15 feet: Enter 15// ▪ 6 feet 4 13/16 inches: Enter 6/4/13 ▪ 12 feet and 5/16 inches: Enter 12//5 <p>Fractions are shown in sixteenths of an inch.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>If the Dip Type is “E” (electronic) and the Gauging Method is “W” (weight) in the Tank Master, the program considers the dip type entered a weight. The unit of measure comes from the weight unit of measure specified in the Item Master.</p>
Read Dte	<p>You can enter a date with or without slashes (/) or dashes (-) as separators. If you leave a date entry field blank, the system supplies the current date.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>Enter the date that the tank dip was read, not the date that the information was entered. The default value is the current system date.</p>

What You Should Know About

Recording initial dip readings

If no previous readings exist for a particular tank, the system updates the Tank Status of Default Tank Information with an “I” for inactive.

You can record transactions for the tank before an initial dip reading. Be sure to record an initial reading date and reading time that is prior to the transaction dates. If the initial reading is not prior to the transaction dates, the system treats the transactions as retroactive (that is, before the last reconciliation) and does not include them in the reconciliation.

Recording gross dip from an electronic tank gauging device	<p>If you use an electronic tank gauging device that calculates the volume automatically, record the volume in the Gross Dip field. Then, record the user defined code for an electronic gauging device in the Dip Type field. The system uses this code to determine if the volume entered is ambient or standard.</p> <p>If you record an electronic reading in weight, enter the weight in the Gross Dip field. The Gauging Method in the Tank Master must be specified as "W" (weight). The program considers the entry a weight, where the unit of measure is the weight unit of measure specified in the Item Master, and enters the appropriate amounts in the Bulk Item Ledger.</p>
Reviewing tank readings	<p>While you record tank readings, you can choose an option to access the Tank Reading Inquiry program in order to review all of the physical tank dip readings as of a specific date and time.</p>
Review tank information	<p>While you record tank readings, you might need to review additional tank information. You can choose an option to access the Tank Strapping Table Maintenance, Tank Master Maintenance, and Default Tank Information programs.</p>

Processing Options

See [Multi-Tank Dip Readings Entry \(P415106\)](#).

Updating Operational Transaction Status

After you record tank dip readings, you need to compare all incoming and outgoing transactions recorded since the last reconciliation with the physical stock levels in each tank. Then, you can update the transaction status and approve the transactions for reconciliation.

The system includes in the comparison only transactions with the document types specified in the processing options. The system also includes only those transactions that have a last reconciliation status equal to the last reconciliation status specified in the processing option.

You must reconcile any differences prior to recording any operational gains or losses.

Complete the following tasks to update the transaction status:

- Reconcile operational transactions
- Approve operational reconciliations
- Print operational reconciliations reports (optional)

After you reconcile the operational transactions, you update the transaction status to send the reconciliations to the next step in the process. Depending on the status codes set up for operational reconciliations and specified in the processing options,

updating at this point takes the reconciliations to an additional approval step or to Update Operational Reconciliations.

Some companies prefer to include an additional approval step to allow a manager to approve the reconciliations before running Update Operational Reconciliations. In this case, a person with the proper authority approves the reconciliations from Review/Approve Variances and updates the transaction status to proceed to Update Operational Reconciliations.

If you want to approve and update the transaction status in a separate step, you must set the current and next status processing options differently and set the processing option to approve reconciliations in a separate step. This creates two different versions of the Operational Reconciliations program.

After you have approved the reconciliations, you can print the Operational Reconciliations reports.

Before You Begin

- Perform throughput reconciliation up through the time period you will perform operational reconciliation (optional). See *Processing Throughput Reconciliations*.
- Verify that all prior operational reconciliations are completed through Update Operational Reconciliations.
- Verify that the document types for the transactions you want to reconcile are specified in the processing options.
- Verify that the correct beginning and next reconciliation status codes are specified in the processing options.

To reconcile operational transactions



From Bulk Stock Management (G4150), choose **Bulk Stock Reconciliations**
From Bulk Stock Reconciliations (G41502), choose **Operational Reconciliations**

On Operational Reconciliations

1. Complete the following fields:

- Branch/Plant
- Item Number
- Tank ID

2. Complete the following optional field:

- As of Date

The system displays the following fields:

- Opening Stock
- Closing Stock

3. Compare the transactions against the physical stock levels.

4. If the variance is correct, accept the information displayed to update the reconciliation status.

Field	Explanation
Opening Stock	The opening stock in the tank for that day. The opening stock is the same quantity as the closing stock volume from the prior reconciliation period.

Field	Explanation
Closing Stock	The quantity from the most recent tank dip reading. The closing stock is based on the As Of Date for the reconciliation.

What You Should Know About

Correcting variances

If the variance in the comparison is not correct, do the following to correct the variance and resume reconciliations:

- Access the transaction details windows to review incomings and outgoings to determine if a transaction was missed or a reading was entered incorrectly. You can choose Incomings Transactions Detail or Outgoings Transactions Detail.
- Exit Operational Reconciliations and correct any variance, if the cause is known.

Displaying standard, weight, or ambient mode

On Operational Reconciliations, you can toggle between the standard, ambient, and weight modes. In standard mode, volume displays in the primary stock accounting unit of measure. In ambient mode, volume displays in the volume unit of measure set up for the item. When resolving discrepancies, you should use ambient mode. A processing option controls which mode appears when you access this form.

Processing Options

See [Operational Reconciliations - Review \(P415112\)](#).

See [Operational Reconciliations - Approve \(P415112\)](#).

To approve operational reconciliations



From Bulk Stock Management (G4150), choose **Bulk Stock Reconciliations**
From Bulk Stock Reconciliations (G41502), choose **Review/Approve Variances**

On Review/Approve Variances

ORACLE JD Edwards World

415112 Review/Approve Variances Br

Branch/Plant: DEPT01
Mode (R/S/W): Standard

Item Number: UNL-REC
Tank ID: []
As of Date: 09/19/17
As of Time: 10:00:00

Item	Current Product	Last Reconciled
<input type="checkbox"/> TRUNREC2	Unlead Fuel for Reconciliation	
Incomings	0 LT	Outgoings 0 LT
Opening Stock	0 LT	Closing Stock 0 LT
		Gain/Loss LT
<input type="checkbox"/> TRUNREC1	Unlead Fuel for Reconciliation	
Incomings	0 LT	Outgoings 0 LT
Opening Stock	0 LT	Closing Stock 0 LT
		Gain/Loss LT

Total Gain/Loss:

Opt: 1=Incomings 2=Outgoings F6=Update F10=Toggle F21=Print Rep't F24=More

1. Complete the following fields:

- Branch/Plant
- Item Number
- Tank ID

2. Complete the following optional field:

- As of Date

The system displays the following fields:

- Opening Stock
- Closing Stock

3. Compare the transactions against the physical stock levels.

4. If the variance is correct, accept the information displayed to update the transaction status.

To print operational reconciliations reports

	From Bulk Stock Management (G4150), choose Bulk Stock Reconciliations From Bulk Stock Reconciliations (G41502), choose an operational reconciliations report option
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After you've approved operational reconciliations, you can print the Operational Reconciliations Summary Report and the Operational Reconciliations Detail Report.

You can use both reports to compare all inbound and outbound transactions to the physical stock levels in each tank. Volumes are displayed as standard volumes only. The Operational Reconciliations Detail Report displays the detailed transactions for incomings and outgoings. The Operational Reconciliations Summary Report displays only summary information.

The reports display the transactions with the document types entered in the processing options and those with a last reconciliation status equal to the last reconciliation status entered in the processing options. The program selects the records with operational reconciliation dates within the From and Thru dates specified in the processing options.

Alternatively, you can print the Operational Reconciliations Detail Report from Review/Approve Variances after you've approved the operational reconciliations or from Operational Reconciliations if your reconciliation process is set up to not require the approval step. Also, you can print the Operational Reconciliations Summary Report from the Bulk Stock Management Reports menu.

Before You Begin

- Verify that the document types for the reconciled transactions you want to view are specified in the processing options
- Verify that the last reconciliation status for the transactions is specified in the processing options
- Verify that the From and Thru dates in the processing options for the reconciliations are correct

415404	JD Edwards World				Page 1
	Operational Reconciliations Summary Rpt				Date 05/17/16
Branch/Plant	DEPOT1				
Item Number	REG	Leaded Fuel			
Tank	Incomings	Outgoings	Opening Stock	Closing Stock	Gain/Loss
TKREGAGN	0	0	0	0	
TKREG2	0	0	3914830 LT	0	3914830-
TKREG3	0	0	0	0	
TKREG4	0	0	0	0	
TKREG1	0	0	3914930 LT	4967 LT	3909963- LT
	Total Product Gain/Loss				7824793- LT
415404	JD Edwards World				Page 5
	Operational Reconciliations Summary Rpt				Date 05/17/16
Branch/Plant	DEPOT1				
Item Number	UNL	Unleaded Fuel			
Tank	Incomings	Outgoings	Opening Stock	Closing Stock	Gain/Loss
ANJ-FR	0	0	1977634 LT	0	1977634-
ANJ-FR2	0	0	0	0	
ANJUNL	0	0	0	0	
ANJUNL2	0	0	0	0	
TKUNL2	0	0	0	0	
TKUNL3	0	0	0	0	
TKUNL1	0	0	0	0	
	Total Product Gain/Loss				1977634-

415407	JD Edwards World				Page 1
	Operational Reconciliations Detail Rpt				Date 05/17/16
Branch/Plant	DEPOT1				
Item Number	REG	Leaded Fuel			
Tank ID	TKREG1				
	Incomings		Outgoings		
Incomings	0		Outgoings 0		
Opening Stock	3914930 LT		Closing Stock 4967 LT		
			Gain/Loss Volume 3909963-		
	Total Product Gain/Loss				7824793- LT

415407	JD Edwards World				Page 9
	Operational Reconciliations Detail Rpt				Date 05/17/16
Branch/Plant	DEPOT1				
Item Number	UNL	Unleaded Fuel			
Tank ID	ANJ-FR				
	Incomings		Outgoings		
Incomings	0		Outgoings 0		
Opening Stock	1977634 LT		Closing Stock 0		
			Gain/Loss Volume 1977634-		

Processing Options

See [Operational Reconciliations Summary Report \(P415404\)](#).

See [Operational Reconciliations Detail Report \(P415407\)](#).

Updating Operational Reconciliations

	From Bulk Stock Management (G4150), choose Bulk Stock Reconciliations From Bulk Stock Reconciliations (G41502), choose Update Operational Reconciliations
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Run the Update Operational Reconciliations report writer program to update:

- The reconciliation status on transactions to indicate that they are reconciled
- Each transaction with the date it was operationally reconciled
- The Gain/Loss Transactions table (F41512) with the values calculated
- Inventory balances to reflect physical stock levels
- The adjusting entries to the Item Ledger table (F4111)
- The Account Ledger (F0911) with adjustments to the Bulk Gain/Loss and the Physical Inventory accounts
- The Reconciled Thru Date on the Depot/Product Information form (after all tanks for a product are reconciled)
- The Item Location table (F41021) with the quantity on hand
- The Bulk Product Transactions table (F41511) with the reconciliation status, reconciled flag, and the operational reconciled date

The program does not allow retroactive adjustments. It rejects any record with a general ledger date that is prior to the current accounting period.

You can also print the Update Operational Reconciliations Report.

You can run this program in proof mode before you complete the actual update. This allows you to review each transaction and verify the information before you update the tables.

To do this, add a proof version and leave the processing option blank.

Failure of operational reconciliations might be due to the following:

- Company dates not current
- AAIs not set up
- Branch/plant constants missing
- Lot numbers in transactions
- The account unit of measure on AAI accounts is blank or does not have a conversion factor

415021	JD Edwards World				Page 1	
	Update Operational Reconciliations				As of Date . 05/30/16	
	Update Mode					
Branch/Plant	DEPOT1					
Item Number.	REG		Leaded Fuel			
	Tank	Incomings	Outgoings	Opening Stock	Closing Stock	Gain/Loss
TKREG1		1190815314 LT	1008201698 LT	300 LT	3967 LT	182609949-
TKREG2		0	0	3914830 LT	0	3914830-
	** Warning - No Closing Reading Found **					
	Total Product Gain/Loss					10152528764-
	Total Depot Gain/Loss					10152528764- LT

Processing Options

See [Update Operational Reconciliations - Proof \(P415021\)](#).

See [Update Operational Reconciliations - Update \(P415021\)](#).

Reviewing Gains and Losses

Print the Gain/Loss Analysis Report or review the Gain/Loss Inquiry to review the overall gains and losses for a depot and product, based on the Gain/Loss Transactions table (F41512). It is useful to review this information after performing operational reconciliations.

Complete the following tasks:

- Print the Gain/Loss Analysis Report
- Review the Gain/Loss Inquiry

To print the Gain/Loss Analysis Report

	From Bulk Stock Management (G4150), choose Bulk Stock Reconciliations From Bulk Stock Reconciliations (G41502), choose Gain/Loss Analysis Report
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This report writer report shows the quantity and financial impact of the gains and losses.

Depending on your processing options, you can compare either the volume difference or the percent variance.

The system performs variance (or tolerance) checking as follows:

- For a volume difference, the system compares the total gain/loss for each product to the quantity entered in the processing options. This lets you print a report in which variances are greater than, equal to, or less than a certain volume.
- For a percent variance, the system compares the total gain or loss as a percent of total outgoings to the quantity entered in the processing options. This lets you print a report in which the variance is greater than, equal to, or less than a specified percentage.
- If no quantity for comparison is entered in the processing options, the report displays all records.

415402	JD Edwards World	Page 1
	Gain/Loss Analysis Report	Date 5/17/16
Item Number 1022543A	Test Item for SAR 1022543	
Branch/Plant DEPOT1	Depot 1	
Date From 10/15/15		
Date Thru 10/16/15		
Total Outgoings 0		
Average Daily Stock Balance		

Net Gains/Losses	Quantity	% of Total Outgoings	% of Avg Daily Stock Balance	Financial Value
Throughput Gain/Loss	LT	.00	.00	
Total Movement Gain/Loss	LT	.00	.00	
Operational Gain/Loss	LT	.00	.00	
Total Gain/Loss	LT	.00	.00	415402

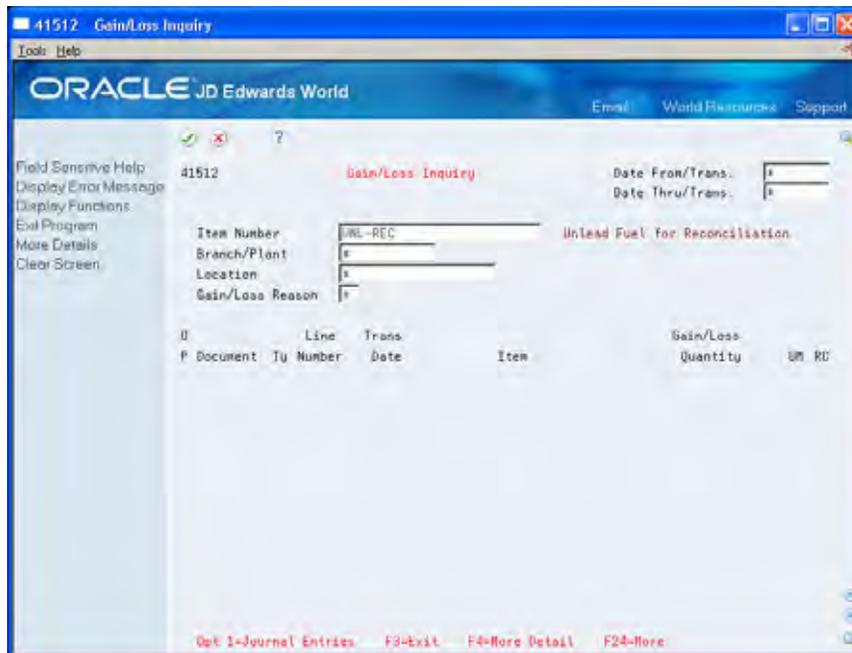
Processing Options

See [Gain/Loss Analysis Report \(P415402\)](#).

To review the Gain/Loss Inquiry

	From Bulk Stock Management (G4150), choose Bulk Stock Management From Bulk Stock Management (G41501), choose Gain/Loss Inquiry
-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------

On Gain/Loss Inquiry



Complete one of more of the following fields to narrow your search or accept the default values:

- Date From/Transaction
- Date Thru/Transaction

- Item Number
- Branch/Plant
- Location
- Gain/Loss Reason

The program displays the gain/loss information based on the selection criteria you specified.

Work with Reconciliations Information

Working with Reconciliations Information

As part of your depot operations, you might need to review totals of transactions that have been processed through operational reconciliations. Additionally, you might need to review or change a reconciliation status.

Complete the following tasks:

- [Reviewing Operational Reconciliation History](#)
- [Working with Reconciliation Status](#)

Reviewing Operational Reconciliation History



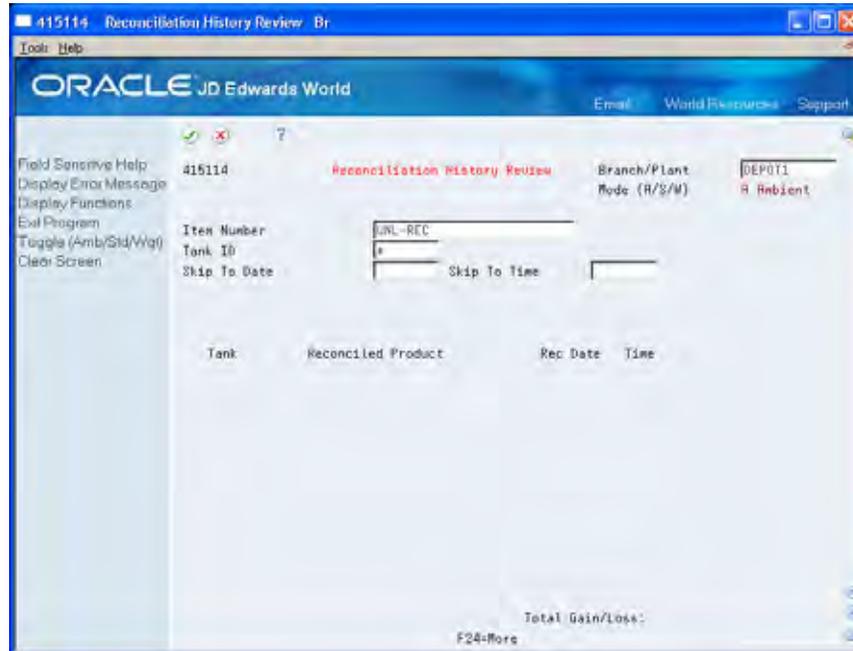
From Bulk Stock Management (G4150), choose **Bulk Stock Reconciliations**
From Bulk Stock Reconciliations (G41502), choose **Reconciliation History Review**

You can review totals of transactions that have been processed through operational reconciliations in order to resolve discrepancies in the current reconciliation period. When you process operational reconciliations, the system creates a historical record for each depot, item, tank, reconciliation date, and reconciliation time. The system tracks data for the total of incoming transactions, outgoing transactions, opening quantity, closing quantity, and gain/loss quantity. Reconciliation History Review displays the historical record of past operational reconciliations using this data.

You can choose to view all history by item or by tank within a depot. Optionally, you can display the history as of a selected date.

To review operational reconciliation history

On Reconciliation History Review



1. Complete the following field:
 - Branch/Plant
2. Complete one or more of the following fields to narrow your search:
 - Item Number
 - Tank ID
 - Skip To Date
 - Skip To Time

The system displays the operational reconciliation history according to your selection criteria.

Processing Options

See [Reconciliation History Review \(P415114\)](#).

Working with Reconciliation Status

You can review the status of a reconciliation record or change the status if necessary. The same program controls two forms, one which allows you only to review status information and one which allows you to make changes to the status.

Complete the following tasks:

- Review reconciliation status
- Change reconciliation status

To review reconciliation status



From Bulk Stock Management (G4150), choose **Bulk Stock Reconciliations**
From Bulk Stock Reconciliations (G41502), choose **Reconciliation Status Inquiry**

You can review the reconciliation status of a transaction recorded in the system by item number, tank ID, or last status.

On Reconciliation Status Inquiry

Document	Do	Order	R	Tank	Ambient	Stock	UOM	R	Last
P Number	Ty	Date	T	ID	Volume	UM	Volume	UM	Y Stat
18257	BT	01/02/17	F	TKUNREC1	600000-	LT	596040-	LT	000
18258	BT	01/02/17	F	TKUNREC1	1000-	LT	993-	LT	000
18258	BT	01/02/17	T	TKUNREC2	1000	LT	993	LT	000
5412	OV	04/10/15	P	TKUNREC1	2000000	LT	2000000	LT	000
0601	S3	04/10/15	S	TKUNREC1	25000-	LT	24035-	LT	000
0670	S3	04/10/15	S	TKUNREC1	200000-	LT	199600-	LT	000
0680	S3	04/10/15	S	TKUNREC1	273000-	LT	271195-	LT	000
2008	CT	04/10/15	S	TKUNREC1	5000-	LT	5960-	LT	000
2008	CT	04/10/15	S	TKUNREC1	4000-	LT	3974-	LT	000
2008	CT	04/10/15	S	TKUNREC1	5000-	LT	4967-	LT	000
2008	CT	04/10/15	S	TKUNREC1	5000-	LT	4967-	LT	000

1. Complete the following fields or accept the default values:

- Branch/Plant
- Date
- Thru
- Date Range - Based On
- Document Type

2. Complete the following field:

- Item Number
3. Complete one or both of the following fields to narrow your search or accept the default values:
- Tank ID
 - Reconciliation Status

The system displays the reconciliation status according to your selection criteria.

Processing Options

See [Reconciliation Status Inquiry \(P415113\)](#).

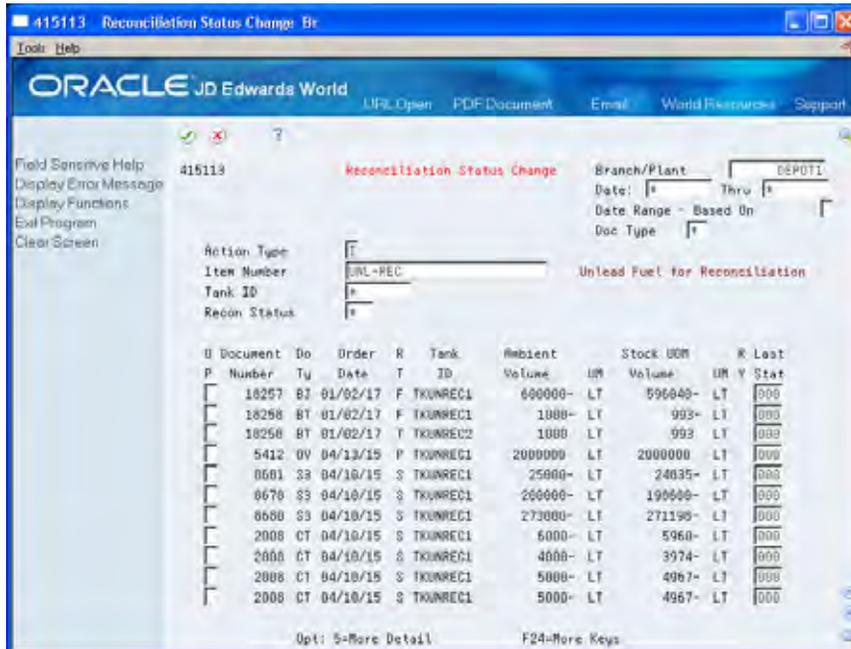
To change reconciliation status

	From Bulk Stock Management (G4150), choose Bulk Stock Reconciliations From Bulk Stock Reconciliations (G41502), choose Reconciliation Status Change
-----------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------

You can manually change the reconciliation status of a transaction recorded in the system. This is useful, for example, if you approved reconciliations prematurely. You can reset the reconciliation status, enter missed transactions or other information, and then approve the reconciliations again.

This program is not meant to change a reconciliation status after you have run the update reconciliations program. Manually changing the reconciliation status of a record without running the appropriate processes to update the status could create inaccurate records in the system.

On Reconciliation Status Change



1. Complete the following fields or accept the default values:

- Branch/Plant
 - Date
 - Thru
 - Date Range - Based On
 - Document Type
2. Complete the following field:
 - Item Number
 3. Complete one or more of the following fields to narrow your search or accept the default values:
 - Tank ID
 - Reconciliation Status

The system displays the reconciliation status according to your selection criteria.
 4. Complete the following field to change the reconciliation status of a record:
 - Last Status

What You Should Know About

Reviewing transaction details

To review additional information for a specific transaction, choose the More Detail option to open the Bulk Product Transaction Details window.

Processing Options

See [Reconciliation Status Inquiry & Change \(P415113\)](#).

5 Bulk Stock Information

Overview to Bulk Stock Information

Objectives

- To review the history of all transactions for a specific bulk product or product and location
- To review a summary by month of all the transactions that affect tank stocks
- To review the inventory balances for tanks containing commingled stock
- To review meter readings for a given product or meter for a specific time period
- To review all physical tank dip readings as of a specific date and time

About Bulk Stock Information

As part of your management of bulk stock, you might need to review the following:

- Current status of tank stock
- Availability and demand of stock
- Transactions
- Commingled stock quantities
- Meter and tank readings used for reconciliation

Review Bulk Stock Information

Reviewing Bulk Stock Information

Several programs let you review information on your bulk stock. You can review the following:

- Current status of tank stock
- Availability and demand of stock items
- Transactions affecting stock
- Quantities of commingled stock
- Meter and tank readings used for reconciliation

Complete the following tasks:

- [Reviewing Product Transactions](#)
- [Reviewing Monthly Tank Stock Status](#)
- [Reviewing Commingled Stock](#)
- [Reviewing Meter Readings](#)
- [Reviewing Tank Readings](#)

Reviewing Product Transactions

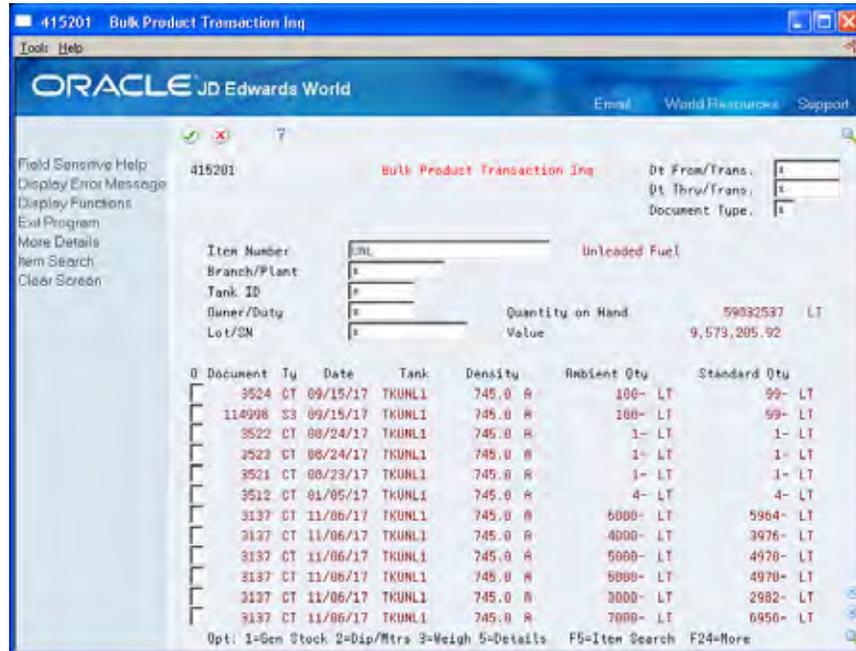


From Bulk Stock Management (G4150), choose **Bulk Stock Management**
From Bulk Stock Management (G41501), choose **Bulk Product Transaction Inquiry**

You can review the history of all transactions for a specific bulk product or product and location. These transactions might be the result of an intra-depot stock movement, a sale (posted after the customer sales update process), or a purchase receipt.

To review product transactions

On Bulk Product Transaction Inquiry



1. Complete the following field:
 - Item Number
2. Complete one or more of the following optional fields:
 - Date From/Transaction
 - Date Thru/Transaction
 - Document Type
 - Branch/Plant
 - Tank ID
 - Owner/Duty
 - Lot
3. Choose a transaction.
4. Access Bulk Product Transaction Details.

Bulk Product Trans. Details	
Branch/Plant DEPOT1	
Doc. No./Type 3137 CT	
Doc. Company 69249	
Item Number UNL	
Description Unleaded Fuel	
Tank ID TRHNL1	Owner/Duty
Lot/SN	G/L Date 11/06/17
Density 745.0 R	Vapour Press
Density Temp 20.00 C	Vapour Temp
Temperature 20.00 C	Liquid Volume
UCF .9940	Liquid Weight
Ambient Vol 5000- LT	Vapour Volume
Standard Vol 5964- LT	Vapour Weight
Other Volume	Unit Cost .2000
PSRU Qty 5964- LT	Extended Cost 1,192.80-
Weight Result 4069- KG	
J/E Ln/Batch 1.0 8130015	Trans. Date 11/06/17
Update Dte/Time 06/12/17 17:08:01	User/Program L055017017 X149799
Reason Code	Explanation Loaded Quantity

What You Should Know About

Accessing Bulk Product Transaction Inquiry

Alternatively, you can access Bulk Product Transaction Inquiry from the Intra-Depot Stock Movements menu or the Item Ledger.

Reviewing stock movements

To review general stock movements, choose the General Stock Inquiry option for the transaction. This form displays the transaction information from the general stock movements form.

Processing Options

See [Bulk Product Transaction Inquiry \(P415201\)](#).

Reviewing Monthly Tank Stock Status

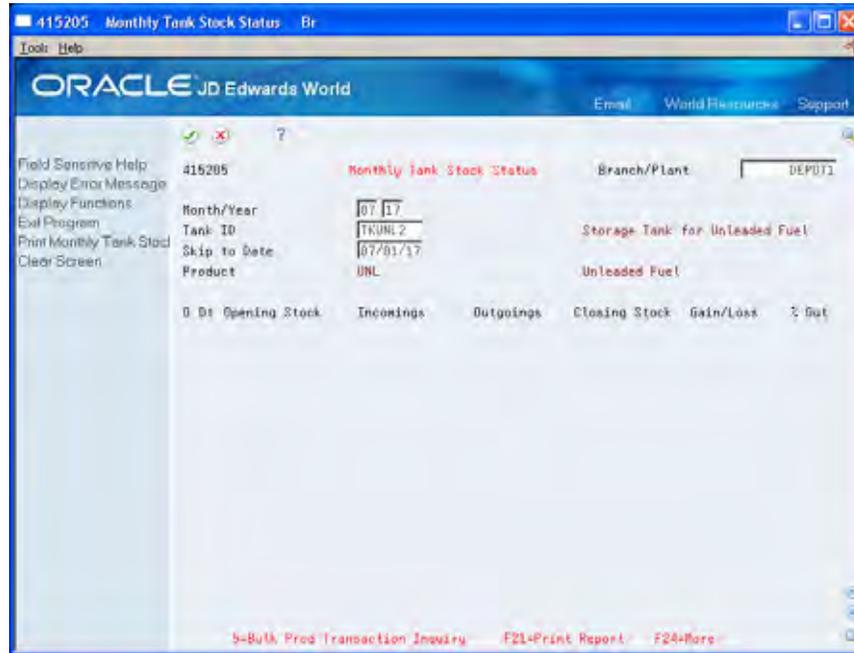


From Bulk Stock Management (G4150), choose **Bulk Stock Management**
From Bulk Stock Management (G41501), choose **Monthly Tank Stock Status**

Use Monthly Tank Stock Status to review a summary by month of all transactions that affect tank stocks. You can review only transactions that have been operationally reconciled.

To review monthly tank stock status

On Monthly Tank Stock Status



1. Complete the following fields:
 - Branch/Plant
 - Tank ID
2. Complete one of the following optional fields:
 - Month/Year
 - Skip to Date

The system displays data in the following fields, based on your search criteria:

- Opening Stock
- Incomings
- Outgoings
- Closing Stock
- Gain/Loss
- Percent of Total Outgoings

Field	Explanation
Incomings	The total of all unreconciled incoming transactions for the document types listed in the processing options.
Outgoings	The total of all unreconciled outgoing transactions for the document types listed in the processing options.

Field	Explanation
Gain/Loss	The operational gain/loss calculated for that day. Gains are shown as positive and losses as negative.
Percent of Total Outgoings	The gain/loss expressed as a percentage of the total outgoings for the reporting period.

What You Should Know About

Printing Tank Stock Status If you want to print the Monthly Tank Stock Movements report, choose the Print Monthly Tank Stock Report option.
See *Reviewing Monthly Tank Stock Movements*.

Processing Options

See [Monthly Tank Stock Status \(P415205\)](#).

Reviewing Commingled Stock



From Bulk Stock Management (G4150), choose **Bulk Stock Management**
From Bulk Stock Management (G41501), choose **Commingled Stocks Inquiry**

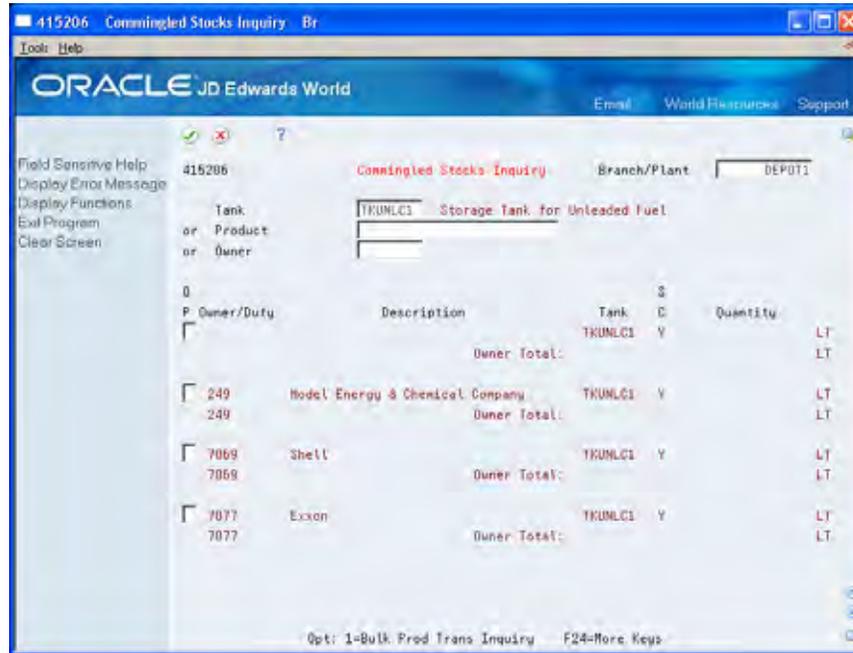
Use **Commingled Stocks Inquiry** to review the inventory balances for tanks containing commingled or custody stock. You can display inventory balances in the following ways:

- By owner, to view the balances for all tanks and products by a specific owner
- By tank, to view the balance for a given tank for all owners
- By product, to view the balance based on the current product in the Tank Master table (F41500)

Balances for some tanks by owner might be negative. This occurs when only one tank is current and all product has been withdrawn from that tank, regardless of ownership.

To review commingled stock

On Commingled Stocks Inquiry



Complete one of the following fields:

Tank

Product

Owner

The system displays inventory balances relating to the search criteria, as well as the following field:

Stock Commingled

Field	Explanation
Stock Commingled	<p>A stock value that identifies the type of commingled stock. If any tank for a product contains commingled stock, you must set up all tanks for that product as containing commingled stock. You also use this field to divide product in the tank into two quantities. For example, enter a value if you want to separate duty-paid from unpaid product in the same tank. If the stocks are commingled, you must record all the product movements at the “owner” level. Valid values are:</p> <p>Y or 1 - Stocks are commingled for custody N or 0 - Stocks are not commingled D or 2 - Stocks are commingled for duty B or 3 - Stocks are commingled for both custody and duty</p> <p><i>Form-specific information</i></p> <p>The Stock Commingled field on Additional Tank Information must identify a tank as commingled to display on Commingled Stocks Inquiry.</p>

What You Should Know About

Reviewing transactions	While you review commingled stock, you can access the Bulk Product Transaction Inquiry program to review additional product and transaction information.
Reviewing quantity information	You can review quantity information for commingled stock and determine your current and future needs with the Summary Availability program (P41202) from the Bulk Stock Management menu. (G41501).

Reviewing Meter Readings

	<p>From Bulk Stock Management (G4150), choose Bulk Stock Reconciliations From Bulk Stock Reconciliations (G41502), choose Meter Reading Inquiry</p>
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Use **Meter Reading Inquiry** to review meter readings for a given product or meter for a specific time period. You can view records of reconciled stock, unreconciled stock, or both, depending on the status codes set in the processing options. The system stores records in the Multi-Meter Readings table (F41515).

To review meter readings

On Meter Reading Inquiry



Complete one or more of the following fields:

Branch/Plant

Status Code From

Status Code Thru

Status Range - Based On

Product

Meter Number

What You Should Know About

Accessing Meter Reading Inquiry

Alternatively, you can access Meter Reading Inquiry from Multi-Meter Readings on the Bulk Stock Reconciliations menu.

Deleting meter readings

You cannot delete meter readings from Meter Reading Inquiry.

Processing Options

See [Meter Readings Inquiry \(P415207\)](#).

Reviewing Tank Readings



From Bulk Stock Management (G4150), choose **Bulk Stock Reconciliations**
From Bulk Stock Reconciliations (G41502), choose **Tank Reading Inquiry**

Use Tank Reading Inquiry to view all of the physical tank dip readings as of a specific date and time. The system displays information from the Tank Master (F41500) and Bulk Product Transactions (F41511) tables. If no dip reading is available as of the specified date, the system retrieves the data from the Default Tank Information table (F41508).

To review tank readings

On Tank Reading Inquiry

Product	Tank ID	Tank C	Gross Dip	Tank Temp	Book Stock
REG	TKREG1	Y	20.00	C	14000310
REG	TKREG2	N	20.00	C	14000661
UNL	TKUNL1	Y	20.00	C	14841590
UNL	TKUNL2	N	20.00	C	14990947
PREH	TKPREH	V	20.00	C	4973159
DIESEL	TKDIE	Y	20.00	C	14952500
JET	TKJET	Y	20.00	C	43- LT
RDD	TKRDD	Y	20.00	C	5000
LPG	TKLPG	Y	5.00	C	2536
10W30	TKW30	Y	20.00	C	2000000
10W40	TKW40	Y	20.00	C	2500000
BIT	TKBIT	Y	50.00	C	3000000
BASEB	TKBBB	Y	20.00	C	LT
MED	TKMED	Y	35.00	C	2500000
HVY	TKHVY	Y	40.00	C	2500000
BLNKIT	TKKIT	Y	20.00	C	LT

Opt: S=Dip Reading Input F4=Full Details F24=More Keys

- Complete the following fields:
 - Branch/plant
 - Date/Time
 - Skip To Item Number
- Access the detail area.
- Review the following fields:
 - Pumpable Stock
 - Ullage

Field	Explanation
Pumpable Stock	The book stock minus the unpumpable stock.
Ullage	The capacity of the tank, minus the book stock, minus the pipeline volume.

What You Should Know About

- Reviewing tank density** You can display tank readings in two different formats:
- Gross dip and related data
 - Tank density and related data
- To display tank density, change the processing option for this program.
- Reviewing tank totals** To review totals of book stock, pumpable stock, and ullage, choose the Tank Reading Inquiry Total Window option. The program retrieves the totals from the most current records for each product and tank listed on the Tank Reading Inquiry form.
- Recording dip readings** While you review tank dip readings, you can access the Multi-Tank Dip Reading Input program to record dip readings for the tank.

Processing Options

See [Tank Reading Inquiry \(P415203\)](#).

6 Bulk Stock Management Reports

Overview to Bulk Stock Management Reports

Objectives

- To review reports used for bulk stock control
- To print the Daily Product Movements report to review daily incoming and outgoing quantities for a current day
- To print the Monthly Tank Stock Movements report to review the transactions affecting stock balances
- To print the Tank Strapping Table Report to review tank dip heights and cumulative volumes

About Bulk Stock Management Reports

Bulk stock control reports provide useful information for monitoring bulk inventory. In your day-to-day operations, you might need to determine the status of tank stock, strappings, or specific transactions.

Review Bulk Stock Reports

Reviewing Bulk Stock Reports

Several programs allow you to process reports to review bulk inventory and tank strappings information.

Complete the following tasks:

- [Reviewing Daily Product Movements](#)
- [Reviewing Monthly Tank Stock Movements](#)
- [Reviewing Tank Strappings](#)

Reviewing Daily Product Movements

	From Bulk Stock Management (G4150), choose Bulk Stock Management From Bulk Stock Management Reports (G415012), choose Daily Product Movements
------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------

Run Daily Product Movements to review incoming (Today Ins) and outgoing (Today Outs) quantities for the current day. The report lists:

- Ambient and standard volume quantities
- Standard weight quantities
- Current standard quantities by product and customer

Totals of these quantities appear at the bottom of the report.

415401		JD Edwards World				Page 1					
		Daily Product Movements				Date 5/17/16					
Branch/Plant	DEPOT1	Depot 1									
Item Number.	REG	Leaded Fuel									
Tank ID.	TKREG1	Storage Tank for Leaded Fuel									
Transaction Date . . .	05/16/16										
Document Number	Customer DT	Number	Temp	Density	-----T O D A Y Ambient	I N S----- Standard	-----T O D A Y Ambient	O U T S----- Standard	Book Balance Standard		
Opening Stock											
10572 S3	249	250.0	C	700.0	A		100- LT	99- LT	4598379- LT		
	Weight Out . .				70- KG				4598478- LT		
18418 BJ	249	250.0	C	700.0	A	10000 LT	10000 LT		4588478- LT		
	Weight In. . .				6998 KG						
18418 BJ	249	250.0	C	700.0	A	10000 LT	10000 LT		4578478- LT		
	Weight In. . .				6998 KG						
2258 CT	249	250.0	C	700.0	A		1000- LT	987- LT	4579465- LT		
	Weight Out . .				700- KG						
2259 CT	249	200.0	C	700.0	A	10000 LT	9934 LT		4569531- LT		
	Weight In. . .				6999 KG						
2260 CT	249	250.0	C	700.0	A		1000- LT	987- LT	4570518- LT		
	Weight Out . .				700- KG						
10609 S3	249	250.0	C	700.0	A		1000- LT	987000- ML	5557518- ML		
	Weight Out . .				700- KG						
10610 S3	249	250.0	C	700.0	A		1000- LT	987000- ML	6544518- ML		
	Weight Out . .				700- KG						
10611 S3	249	250.0	C	700.0	A		100- LT	99000- ML	6643518- ML		
	Weight Out . .				70- KG						
10612 S3	249	250.0	C	700.0	A		100- LT	99000- ML	6742518- ML		
	Weight Out . .				70- KG						
Tank Total:					30000	LT	29934	LT	4300- LT	2174073- ML	6742518- ML
Product Total:					30000	LT	29934	LT	4300- LT	2174073- ML	6742518- ML
Temperature Gain/Loss:											
Transportation Gain/Loss											

Processing Options

See [Daily Product Movements \(P415401\)](#).

Reviewing Monthly Tank Stock Movements

	From Bulk Stock Management (G4150), choose Bulk Stock Management From Bulk Stock Management Reports (G415012), choose Monthly Tank Stock Movements
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Run Monthly Tank Stock Movements to review a summary of the transactions affecting tank stock balances, the totals for each product, and the depot's product gain or loss for the period.

You can generate this report for any time period specified. For example, you can run it for a single month, multiple months, or a year, depending on your report writer data selection values. If you frequently request reports for different dates, add this version with the Date field as a permanent data selection.

415405		JD Edwards World Monthly Tank Stock Movements							Page - . . . 2 Date - . . . 5/17/16	
Depot: DEPOT1 Depot 1										
Month: December										
As of Date:		Tank: TKREG1		Product: Leaded Fuel			Stk UoM: LT			
Rec Day	Opening Stock	Incomings	Outgoings	Cum. Out	Closing Stock	Gain/Loss	Cumulative Gain/Loss	% Gain/Loss Analysis		
								Closing	Out	Cum. Out
18	0	0	0	0	0			.00	.00	.00
28	0	15208166	460623	460623	993	14746550-	14746550-	850.50-	32.01-	32.01-
29	993	994393	1986	462609	993186	214-	14746764-	.00	.11-	.00
30	993186	99340	0	462609	1093386	860	14745904-	.00	.00	.00
415405		JD Edwards World Monthly Tank Stock Movements							Page - . . . 3 Date - . . . 5/17/16	
Depot: DEPOT1 Depot 1										
Month: February										
As of Date:		Tank: TKREG1		Product: Leaded Fuel			Stk UoM: LT			
Rec Day	Opening Stock	Incomings	Outgoings	Cum. Out	Closing Stock	Gain/Loss	Cumulative Gain/Loss	% Gain/Loss Analysis		
								Closing	Out	Cum. Out
06	1093386	295920	3725	466334	3914930	2529349	12216555-	.65	679.02	5.42

Processing Options

See [Monthly Tank Stock Movements \(P415405\)](#).

Reviewing Tank Strappings

	From Bulk Stock Management (G4150), choose Bulk Stock Management From Bulk Stock Management Reports (G415012), choose Tank Strapping Table Report
------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------

Run the Tank Strapping Table Report to review the dip heights and the cumulative volumes associated with those dip heights. Each tank table prints on a separate page, but tables are grouped within cost centers.

415406	JD Edwards World				Page	-	1
	Tank Strapping Table Report				Run Date	-	5/17/16
Business Unit . . .	DEPOT1	Depot 1					
Tank ID	TKUNL1	Storage Tank for Unl					
Tank Location . . .	TF1	Tank Farm 1	Initial Volume . . .	10000	LT	Strapping Units . .	Centimeters
Tank Type	VER	Vertical	Tank Capacity	9999999999	LT	Reference Height . .	1000.00
Dip Type	W	Wet Dip Reading	Unpumpable Volume . .	15000	LT	Dip From00
Heated Tank	N		Pipeline Volume	2000	LT	Dip Thru	9999999999.99
Chart ID	CHUNL		Low Stock Warning . .			Increment	1.00
Date	03/14/95		Roof Weight	1.00			
			Floating Height	150.00			

Str No.	Strap Hgt. (CM)	Volume Incremen (LT/CM)	Incr. Volume (LT)	Strap Volume (LT)	Dip Height (CM)	Dip Volume (LT)
001	10.00	26621.60000	266217	366217	10.00	366217
					11.00	379668
					12.00	393119
					13.00	406571
					14.00	420022
					15.00	433473
					16.00	446924
					17.00	460375
					18.00	473827
					19.00	487278
002	20.00	13451.20000	400729	500729	20.00	500729
					21.00	527351
					22.00	553972
					23.00	580594
					24.00	607216
					25.00	633838
					26.00	660459
					27.00	687081
					28.00	713703
					29.00	740324
003	30.00	26621.70000	666946	766946	30.00	766946
					31.00	780397
					32.00	793848
					33.00	807299
					34.00	820750
					35.00	834202
					36.00	847653
					37.00	861104
					38.00	874555
					39.00	888006

Processing Options

See [Tank Strapping Table Report \(P415406\)](#).

7 Bulk Depot Setup

Overview to Bulk Depot Setup

Objectives

- To set up a depot
- To specify depot constants for bulk products, such as location specifications and default temperature and density
- To set up valid locations, such as tanks, within each depot

About Bulk Depot Setup

Managing bulk inventory transactions is key to controlling inventory and product movements. To successfully manage transactions, you must first set up your depots.

You set up each depot to supply the default information that is used throughout the Bulk Stock Management system. The system pre-loads these default values whenever you perform a bulk transaction, print reports, or use programs to locate information. You can update or maintain this information as your business situations demand.

You can set up separate depots for bulk and packaged products or set up one depot for both. Your company's business processes determine how you set up depots.

Bulk depot setup involves the following tasks:

- Setting up depot constants for bulk products
- Setting up depot locations

Before You Begin

- Create an Address Book record for each depot (branch/plant) or owner for commingled stock. See the *Address Book Guide*.
- Set up each depot as a business unit to define information about inventory, expense, and revenue entries. Even if your company chooses not to post any accounts at the depot level or wants to record accounting activity to another business unit, you must set up each depot as a business unit. See the *General Accounting Guide*.
- Define a default branch/plant. See *Setting Up Constants (P41001)* in the *Inventory Management Guide*.

Set Up Depot Constants for Bulk Products

Setting Up Depot Constants for Bulk Products

The system uses the constants you set up on Branch/Plant Constants as the default values for bulk products. You must define constants for each depot. The system preloads these values whenever you perform bulk transactions. However, you can override the values in various bulk programs.

For depots with bulk products, you must define the format specifications for the stocking locations and the default temperature and density information.

Complete the following tasks to set up depot constants for bulk products:

- [Defining Format Specifications for a Depot Location](#)
- [Defining Depot Temperature and Density](#)

Before You Begin

- Define the depot default values used for managing inventory, processing orders and recording to the general ledger on Branch/Plant Constants - Page 1. See *Defining Branch/Plant Constants (P41001)* in the *Inventory Management Guide*.

Defining Format Specifications for a Depot Location



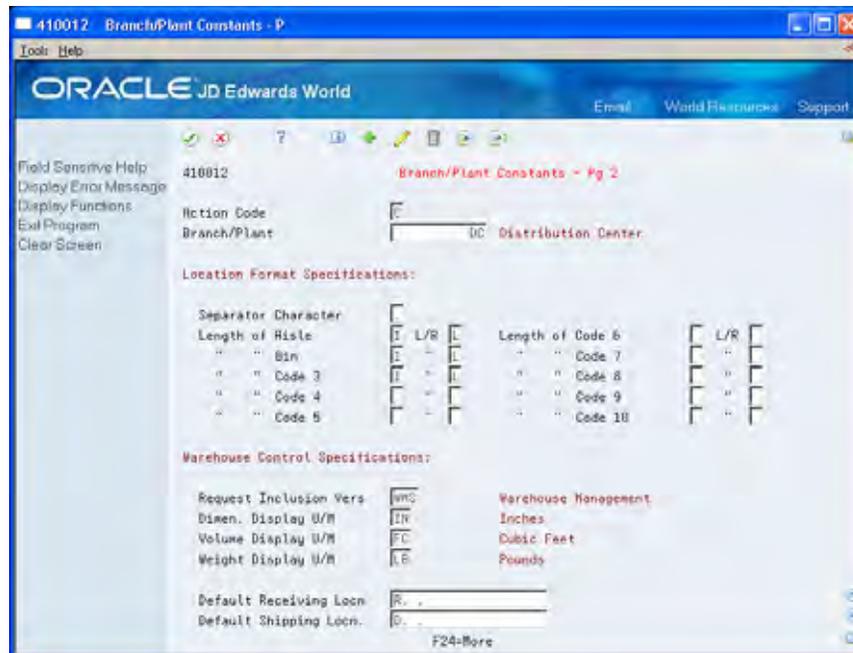
From Inventory Management (G41), enter 29
From Inventory System Setup (G4141), choose Branch/Plant Constants

You must define the format specifications for your stocking locations before setting up the locations for this depot. Format specifications record the numbering scheme used for stocking locations. You also define the units of measure that this depot uses for volume, weight, and dimensions of the stocking items.

To define format specifications for a depot location

On Branch/Plant Constants

1. Choose the depot you want to set up.
2. Access Branch/Plant Constants - Page 2.



3. On Branch/Plant Constants - Page 2, complete the following fields:

- Separator Character
- Length of Aisle
- Left or Right Justification
- Length of Bin
- Left or Right Justification

Field	Explanation
Separator Character	<p>A character that divides the elements of the location when you display them on forms or reports. For example, you might use a slash (/) as a separator character to divide elements such as aisle, bin, and shelf in a location code.</p> <p>Separators are not stored in the tables, but are used to edit a location on a form or report. If you do not want to use separators, leave this field blank. However, you must enter characters and spaces to equal the correct length of each element in the location code. The system then displays the location as one string of characters.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>The system uses the character you enter in this field to separate the combination of tank/owner and aisle/bin as it appears on forms or reports. Companies commonly use a period (.) as the separator character.</p>
Length of Aisle	<p>Identifies the number of characters to represent the tank (or aisle for packaged stock). Valid values are numbers 1 through 8.</p>

Field	Explanation
" " Bin	Identifies the number of characters to represent the owner for commingled bulk stock (or aisle for packaged stock). Valid values are numbers 1 through 8.

Defining Depot Temperature and Density



From Inventory Management (G41), enter 29
From Inventory System Setup (G4141), choose Branch/Plant Constants

You must define the default values that the depot uses for temperature, density, and measurement of bulk products.

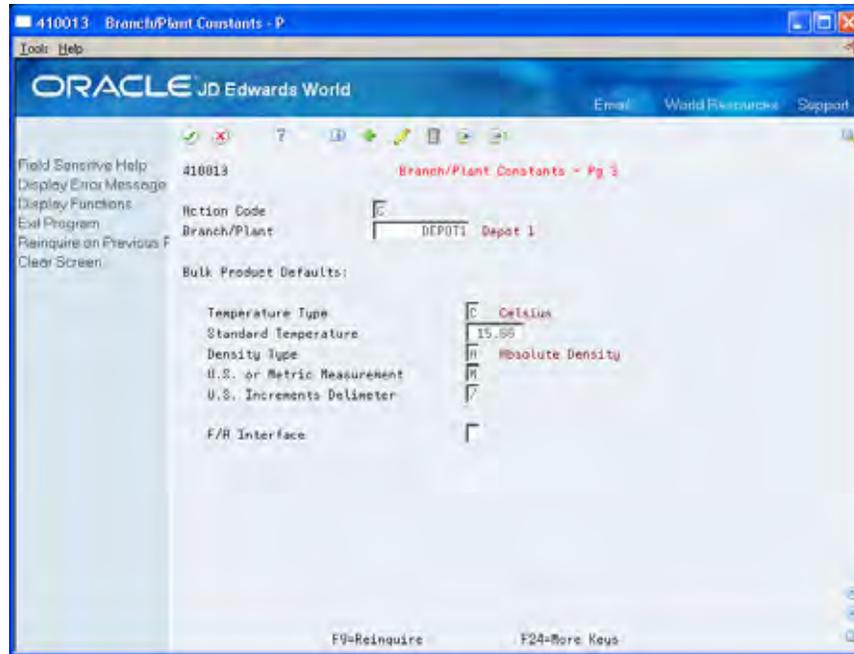
To define depot temperature and density

On Branch/Plant Constants

1. Choose the depot you want to set up.
2. Access Branch/Plant Constants - Page 1.

The screenshot shows the 'Branch/Plant Constants - Pg 1' window in Oracle JD Edwards World. The window title is '41001 Branch/Plant Constants - Pg 1'. The interface includes a menu bar with 'Look' and 'Help', and a toolbar with various icons. The main area is divided into two columns of fields. The left column contains fields like 'Action Code', 'Branch/Plant', 'Brch/Plt Address Number', and various flags for 'Symbol to Identify' and 'Interface G/L'. The right column contains fields like 'Backorders Allowed (Y/N)', 'Customer Cross Ref. Code', 'Supplier Cross Ref. Code', 'Current Inventory Period', 'Purchase Order Issue Cost', 'Inventory Carrying Cost (%)', 'Sales/Inventory Cost Method', 'Purchasing Costing Method', 'Location Control (Y/N)', 'Warehouse Control (Y/N)', 'Foreign Depot', 'Quality Management (Y/N)', 'Branch/Plant Type', 'Item Branch Creation', and 'Location Lot Creation'. At the bottom, there are keyboard shortcuts: 'F5-Page-2', 'F8-Page-3', 'F13-Define Availability', and 'F24-More Keys'.

3. Access Branch/Plant Constants - Page 3.



4. On Branch/Plant Constants - Page 3, complete the following fields:

- Temperature Type
- Standard Temperature
- Density Type
- U.S. or Metric Measurement
- U.S. Increments Delimiter

Field	Explanation
Standard Temperature	Indicates the temperature to which the system converts all volumes for inventory purposes. This is the depot (branch/plant) standard. You can convert volumes to a baseline temperature using the Petroleum Measurement Table routines (for example, 60 degrees Fahrenheit or 15 degrees Centigrade) and then convert to the depot standard (for example, 20 degrees Centigrade).
U.S. Increments Delimiter	This character separates feet from inches and fractions when entering U.S. increments in tank strappings and the dip volume calculator. The integer to the left of the delimiter is feet. The integer to the right is inches. Another delimiter denotes fractions of an inch in sixteenths. You can use any character except a period (.) or a comma (,). If you leave this field blank, the system uses a forward slash (/).

What You Should Know About

Accessing Branch/Plant Constants - Page 3

Alternatively, you can access Branch/Plant Constants - Page 3 from the Bulk Stock Management Setup menu. Use this selection when the default information on Branch/Plant Constants - Page 1 and Page 2 has already been set up.

Set Up Depot Locations

Setting Up Depot Locations



From Inventory Management (G41), enter 29
From Inventory System Setup (G4141), choose Define Warehouse Locations

After you define the location format specifications for your depots, you set up locations, such as tank farms, for the depots. The system stores the locations you define in the Location Master table (F4100). All programs that require location specifications use this table to verify locations.

In addition to setting up your physical locations for the depots, you need to set up logical locations. The logical location stores the gains and losses for each product resulting from the various stock movements. The system records gains and losses in the Gain/Loss Transactions table (F41512).

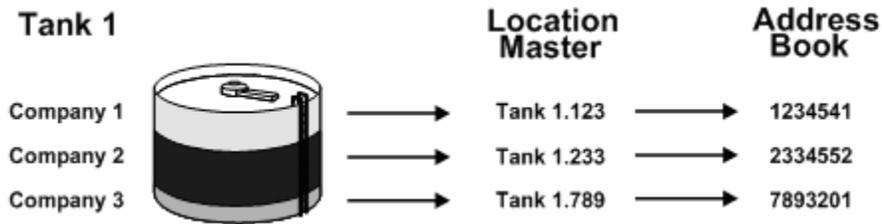
You set up the logical location in the Location Master table with no item location records and no associated tank. Therefore, if you search for inventory by location, the system does not display the inventory from the logical location, because there are no item/location records. Most users set up a separate logical location for each product in the depot. For commingled stock (product with multiple owners), set up a logical location at the owner level.

As part of setting up a depot location, you must assign a name to the location. To name a location, identify the tank, or, if the tank has commingled stock, the tank and owner.

The name you assign can be the same as the tank ID. However, the location name can also designate the owner as well. Following are some typical conventions for naming locations:

Location	Description
TNK1A	Use this convention to identify a single tank that contains product with only a single owner.
TNK1C.Owner1 TNK1C.Owner2	Use this convention to identify a single tank that contains commingled stock. The period (.) between the tank ID and the owner is the separator character you defined when you set up the depot constants.
* (a blank location)	Use an asterisk (*) in the Location field to define a blank location. The system uses a blank location for the initial soft commit when you enter sales orders.

The following diagram illustrates a tank with commingled stock and the relationship between the tank, location, and customer number information.



You can set up tanks as commingled for duty or as commingled for duty and custody. For a tank commingled for duty set up the combination of Tank/Duty status as a valid location. For a tank commingled for duty and custody, set up the locations for each valid combination of owner/duty status.

Before You Begin

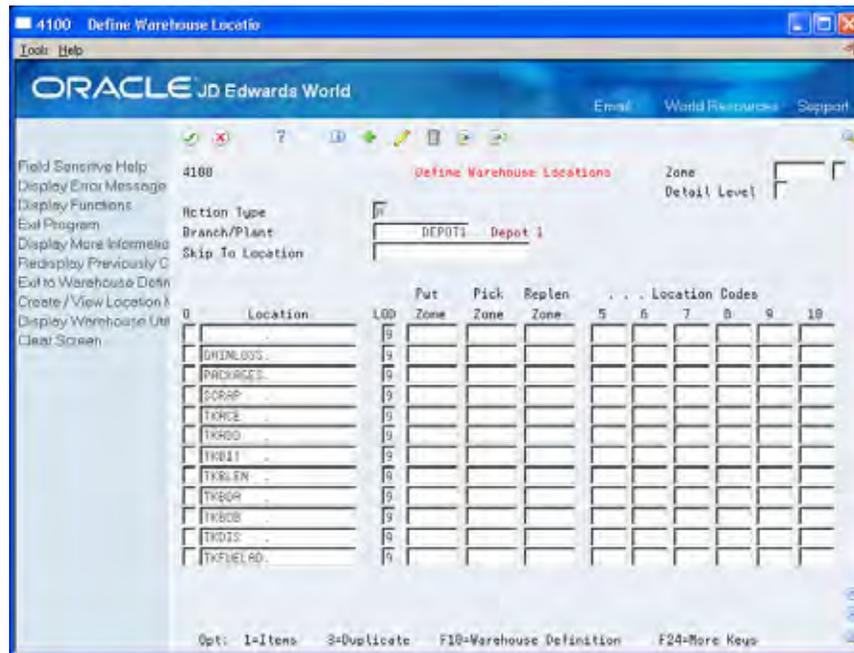
- Define the format specifications for locations. See *Defining Location Format Specifications (P41204)*.

See Also

- *Setting Up Warehouse Locations (P4100) in the Inventory Management Guide*

To set up depot locations

On Define Warehouse Locations



1. Complete the following fields:

- Branch/Plant
 - Location
2. Complete the following optional field:
- Level of Detail

Field	Explanation
Location	<p>A code that identifies inventory locations in a branch/plant. You define the format of the location identifier by branch/plant.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>A location format is comprised of elements and, optionally, a separator character. Elements represent more specific locations in a branch/plant. If the tank contains commingled stock, include the separator character defined on Branch/Plant Constants - Page 2 and identify the owner.</p> <p>The total length of all elements in this field, including separators, cannot exceed 20 characters. The location for a single tank can contain up to the number of characters identified in the Length of Tank/Aisle field on Branch/Plant Constants - Page 2.</p> <p>The owner ID can contain up to the number of characters identified in the Length of Owner/Bin field on Branch/Plant Constants - Page 2.</p> <p>If you leave this field blank and do not use a separator character, the system displays the location as an asterisk. If you use a separator character, the system displays the location with the correct number of spaces for each element, followed by the separator character.</p>
LOD	<p>A code that summarizes or classifies locations and provides a hierarchy of locations for review purposes. For instance, you can assign aisles to level 3, and individual racks within the aisle as level 4.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>Use the Detail Level field to specify the beginning level of detail that you want the system to display.</p> <p>Use the Level of Detail field in the lower portion of the form to identify the level of detail for the location.</p>

What You Should Know About

Deleting locations

You cannot use the D action code to delete locations in a depot. To delete a location, you must enter a C action code and clear the information in all location detail lines you want to delete.

8 Standard Unit of Measure Conversions

Overview to Standard Unit of Measure Conversions

Objectives

To set up standard unit of measure conversions for bulk items

About Standard Unit of Measure Conversions

You must set up the unit of measure conversions that will apply to each item. Setting up standard unit of measure conversions allows you to enter items in different units of measure. The system converts them to one standard unit of measure to accurately account for inventory.

For bulk products, standard unit of measure conversions allow the system to calculate standard volume.

See Also

- *Setting Up Standard Units of Measure (P41003) in the Inventory Management Guide*

Set Up Standard Conversions for Bulk Items

Setting Up Standard Conversions for Bulk Items

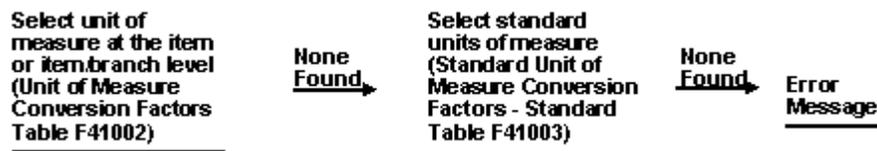
	From Inventory Management (G41), enter 29 From Inventory System Setup (G4141), choose Standard Units of Measure
-----------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------

You set up standard unit of measure conversions for conversions that are constant. For example, if 100 centimeters always equals 1 meter, you set this up as a standard unit of measure conversion.

To set up conversions, define all common volume-to-volume and weight-to-weight conversions that your company needs for bulk item transactions. You can also set up volume-to-weight conversions for bulk items.

Whenever a conversion is needed for recording a transaction, the system uses standard unit of measure conversions if it is unable to find item-specific conversions. The system stores standard conversions in the Unit of Measure Conversion Factors - Standard table (F41003).

The system processes transactions according to the following hierarchy of conversion factors:



No special logic in the program keeps you from creating conflicting conversion factors, so use care when setting them up.

You can set up an unlimited number of conversion factors. However, you must set up conversion factors that calculate each unit of measure back to the primary unit of measure, for example, from pallets, to cartons, to boxes, to eaches.

The following is an example of valid conversions:

- 1 BX = 2 EA
- 1 CR = 2 BX
- 1 PL = 2 CR

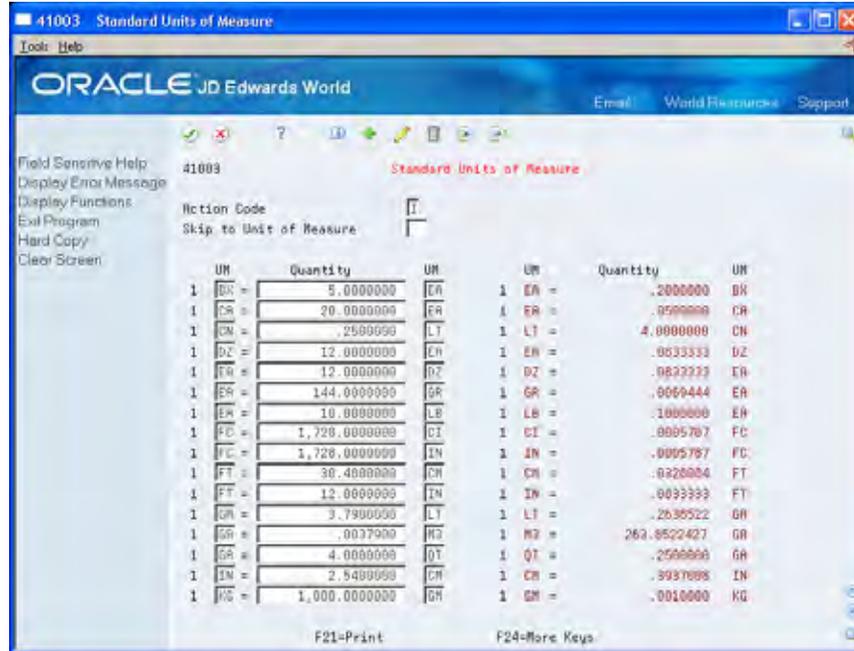
See Also

- *Setting Up Unit of Measure Conversions by Bulk Item (P41002)*

- *Appendix B - Unit of Measure Conversions*

To set up standard conversions for bulk items

On Standard Units of Measure



Complete the following required fields:

Unit of Measure

Quantity

Unit of Measure

Field	Explanation
UM	A user defined code (system 00/type UM) that identifies the unit of measurement for an amount or quantity. For example, it can represent a barrel, box, cubic yard, gallon, an hour, and so on.
	<i>Form-specific information</i>
	Enter the unit of measure for which you will set up a conversion factor, and the unit of measure that the quantity represents.

Field	Explanation
Quantity	<p>The factor that the system uses to convert one unit of measure to another unit of measure.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>Enter the conversion factor, or numeric quantity. The system uses the conversion factor during various inventory transactions to convert the previous unit of measure to another unit of measure. The system stores all conversion factors in a table for automatic conversion under program control.</p>

What You Should Know About

Setting up volume-to-weight conversions

To perform volume-to-weight conversions for bulk items:

- Set up conversion factors from cubic meters to all other units of measure used for volume calculations. You must use M3 for cubic meters.
- Set up a unit of measure conversion from kilograms to all other units of measure used for weight calculations. You must use KG for kilograms.

Deleting a conversion factor

To delete a conversion factor, use the C action code and clear the complete line you want to delete. Using a D action code clears the entire table.

9 Bulk Item Setup

Overview to Bulk Item Setup

Objectives

- To set up basic information the system needs to process transactions for bulk items
- To define the default units of measure and set up unit of measure conversions for each bulk item
- To define the default temperature and density values for each item
- To set up basic item information at the depot level
- To define the primary depot location and assign a lot number
- To define all cost methods specific to a bulk item

About Bulk Item Setup

When you set up an item, you define basic information about the item and specify how the system should process transactions for the item. Setting up a bulk item provides the item-level default values used throughout the various bulk transaction processing programs. In addition, you set up item information specific to a depot.

Complete the following tasks:

- Set up a bulk item
- Set up item information by depot

Set Up a Bulk Item

Setting Up a Bulk Item

You set up a bulk item by defining the basic information that the system uses to process transactions. This basic information includes:

- Item number and description
- Price and cost rules
- Availability and inventory commitment rules
- Item-specific system messages

Complete the following tasks:

- [Setting Up Basic Bulk Item Information](#)
- [Defining Default Units of Measure for Bulk Items](#)
- [Setting Up Unit of Measure Conversions by Bulk Item](#)
- [Defining Item Temperature and Density](#)

You can set the processing options to display certain forms automatically when you enter information. Otherwise, you can choose the forms you need from Item Master Information.

See Also

- *Entering Item Master Information (P4101)* in the Inventory Management Guide

Setting Up Basic Bulk Item Information



From Inventory Management (G41), choose Inventory Master/Transactions
From Inventory Master/Transactions (G4111), choose Item Master Information

Set up the basic item information, such as stocking information and pricing groups that the system needs to process transactions for stock and non-stock items.

To set up basic bulk item information

On Item Master Information

1. Complete the following fields:
 - Product Number
 - Description
 - Stocking Type
 - G/L Classification
 - Line Type
 - Bulk/Packed Flag
2. Complete the following optional fields:
 - Item Number
 - Catalog Number
 - Search Text
 - Unit of Measure
 - Item Price Group

- Inventory Cost Level
- Basket Reprice Group
- Sales Price Level
- Order Reprice Group
- Purchase Price Level
- Dispatch Group
- Kit Pricing Method
- Backorders Allowed
- Serial Number Required
- Check Availability Y/N
- Lot Status Code
- Shelf Life Days
- Lot Process Type
- ABC Codes

Field	Explanation
Bulk/Packed Flag	<p>A code that indicates if the item is a bulk liquid product. If it is a bulk product, you must perform temperature and density/gravity conversions. To record the movement of bulk products, you must use forms designed specifically for bulk products. If you try to record movement using standard inventory forms, the system prevents the movement. Valid values are:</p> <p>P Packaged</p> <p>B Bulk liquid</p> <p>If you leave this field blank, the system uses P.</p>
Dispatch Group	<p>A user defined code that identifies the dispatch group. A dispatch group is a grouping you make for products according to the physical characteristics that are important when storing and transporting those products.</p> <p>During the trip building process, the system checks if the dispatch group for the item and the vehicle are compatible. The system only allows products belonging to the allowed dispatch groups to be assigned to the vehicle.</p>
Check Availability Y/N	<p>This field controls whether availability checking is performed throughout the Sales Order Management system. You might want to check availability for some items. For other items, you can assume that an adequate supply is available. Valid values are:</p> <p>Y Check availability</p> <p>N Do not check availability</p>

What You Should Know About

Copying from an existing item	You can use an existing item setup as a model for a new item to speed entry. Locate an item previously entered, add the new item, and complete any of the information specific to your new item.
Deleting an Item Master Information record	You cannot delete an item record if the item is referenced as an Item Branch/Plant record, Bill of Material item, or Item Cross-Reference.

Processing Options

See [Item Master Revisions \(P4101\)](#).

Defining Default Units of Measure for Bulk Items

	From Inventory Management (G41), choose Inventory Master/Transactions From Inventory Master/Transactions (G4111), choose Item Master Information
-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------

Each item in the Item Master table can have several units of measure associated with it for different situations. For example, you can purchase and ship an item in cases, stock it in units (eaches), and sell it in dozens. The system retrieves the item-level units of measure throughout the Inventory Management and Sales Order Processing systems. You need to define the units of measure associated with each item.

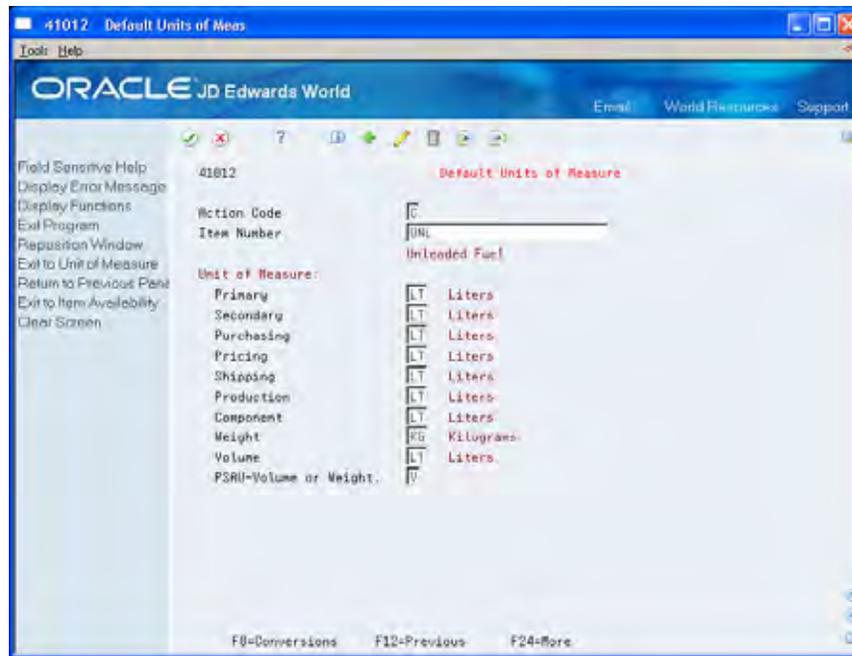
Before You Begin

- Add an item to the Item Master table (F4101). See *Setting Up Basic Bulk Item Information*.
- Set up standard unit of measure conversions. See *Setting Up Standard Conversions for Bulk Items*.

To define default units of measure for bulk items

On Item Master Information

1. Access Default Units of Measure.



2. On Default Units of Measure, complete the following required fields:

- Primary
- Weight
- Volume
- PSAU - Volume or Weight

Field	Explanation
Primary	<p>A user defined code (system 00, type UM) that identifies the unit of measure that the system uses to express the quantity of an item, for example, EA (each) or KG (kilogram).</p> <p><i>Form-specific information</i></p> <p>This is the primary stock accounting unit (PSAU) of measure that the system uses to store all inventory. If you change the primary unit of measure, the conversion factors in the item-level conversion table will no longer be valid.</p> <p>The default for this field is the unit of measure that you specify for the item on Item Master Information.</p>
Weight	<p>A user defined code (system 00/type UM) that identifies the unit of measure that the system uses to display weight for this item. You can specify ounces, grams, kilograms, and so on, as weight standards. The system uses this unit of measure for the item or overrides it for an individual item or container.</p> <p><i>Form-specific information</i></p> <p>The default for this field is the weight unit of measure you specify in processing options for Item Master Information.</p>

Field	Explanation
Volume	A code (system 00/table UM) that indicates the unit of measure by metric conversion for ambient volume. For example, the unit of measure code for a gallon might be GL, or for a liter might be LT.
PSAU-Volume or Weight	Indicates whether the primary stock accounting unit of measure is in volume or weight. This field only appears if the item is designated as a bulk product in the Item Master Information table. Valid values are: V Volume W Weight If you leave this field blank, the system uses V.

What You Should Know About

Entering additional units of measure You can enter additional units of measure to the user defined code table (00/UM). To do so, verify the special handling code in the detail area of User Defined Codes Revisions. The weight and volume units of measure must have a special handling code of W (weight) or V (volume). The weight-to-volume conversion process must be able to determine whether to treat a unit of measure as weight or volume.

See Also

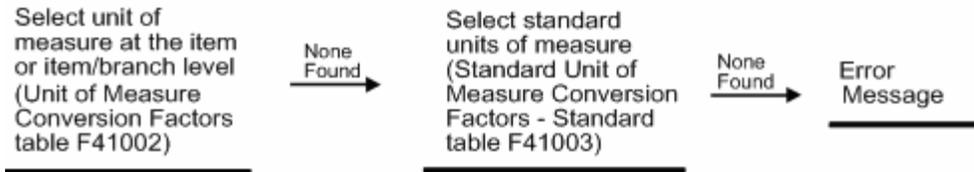
- *About User Defined Codes for Bulk Stock* for information on revising user defined code tables

Setting Up Unit of Measure Conversions by Bulk Item

	From Inventory Management (G41), choose Inventory Master/Transactions From Inventory Master/Transactions (G4111), choose Item Master Information
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In addition to the standard unit of measure conversions, you need to set up unit of measure conversions that are item-specific. For example, a drum of additive might have a different conversion factor than a drum of oil. You set up conversions that are unique for an item at the item or item branch/plant level. The system stores this information in the Unit of Measure Conversion table (F41002). If you do not set up unit of measure conversions by item, the system uses the standard unit of measure conversions (F41003).

The system processes transactions according to the following hierarchy of conversion factors:



You can set up an unlimited number of conversion factors. However, you must set up conversion factors that calculate each unit of measure back to the primary unit of measure, for example: from pallets, to cartons, to boxes, to eaches.

The following is an example of valid conversions:

- 1 BX = 2 EA
- 1 CR = 2 BX
- 1 PL = 2 CR

Before You Begin

- Add an item to the Item Master table (F4101). See *Setting Up Basic Bulk Item Information*.

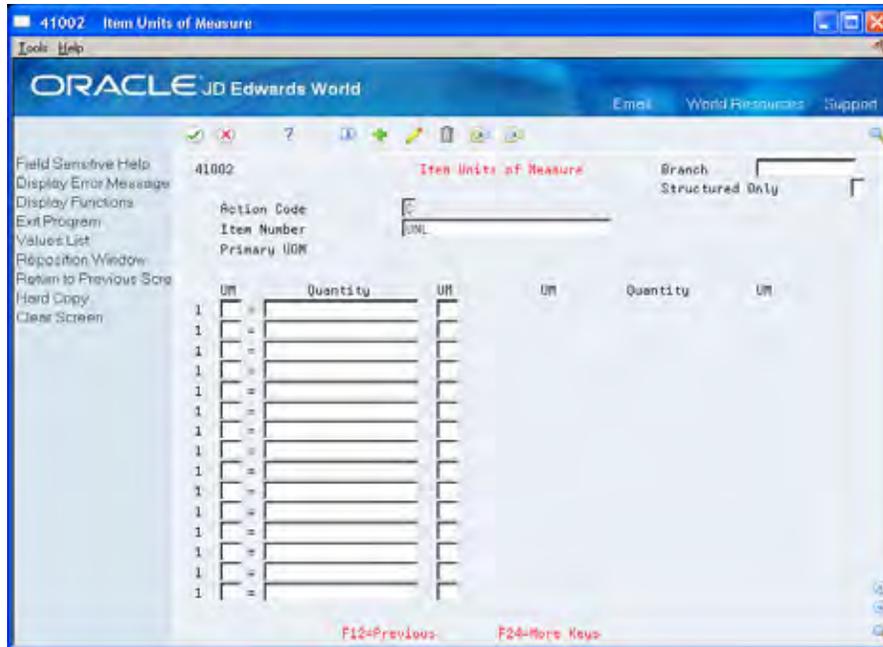
See Also

- *Setting Up Standard Conversions for Bulk Items (P41003)*
- *Appendix B - Unit of Measure Conversions*

To set up unit of measure conversions by bulk item

On Item Master Information

1. Access Default Units of Measure.
2. On Default Units of Measure, choose Conversions.



3. On Item Units of Measure, complete the following required fields:

- Unit of Measure
- Quantity
- Unit of Measure

What You Should Know About

Fill, repack, and decant movements

If you record fill, repack, and decant stock movements for a bulk item, you must also set up unit of measure conversions for the package quantity, for example, 1 DR (drum) = 209 LT (liters).

Defining Item Temperature and Density

	From Inventory Management (G41), choose Inventory Master/Transactions From Inventory Master/Transactions (G4111), choose Item Master Information
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------

You must define the default values by item that the system uses for temperature, density, and measurement. In addition, you specify the density and temperature tables to use for each item.

When you enter a transaction, the system verifies that the temperature or density that you enter is within the range specified by the selected table for the item. The system uses the following temperature and density tables for most bulk products. Allowable ranges are shown for each table. Use table D4311 for asphalt and bitumen products.

Table	Temperature Range
24B	0 to 300 F
54B	-18 to 150 C
54C	-18 to 150 C
54D	-20 to 150 F
LPG	-50 to 50 C
D4311	Table 1 1 to 500 F Table 2 -25 to 275 C

Table	Density Range
23B	.6535 to 1.0750 Relative Density - 4 decimal places
53B	653 to 1075 Absolute Density - 1 decimal place
53D	800 to 1164 Absolute Density - 1 decimal place
LPG	.5000 to .6530 Relative Density - 4 decimal places
D4311	Up to 14.9 API specific gravity 15.0 to 34.9 API specific gravity

See Also

- *Working with ASTM Tables* for information on the D4311 density tables for asphalt and bitumen products

To define item temperature and density

On Item Master Information

1. Access Bulk Product Information.

Field	Value
Action Code	T
Item Number	JUNL
Product Group	Unleaded Fuel Automotive Engine Fuel
Requires Temp Conversion	Y
Density Table	548 KG/M3 Gen-15C General Products
Density	745.0 R
Density Temperature	20.00 C
Density Minimum	65.7.0 R
Density Maximum	1075.0 R
Temperature Conversion Table	548 KG/M3 Gen-15C General Products
Reporting Temperature Table	548 KG/M3 Gen-15C General Products
Temperature Minimum	18.00 C
Temperature Maximum	150.00 C
Coefficient of Expansion	R
LPG Product	N
Calculate Vapour	N
LPG Vapour Temperature	
Reconcile	
Min Vol Correction Factor	
Max Vol Correction Factor	

2. On Bulk Product Information, complete the following optional field:
 - Product Group
3. If the item requires temperature conversion, complete the following required fields:
 - Requires Temperature Conversion
 - Density
 - Density Table
 - Temperature Conversion Table

See *About Bulk Stock* for information on converting volume for bulk products to volume at a standard temperature.

4. Complete the following fields or leave them blank to use the default values from the selected tables:
 - Density Temperature
 - Density Minimum
 - Temperature Minimum
 - Temperature Maximum
5. If the item is an LPG product, complete the following fields:
 - LPG Product
 - Calculate Vapour
 - LPG Vapour Temperature
6. Complete the following field or accept the default value:
 - Reconcile

Field	Explanation
Requires Temp Conversion	Indicates whether the item requires a temperature conversion. Valid values are: <ul style="list-style-type: none"> ▪ Y or 1 - Yes ▪ N or 0 - No (Default)
Density	Identifies your company's standard for density. You can also use this field for pack size and weight information.
Density Table	Identifies the density conversion algorithm to be used in calculations.
Reporting Temperature Table	Identifies the temperature table to use for reporting purposes. Fill in this field only if you use a table that is different than the Temperature Conversion table. This table is usually used for government reporting.
Reconcile	This code indicates whether the Item or Tank should be included in the reconciliation process as follows: <ul style="list-style-type: none"> ▪ T or 1 = Include this item in the Throughput Reconciliation process only ▪ O or 2 = Include this item or tank in the Operational Reconciliation process only ▪ B or 3 = Include this item in both the Throughput and Operational Reconciliation processes ▪ N or 0 = Do not include this item or tank in either of the Reconciliation processes

What You Should Know About

Adding an item	When adding an item, access Bulk Product Information from Item Master Information. When you use this access, you can only add or change information for that specific item.
Changing an item	If an item currently exists in the Item Master table (F4101), you can access Bulk Product Information from the Bulk Stock Management Setup menu.
Deleting an item	You cannot delete an item from Bulk Product Information. You can delete items only from Item Master Information.
Using a different temperature table for reporting purposes	You can use a different temperature table for reporting purposes. Specify this table in the Reporting Temperature Table field. This might be necessary for government reporting purposes.

Set Up Item Information by Depot

Setting Up Item Information by Depot

As part of your bulk item setup, you must set up item information specific to a depot (branch/plant), such as stocking information, primary locations, cost methods, and pricing groups.

Complete the following tasks:

- [Setting Up Basic Item Information by Depot](#)
- [Defining a Primary Depot Location](#)
- [Defining Cost Methods for Bulk Items](#)
- [Setting Up Additional Bulk Item Information](#)

Before You Begin

- Add or locate an item on the Item Master Information form. When you access Item Branch/Plant Information and specify the depot for which you want to complete item information, the item and depot you specify provides the default values for the next form or window you access.

See Also

- *Entering Branch/Plant Information (P41026) in the Inventory Management Guide*

Setting Up Basic Item Information by Depot

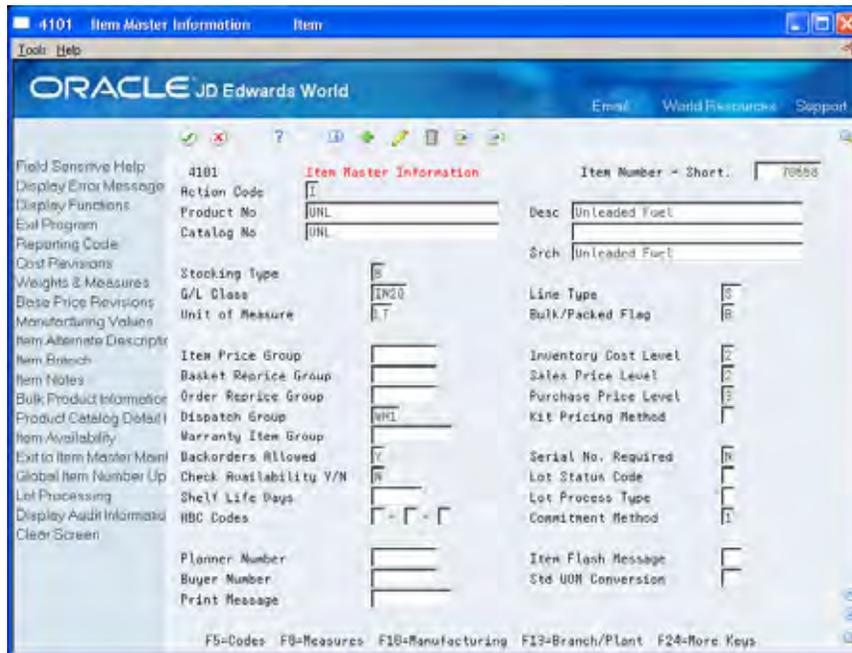
	From Inventory Management (G41), choose Inventory Master/Transactions From Inventory Master/Transactions (G4111), choose Item Master Information
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You must set up item information, such as stocking information and pricing groups, specific to a depot. This system stores this information in the Item Branch table (F4102).

The system retrieves item information as follows:



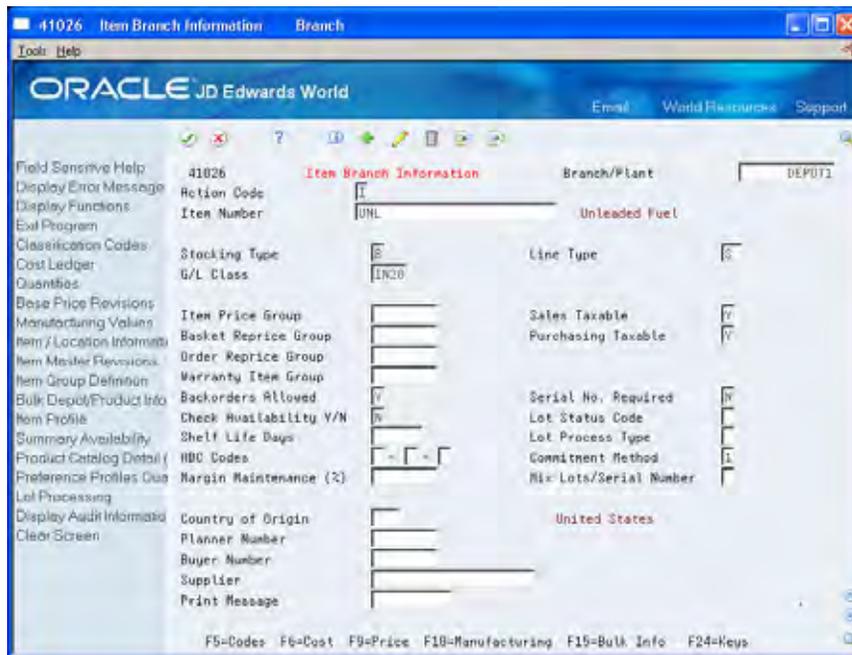
When processing transactions, the system retrieves item information specific to a depot from the Item Branch table. If none is found, the system retrieves item information from the Item Master table.



To set up basic item information by depot

On Item Master Information

1. Access Item Branch/Plant Information.



2. On Item Branch Information, complete the following field:

- Branch/Plant
3. Complete the following optional fields specific to a branch/plant:
- Sales Taxable
 - Purchasing Taxable
 - Margin Maintenance
 - Supplier
 - Print Message

What You Should Know About

- Deleting an item from Item Branch Information** To delete an item from Item Branch Information, verify the following:
- All associated balances for the item must be zero.
 - All on-hand balances, backordered quantities, and any commitments must be transferred or satisfied.
 - The Average Cost Work table (F41051) must not contain any transactions for the item and branch.
- If the above requirements have been met, the system deletes the records from the following tables:
- Cost Ledger (F4105), if the cost level is 2 or 3
 - Item Location (F41021)
 - Item Branch (F4102)

Processing Options

See [Branch/Plant Item Information \(P41026\)](#).

Defining a Primary Depot Location

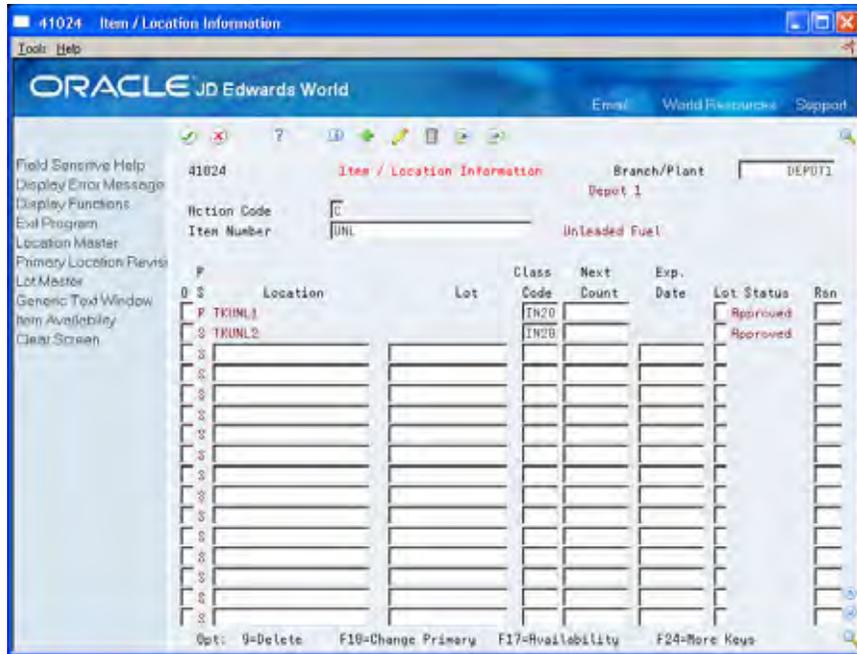
	From Inventory Management (G41), choose Inventory Master/Transactions From Inventory Master/Transactions (G4111), choose Item Master Information
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You can define a primary location and assign a lot number when you add an item branch/plant record.

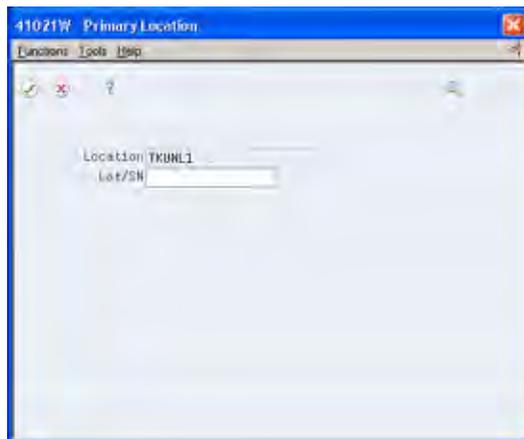
To define a primary depot location

On Item Master Information

1. Access Item Branch/Plant Information.
2. On Item Branch Information, access Item/Location Information.



3. On Item/Location Information, accept the information to access the Primary Location window.



4. On the Primary Location window, complete the following fields:
 - Location
 - Lot

3. On the Cost Revisions window, complete the following fields:
 - Sales Inventory
 - Purchasing
4. Enter costs for each cost method in the following field:
 - Unit Cost

What You Should Know About

Deleting cost methods

If you delete the Sales/Inventory cost method, a warning appears, indicating that the inventory value will drop to zero. The system does not delete the cost record, but updates it to a zero cost.

Changing the sales/inventory cost method

If you change the Sales/Inventory cost method, the system creates General Ledger and Item Ledger transactions to reflect the change.

Displaying cost methods

You can set processing options to display the following formats:

- One cost method at a time, which also displays all locations and lots for the item
- Multiple cost methods per item

Processing Options

See [Item Cost Revisions \(P4105\)](#).

Setting Up Additional Bulk Item Information

	From Inventory Management (G41), choose Inventory Master/Transactions From Inventory Master/Transactions (G4111), choose Item Master Information
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You need to set up additional information by depot that is specific to bulk items. The information includes additional volume conversion information, automated depot processes, and blending and filling categories.

To set up additional bulk item information

On Item Master Information

1. Access Item Branch/Plant Information.
2. On Item Branch Information, access Bulk Depot/Product Information.

3. On Bulk Depot/Product Information, complete one or more of the following fields or accept the default values:

- Branch/Plant
- Strategic Volume/Unit of Measure
- Hydrometer Correction
- Air Correction
- Gantry/Load Rack Flag
- Auto Batch Blend
- Auto Warehouse
- Replenishment Type
- Blend Category
- Fill Category
- Reconcile

Field	Explanation
Strategic Volume	Identifies the government-mandated, strategic stock level assigned to the depot for a specific product. The system displays a warning message when the stock level falls below government-required minimums.

Field	Explanation
Hydrometer Correction	<p>Indicates whether this product must include the appropriate stem correction for the thermal expansion of the glass hydrometer. Valid values are:</p> <ul style="list-style-type: none"> ▪ Y or 1 (Yes) ▪ N or 0 (No) <p>If you leave this field blank, the system uses N (No).</p>
Air Correction	<p>Indicates if an air correction must be applied in the volume-to-weight conversion. The weight in air of a liquid differs from its mass (weight in a vacuum) because of the effects of air buoyancy. Thus, the calculation changes slightly if an air correction is required. Valid values are:</p> <ul style="list-style-type: none"> ▪ Y or 1 (Yes) ▪ N or 0 (No) <p>If you leave this field blank, the system uses N (No).</p>
Gantry/Load Rack Flag	<p>Indicates whether a gantry (loading rack) is used. Valid values are:</p> <ul style="list-style-type: none"> ▪ Y or 1 - Yes ▪ N or 0 - No <p>If you leave this field blank, the system uses N (No).</p>
Auto Batch Blend	<p>Indicates if this product at this depot will be used by an automated batch blending system. Valid values are:</p> <ul style="list-style-type: none"> ▪ Y or 1 (Yes) ▪ N or 0 (No) <p>If you leave this field blank, the system uses N (No).</p>
Auto Warehouse	<p>Indicates if this product at this depot will be used by an automated warehouse system. Valid values are:</p> <ul style="list-style-type: none"> ▪ Y or 1 (Yes) ▪ N or 0 (No) <p>If you leave this field blank, the system uses N (No).</p>
Replenishment Type	<p>Indicates the method of supply, for example, blended product, purchased product, or filled product. The Replenishment Type field is also used in conjunction with the blend and fill categories. A blended product requires a blend category. A filled product requires a fill category. A purchased product prevents the use of either a blend or fill category. Valid values for replenishment type are:</p> <ul style="list-style-type: none"> ▪ B = Blended products ▪ F = Filled products ▪ P = Purchased products

Field	Explanation
Blend Category	A user defined code (system 39/type BC) that indicates the valid product groups (or categories) that can be put into a specific blending tank. It is used to specify compatible or incompatible groups for blended stock items and blending equipment (tanks).
Fill Category	A user defined code (system 39/type FC) that identifies the different filling categories. Fill categories are used to specify compatible/incompatible groups for filled stock items and filling equipment. This field also identifies the different types of fillings (for example DRUM, TIN) and matches a filling of a particular stock item against the equipment (filling line) used.

What You Should Know About

Updating the Reconciled Thru Date	When you access Depot/Product Information, the system updates the Reconciled Through Date based on the Operational Reconciliations program.
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10 Tank and Flow Meter Setup

Overview to Tank and Flow Meter Setup

Objectives

- To set up the structural tank information that the system uses to process transactions
- To set up a blending tank and define the allowed blending categories
- To set tank information, such as discharge and filling rates, that the system needs to calculate volume and manage depot transactions
- To set up the strappings information for all tanks within a depot
- To define the default temperature and density specific to a tank
- To specify the allowed product groups and sequence restrictions within tanks
- To set up flow meters for a depot

About Tank and Flow Meter Setup

A depot consists of tanks that hold various products. You must define the tanks, allowed products, and meters at the depot location. The system uses this information to calculate volumes and optimize tank usage.

Complete the following tasks:

- Set up a tank
- Define tank temperature and density
- Define product groups
- Set up a flow meter

Before You Begin

- Set up the depot and tank locations. See *Setting Up Depot Constants for Bulk Products*.
- Set up the items that will be placed in the tanks. See *Setting Up a Bulk Item*.

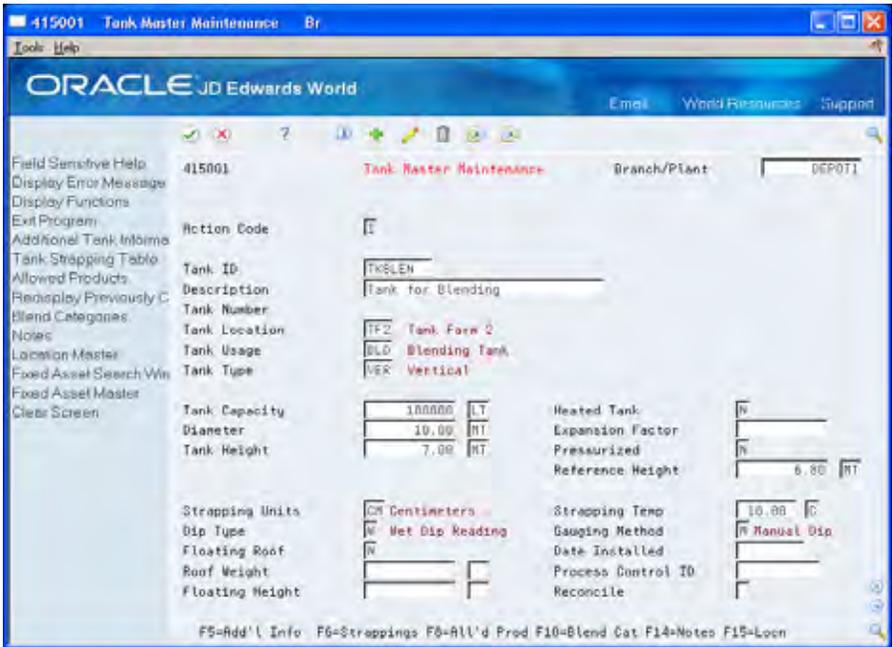
Set Up a Tank

Setting Up a Tank

To set up a tank, you specify the structural information about the tank, such as capacity, height, and tank specifications. The system uses this information to calculate volume and optimize tank usage.

Complete the following tasks:

- [Setting Up Basic Tank Information](#)
- [Setting Up a Blending Tank \(Optional\)](#)
- [Setting Up Additional Tank Information](#)
- [Setting Up Tank Strapping Information](#)



Setting Up Basic Tank Information



From Bulk Stock Management (G4150), enter 29
From Bulk Stock Management Setup (G415041), choose **Tank Master Maintenance**

You must define the basic structural information about a tank. The system retrieves this information when processing transactions to calculate volume. This information is stored in the Tank Master table (F41500). If your tanks are set up as fixed assets, you can record the asset number while setting up basic tank information. You can also record whether a tank is heated and requires an expansion correction factor to calculate volume, such as for tanks containing asphalt or bitumen products. If you set up a heated tank, you must also record an expansion correction factor and a strapping temperature.

See Also

- *Creating an Asset Master Record in the Fixed Assets Guide*

To set up basic tank information

On Tank Master Maintenance

1. Complete the following fields:
 - Branch/Plant
 - Tank ID
 - Tank Number
 - Tank Location
 - Tank Usage
 - Tank Type
 - Tank Capacity
 - Unit of Measure
 - Tank Height
 - Unit of Measure
 - Reference Height
 - Unit of Measure
 - Strapping Units
 - Dip Type
 - Gauging Method
2. Complete any or all of the following optional fields:
 - Heated Tank
 - Diameter
 - Expansion Factor

- Pressurized
- Strapping Temperature
- Floating Roof
- Date Installed
- Roof Weight
- Process Control ID
- Floating Height
- Reconcile

Field	Explanation
Tank ID	<p>An 8-character field identifying the tank as defined on the Branch/Plant Constants form.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>Note: Do not enter a tank and owner ID. The information on this form applies only to the entire physical tank.</p>
Tank Number	Identifies a tank in the Bulk Stock Management System. This unique number is assigned by the system.
Tank Location	A user defined code (system 39/type TL) that indicates the tank's location, for example, Tank Farm 1, Tank Farm 2, and so forth.
Tank Usage	<p>A user defined code (system 39/type TU) that identifies how the tank is used. A blending tank should be identified with a code that begins with the letter "B." If the tank is a blending tank, the Blend Categories Window appears when you press Enter at tank setup time.</p> <p>Note: Blending tanks allow more than one product to be put in the tank. All other tanks can contain only one product, which is considered the current product.</p>
Tank Type	A user defined code (system 39/type TY) that indicates the physical shape of the tank and whether the tank is on scale.

Field	Explanation
Tank Capacity	<p>The total volumetric storage capacity of a tank. Tank Capacity consists of two fields. The first is the total storage capacity of the tank. The second is the unit of measure (UM) associated with the capacity measurement. The capacity is checked while receiving products and recording general stock movements. If you enter a value that is greater than the tank's capacity, the system displays an error message and will not allow you to record the transaction.</p> <p>The system uses the unit of measure as the basic unit of measure for the tank. All other volume units of measure associated with the tank must match this unit of measure.</p> <p>If the dip type is slip tube or normal dip, then the Tank Capacity is an informational field only. If the dip type is roto percent (for LPG bullets/spheres only), then Liquid Volume equals Roto % multiplied by Gross Capacity. Vapour Space equals Gross Capacity minus Liquid Volume.</p>
Tank Height	Identifies the distance from the bottom to the top of a tank and the unit of measure. These fields are display only fields.
Reference Height	Identifies the maximum dip height of the product within the tank, or the point from which ullages are to be converted to height of liquid. The reference height must be below tank height.
Strapping Units	A user defined code that identifies strapping table increments (for example, centimeters, millimeters, half inches, or quarter inches). If the depot is in U.S. increments, you must enter FF in this field.
Dip Type	<p>A user defined code (system 39/type DP) that identifies the method of measurement that the system uses to calculate the volume from tank dips. Valid values are:</p> <ul style="list-style-type: none">▪ W = Wet Dip Reading▪ U = Ullage Dip Reading▪ R = Roto Gauge Percent Reading▪ S = Slip Tube Reading▪ E = Electronic Gauge Reading
Gauging Method	A user defined code that identifies the measuring method that the system uses to determine the quantity of liquid in the tank.
Expansion Factor	Factor used to calculate the volume of a product in relation to a heated tank.

Field	Explanation
Floating Roof	<p>Indicates whether the tank has a floating roof, and if so, whether a floating roof calculation is required. Valid values are:</p> <ul style="list-style-type: none"> ▪ Y or 1 = Floating roof - requires calculation. ▪ N or 0 = No floating roof. ▪ S or 2 = Floating roof - strappings already account for floating roof calculation (no calculations required). <p>If you enter Y or 1, the program requires roof weight and floating height entries.</p>
Roof Weight	<p>Identifies the unit of measure for the roof weight. If you use a unit of measure that is not equal to kilograms, you must set up a conversion between your unit of measure and kilograms in the Standard Unit of Measure Conversion program. The Roof Weight field is required if the Floating Roof field is set to Y or 1. This value is used to calculate the roof displacement correction.</p>
Process Control ID	<p>Identifies the process control system. You can identify one or more process control systems associated by depot, tank, or mode of transport. The system uses this field for downloads of automated gantry information.</p>
Reconcile	<p>This code indicates whether the Item or Tank should be included in the reconciliation process as follows:</p> <ul style="list-style-type: none"> ▪ T or 1 = Include this item in the Throughput Reconciliation process only ▪ O or 2 = Include this item or tank in the Operational Reconciliation process only ▪ B or 3 = Include this item in both the Throughput and Operational Reconciliation processes ▪ N or 0 = Do not include this item or tank in either of the Reconciliation processes

What You Should Know About

Deleting a tank record	When you delete a tank, the system automatically deletes the corresponding records in the Tank Strapping Table Maintenance (F41503) and Default Tank Information (F41508) tables.
Finding the fixed asset number	If your tanks are set up as fixed assets, when you add a tank, you can access the Asset Search and Location window to return the tank number. This is the item number in the Fixed Assets Master (F1201) table.

Accessing Fixed Asset Master

While you use the Tank Master Maintenance program, you can access the Fixed Assets Master program and locate or record fixed asset information, such as depreciation and accounting values, for the tank.

Setting Up a Blending Tank (Optional)



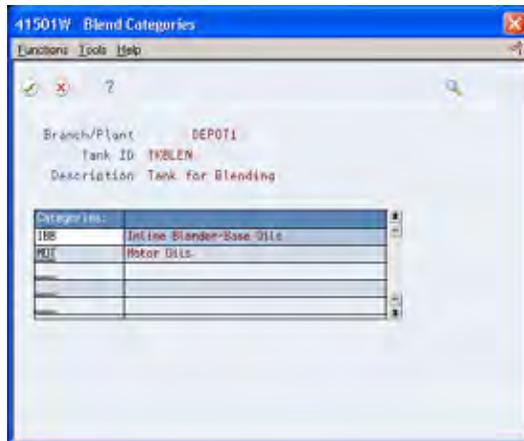
From Bulk Stock Management (G4150), enter 29
From Bulk Stock Management Setup (G415041), choose Tank Master Maintenance

A blending tank can hold more than one product. You set up a blending tank to define the blending categories that will be allowed in that tank.

To set up a blending tank

On Tank Master Maintenance

1. Follow the steps to set up a tank.
2. Enter the code for a blending tank in the following field:
 - Tank Usage
3. Access Blend Categories.



4. On Blend Categories, complete the following required field:
 - Categories

What You Should Know About

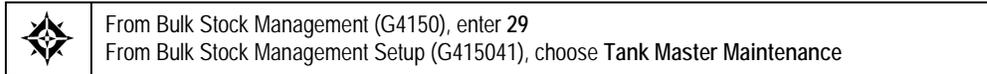
Deleting a category

Use the C action code and clear the Categories field to delete a category.

Adding a category

You can only add new categories on a blank line.

Setting Up Additional Tank Information



You must define additional information about a tank that the system needs to calculate volume and manage depot transactions. This information includes discharge and filling rates, tank status, and commingled stock.

If you set up a tank as carrying commingled stock, all transactions, such as general stock movements, load confirm, and disposition, require you to enter the owner of the product. All tanks for the product must be defined as commingled, since any could be the current tank at any time.

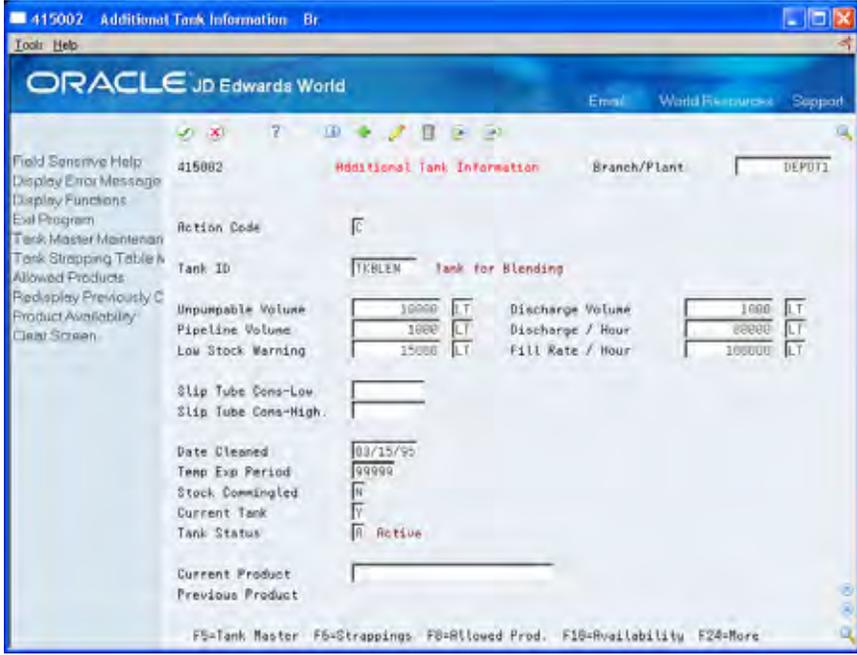
Before You Begin

- Set up the tank in the Tank Master table (F41500). See *Setting Up Basic Tank Information*.

To set up additional tank information

On Tank Master Maintenance

1. Access Additional Tank Information.



2. On Additional Tank Information, locate the tank.
3. Enter a C in the following field:
 - Action Code
4. Complete the following fields:

- Tank Status
 - Current Product
5. Complete one or more of the following optional fields:
- Unpumpable Volume
 - Discharge Volume
 - Pipeline Volume
 - Discharge/Hours
 - Low Stock Warning
 - Fill Rate/Hour
 - Date Cleaned
 - Temperature Expiration Period
6. Complete the following fields or leave blank to accept the default values:
- Temperature Expiration Period
 - Current Tank
7. If the tank contains commingled stock, complete the following field:
- Stock Commingled
8. Indicate a change.
9. Accept the entries.

Field	Explanation
Tank Status	Identifies whether the tank is active or inactive. A tank must have a status of active to assign product to it. A tank that has a status of inactive indicates that the tank is empty and not being used. Multiple tanks can be active for a product, but only one tank can be defined as the current, or default, tank. Valid values are: A Active I Inactive
Unpumpable Volume	This field displays the volume in the tank that is below the level of the discharge pipeline and, therefore, cannot be removed by the normal discharge pump. The system edits this volume during load confirmation, but it is not used when calculating tank dip volumes. The Unpumpable Volume quantity is used for information purposes only.

Field	Explanation
Current Product	<p>A number that the system assigns to an item. It can be in short, long, or 3rd item number format.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>Identifies the current product that the tank contains. When you enter a product, the system checks the current product associated with a tank. If the new product differs from the current product, you cannot enter it into the tank unless the quantity of the current product is zero. Also, when you enter a product, the system checks the Allowed Products matrix to determine if the product group that this product is attached to is allowed to enter the tank, based upon the tank's previous contents.</p> <p>If the tank is set up as a blending tank, there is no current product. You can enter any product.</p>
Discharge Volume	<p>Identifies the volume of the product in a tank's discharge pipeline. The system adds this value to obtain the total ambient volume.</p>
Pipeline Volume	<p>Identifies the volume of product held in the pipeline that is connected to the subject tank. The tank's content capacity includes the volume capacity of the pipeline. To reflect the total product volume in the tank and pipeline, Pipeline Volume is added to the observed (ambient) volume calculated on the Tank Dip form.</p>
Low Stock Warning	<p>Identifies the volume of product below which a low stock warning is issued. A low stock warning indicates that the volume is close to the safety stock level.</p> <p>Enter the quantity and unit of measure that the system uses to provide a low stock warning. This field information is used during the Load Confirm process. If the quantity being loaded will bring the tank to the low stock point, a "soft" error occurs. That is, the user can press Enter and continue with load confirm.</p>
Temp Exp Period	<p>The number of hours the tank temperature remains valid. This number is used to calculate the next expiration date/time on the Default Tank Information screen. It is also checked at load confirm time to ensure the default temperature reading is valid. Enter 99999, if there is no expiration (for example, stocks are stored at a third-party site).</p>
Current Tank	<p>Indicates whether this tank is the current tank used for product sales. Only one tank per product can be the current tank. Valid values are:</p> <ul style="list-style-type: none"> ▪ Y (Yes) or 1 ▪ N (No) or 0 <p>The default value is N.</p>

Field	Explanation
Stock Commingled	<p>A stock value that identifies the type of commingled stock. If any tank for a product contains commingled stock, you must set up all tanks for that product as containing commingled stock. You also use this field to divide product in the tank into two quantities. For example, enter a value if you want to separate duty-paid from unpaid product in the same tank. If the stocks are commingled, you must record all the product movements at the “owner” level. Valid values are:</p> <ul style="list-style-type: none"> ▪ Y or 1 - Stocks are commingled for custody ▪ N or 0 - Stocks are not commingled ▪ D or 2 - Stocks are commingled for duty ▪ B or 3 - Stocks are commingled for both custody and duty

What You Should Know About

Accessing Additional Tank Information from the menu	If you have already set up the tank in Tank Master Maintenance, you can choose Additional Tank Information directly from the Bulk Stock Management Setup menu to locate the tank and change information.
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Setting Up Tank Strapping Information

	<p>From Bulk Stock Management (G4150), enter 29 From Bulk Stock Management Setup (G415041), choose Tank Master Maintenance</p>
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You must set up the strappings information for the storage, blending, and holding tanks in a depot. The system uses tank strappings (reading height) when you record tank dips to convert tank dip readings to gross volumes.

For example, if you enter before and after dip readings in the Dip Volume Calculator program, the program uses the tank strappings information to calculate the volume.

You can enter information in both metric and U.S. measurements. The delimiter for U.S. measurements is the one you defined in the U.S. Increments Delimiter field on Branch/Plant Constants - Page 3.

Before You Begin

- Set up the tank in the Tank Master table (F41500). See *Setting Up Basic Tank Information*.

To set up tank strappings information

On Tank Master Maintenance

1. Access Additional Tank Information.
2. On Additional Tank Information, access Tank Strapping Table Maintenance.

Reading Height	Volume at this Point	Volume/Per Increment
10.00	266217	26621.60000
20.00	400729	13451.20000
30.00	566046	26621.70000
40.00	801457	13451.10000
50.00	999053	19759.60000
60.00	1200703	20173.60000
70.00	1392474	19169.10000
80.00	1598106	20562.20000
90.00	1792057	19475.10000
100.00	1998105	20524.80000

Total Tank Volume: 2000000 LT

3. On Tank Strapping Table Maintenance, complete the following fields for each strapping point:
 - Reading Height
 - Volume at this Point
 - Volume/Per Increment
4. Complete the following optional fields:
 - Strapping Chart ID
 - Strapping Date
 - Chart Prepared By
 - Initial Volume

Field	Explanation
Reading Height	This value is a linear measurement that represents either the depth of oil or free space (ullage) available in a tank.
Volume at this Point	The volume contained in the tank at this reading height. You can enter an amount or have the system calculate it. If you want the system to calculate the volume, you must enter information in the Volume/Per Increment field.

Field	Explanation
Volume/Per Increment	This value is the gradient above a strapping point in terms of volume increase per strapping unit. If you enter a value in this field, the system calculates the volume at this point.
Strapping Chart ID	Identifies the person responsible for the strapping. This field is for reference only.
Initial Volume	The volume of liquid below the zero reference point. The initial volume is added to the total tank volume. When taking a dip reading, this volume is added to the Volume at this point to arrive at the ambient value.

What You Should Know About

Correcting tank strapping information

You cannot change the data previously entered in the Reading Height and Volume fields.

To correct an entry, you must delete the line. Then, enter the correct reading on a new line.

Define Tank Temperature and Density

Defining Tank Temperature and Density



From Bulk Stock Management (G4150), enter 29
From Bulk Stock Management Setup (G415041), choose Default Tank Information

The system uses the default temperature and density specific to a tank to calculate volume and process stock movements. If you do not enter the temperature and density information when performing a stock movement, the system retrieves the default temperature and density for the tank from the Default Tank Information table (F41508).

Before You Begin

- Set up the tank. See *Setting Up a Tank*
- Set up the item. See *Setting Up a Bulk Item*
- Identify the item as the current product. See *Setting Up Additional Tank Information*

To define tank temperature and density

On Default Tank Information

415108 Default Tank Information Br

Look Help

ORACLE JD Edwards World

Email World Resources Support

Field Sensitive Help 415108 Default Tank Information Branch/Plant DEP01

Display Error Message

Display Functions

Exit Program

More Details

Multi-Tank Dip Reading

Redisplay Previously C

Previous Product

Next Product

Clear Screen

Action Code

Date(=M/d)/Time

Tank ID TH001

Product

Tank ID	Tank Temp	Tank Density	Density Temp	Cur Tank St.	Item Number
TH001	20.00	C	745.0	H	20.00

Opt: 6=Availability 9=Delete F8=Multi-tank F20=Next Product F24=More

1. Complete the following fields:

- Branch/Plant
- Tank ID
- Tank Temperature
- Tank Density
- Density Temperature

The Tank Status and Item Number fields appear.

2. Access the detail area.

The system calculates the temperature expiration date and time based on the temperature expiration period from Additional Tank Information.

3. Complete the following fields to calculate this information manually:
 - Temperature Expiration Date
 - Temperature Expiration Time

Field	Explanation
Tank Temp	This field is used to indicate the temperature of the product in the tank. The temperature type specified on the Branch/Plant Constants - Page 3 is the default value. The system checks this entry against the minimum and maximum temperature range.
Tank Density	The density of the product in the tank as determined by the laboratory sample. If you leave this field blank, the system uses the density type specified on Branch/Plant Constants - Page 3.

What You Should Know About

Changing current tank values

You can change the current tank value on the Default Tank Information form. This will change the current tank value defined on the Tank Master Maintenance form. For example, if you set the current tank field to Y (Yes) in the Tank Master Maintenance program, you can enter a N (No) in Default Tank Information. This changes the value in the Tank Master Maintenance form to N (No) and in the Tank Master table (F41500).

- Entering the date and time** If you enter the date and time, the system uses this information in all records added in all detail lines.
If you enter the date and time for each line in the detail area, you can display different information for each line.
- Deleting records** To delete a record, choose only the detail line for the tank you want to delete.

Processing Options

See [Default Tank Information \(P415108\)](#).

Define Product Groups

Defining Product Groups



From Bulk Stock Management (G4150), enter 29
From Bulk Stock Management Setup (G415041), choose **Allowed Products Matrices**

You must define the product groups that a tank or filling line can hold. You must also specify the order in which products can be put into the tank without requiring the tank to be cleaned. The system displays a warning message if you need to flush the tank prior to adding another product.

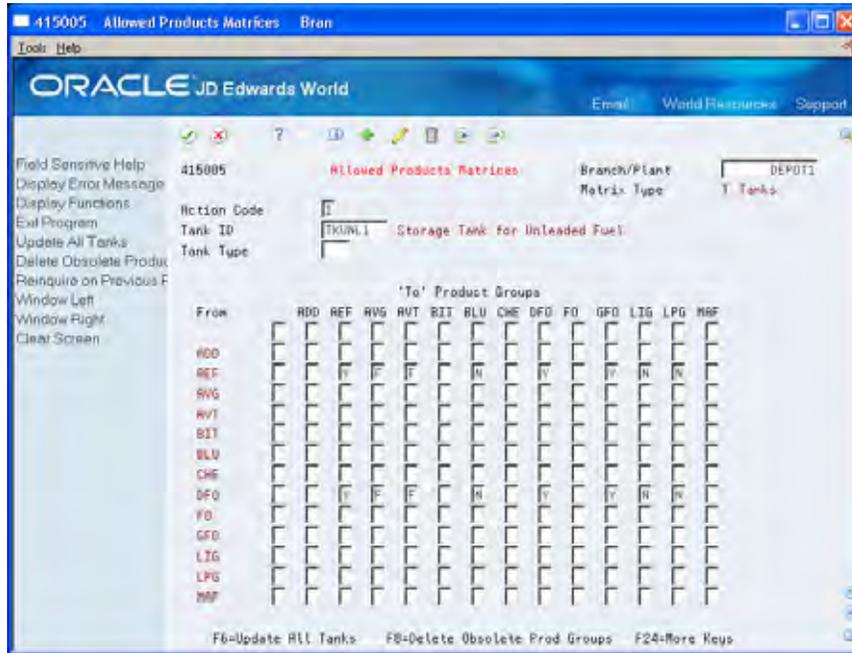
The system uses this information whenever you perform any of the following activities:

- Transfer product into the tank as part of a general stock movement
- Receive product into the tank
- Change the current product in the tank on the Additional Tank Information form

You can set up the product groups for individual tanks or by tank type, depending on your needs.

To define product groups

On Allowed Products Matrices



1. Complete the following field:
 - Branch/Plant
2. Complete one of the following fields:
 - Tank ID
 - Tank Type
3. For each “From” and “To” group, complete the following field:
 - Intersection Value

Field	Explanation
Intersection Value - Allowed Products 02	The designation of what product groups are allowed and in what order. The valid values are:
Y	Can fill the tank/line/vehicle with the “To” product after the “From” product. (Default)
F	Can fill the tank/line/vehicle with that product group, but have to flush the tank/line/vehicle first.
N	Do not allow “To” product to be placed in the tank/line/ vehicle after the “From” product.

What You Should Know About

Updating information for all tanks of the same type

If you set up the allowed products by tank type and then change the product matrix, you can use a function key to quickly update the information for all tanks of this type.

Deleting obsolete records

You cannot delete a matrix. However, you can use Delete Obsolete Matrix Records to delete obsolete records from the matrix. Obsolete records have a From or To group which has been removed from the user defined codes table for either the product or dispatch group. Obsolete records do not appear on the matrix, but remain in the system until you delete them.

Processing Options

See [Allowed Products Matrix - Tanks \(P415005\)](#).

Set Up a Flow Meter

Setting Up a Flow Meter



From Bulk Stock Management (G4150), enter 29
From Bulk Stock Management Setup (G415041), choose Meter Master Maintenance

You set up a flow meter to define such information as the current product, location, and calibration dates. The system uses this information during the throughput reconciliation process.

To set up a flow meter

On Meter Master Maintenance

1. Complete the following fields:

- Branch/Plant
- Meter Number
- Meter Status
- Current Product

- Meter Units
 - Unit of Measure
2. Complete the following optional fields or leave blank to accept the default values:
 - Date Last Calibrated
 - Throughput Since Last Calibration
 - Maximum Reading
 - Temperature Compensated
 - Load Rack Interface
 3. Complete one or both of the following optional fields:
 - Last Product
 - Date Installed

Field	Explanation
Meter Number	<p>Identifies the meter number.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>Enter the number that identifies the meter. If you leave this field blank, the Next Number program automatically assigns the next number.</p>
Meter Units	<p>Designates the number of meter units used to calculate the quantity that passes through the meter. Meter units can differ from the units used to calculate volume or weight. For example, one meter unit can equal three actual volumetric units.</p>
Date Last Calibrated	<p>The last date that the meter flow was tested and calibrated. Whenever this date is changed, the system resets the entry in the Throughput Since Last Calibration field to zero.</p>
Throughput Since Last Calibration	<p>Enter a valid number and the unit of measure in these fields. If you leave the first field blank, the system uses zero. You can enter values in these fields only during initial meter setup. After you have set up the meter, the total throughput is a rolling figure from the Meter Master table (F41506). As the system calculates volumes from closing readings, it adds them to the prior total to obtain a current figure for this record. If you change the date in the Date Last Calibrated field, the system clears this field.</p>
Maximum Reading	<p>The largest reading on the meter before it rolls back to one. If you leave this field blank, the system uses the value assigned in the data dictionary for this field.</p>

Field	Explanation
Temperature Compensated	Indicates whether the throughput volume is already at the standard temperature. If not, a temperature conversion is required. Valid values are: <ul style="list-style-type: none"> ▪ Y or 1 - Yes ▪ N or 0 - No
Load Rack Interface	Indicates whether the product is being loaded via a loading rack (gantry). Valid values are: <ul style="list-style-type: none"> ▪ Y (Yes) or 1 - Loading rack interface in place ▪ N (No) or 0 - Loading rack interface not in place

What You Should Know About

Changing current product	If you want to change the current product of an existing meter, you must enter a closing meter reading for the prior product.
Attaching notes	You can attach notes about the meter.

11 System Setup

Overview to System Setup

Objectives

To understand how to set up the controls that let you process bulk stock information

About System Setup

In order to work with the Bulk Stock Management system, you need to review or revise some basic system setup tables.

System setup includes:

- Understand AAIs for bulk stock
- Understand user defined codes for bulk stock
- Understand next numbers for bulk stock

Understand AAls for Bulk Stock

About AAls for Bulk Stock

You need to set up the automatic accounting instructions (AAls) for the Bulk Stock Management system. The AAls for bulk Stock Management identify the General Ledger (G/L) accounts that the system updates when recording transactions.

You must create AAls for each unique combination of company, document type, and G/L class code you anticipate using.

The following identifies the AAls used in the Bulk Stock Management system:

AAI	Description
4122	Provides the inventory offset account. Used by the General Stock Movements program.
4124	Provides the offset account for expense or cost of goods sold. Used by the General Stock Movements program
4152	Provides the inventory account used in the reconciliations process.
4182	Provides the physical gain/loss account. Used by the General Stock Movements and Reconciliations programs.
4184	Provides the work-in-process account to record the interim gain or loss on bulk items. Used by the General Stock Movements program.

The following illustrates the accounting transactions for these AAls.

Transaction	Description
Decreasing inventory	Debit AAI = 4182 Gain/Loss Credit AAI = 4152 Inventory
Increasing inventory	Debit AAI = 4152 Inventory Credit AAI = 4182 Gain/Loss

See Also

- *Setting Up AAls for General Accounting (P00121) in the General Accounting I Guide*

Understand User Defined Codes for Bulk Stock

About User Defined Codes for Bulk Stock

The User Defined Codes (UDCs) program allows you to establish and maintain a table that defines valid codes for various types of information. Codes are categorized by system and code type. You might need to review or revise codes for bulk Stock Management.

In addition, you need to define the user defined codes for the various document types used by the system.

The Bulk Stock Management system uses the following UDCs:

UDC	Description
Blending Categories (Type BC)	Identifies valid product groups that can be put into a specific blending tank.
Dispatch Group (Type DG)	Used by the Load and Delivery management system to group bulk products for dispatch.
Density Table (Type DN)	Indicates the density conversion algorithm to be used in calculations
Dip Type (Type DP)	Identifies the method of measurement when calibrating volumes form tank dips
Density Type (Type DT)	Identifies the type of density.
Fill Category (Type FC)	Identifies the different filling categories.
Gauging Method (Type GM)	Indicates the method used to measure product.
Meter Status (Type MS)	Indicates whether the meter is active or inactive.
Product Group (Type PG)	Identifies the line of products whose similarities allow them to be grouped.
Replenishment Type (Type RT)	Indicates the type of supply (blended product, purchased, filled, and so on).
Tank Status (Type ST)	Indicates whether the tank is active or inactive.
Strapping Units (Type SU)	Indicates the size of the strapping table increments (centimeters, millimeters, and so on).

UDC	Description
Tank Location (Type TL)	Identifies the location of the tank.
Temperature Type (Type TL)	Identifies the type of temperature (Celsius or Fahrenheit).
Temperature Conversion Table (Type TT)	Indicates which standard ASTM-IP-API table to invoke for calculation of standard stock accounting units.
Tank Usage (Type TU)	Indicates the primary usage for the tank (storage, blending, holding, and so on).
Tank Type (Type TY)	Identifies the physical shape of the tank (vertical, horizontal, and so on).

The following UDCs indicate document types for System 41B:

UDC	Description
Load Confirmed Sales (Type LC)	Include all of the codes for the document types for load-confirmed sales that will go through the meter.
Other Metered Outgoings (Type OM)	Include all document types for all other types of transactions that will go through the meter.
Non-Metered Outgoings (Type NM)	Include all document types for transactions that left the tank, but did not go through the meter.
Incomings (Type IN)	Identify the document types to include in the incoming transactions.
Outgoings (Type OT)	Identify all document types to include in the outgoing transactions.
Throughput Reconciliation (Type TR)	Identify any documents for which you must complete throughput reconciliation before completing operational reconciliation.

See Also

- *Working With User Defined Codes (P00051) in the Technical Foundation Guide*

Understand Next Numbers for Bulk Stock

About Next Numbers for Bulk Stock

The Next Numbers program controls the automatic numbering in many JD Edwards World systems. The program stores the increment for the next available number in the Next Numbers table (F0002) and automatically assigns the next available number when one is assigned.

Next numbers are commonly used for:

- Document number
- Address Book number

Next numbers works in conjunction with the data dictionary. Each data dictionary item that uses next numbers contains a next numbering index value, which corresponds to the line number containing the next number value for that data item.

See Also

- *Setting Up Next Numbers (P0002) in the Technical Foundation Guide*

12 System Maintenance

Overview to System Maintenance

Objectives

- To purge four-point analysis records from the system
- To maintain American Society for Testing and Materials (ASTM) tables

About Four-Point Records Purge

When you perform a four-point analysis, the system creates records in the Four-Point Analysis Maintenance (F41509) and Four-Point Temperature Maintenance (F415091) tables. As part of your depot operations, you might need to delete four-point analysis records that have built up in the system.

About ASTM Table Maintenance

If your depot holds asphalt and bitumen products or other products that require heated tanks, you must use specific temperature and ASTM density tables to perform volume conversions. You might need to review or change the table values specific to your depot operations.

Complete the following tasks:

- Purge four-point analysis records
- Work with ASMT tables

Purge Four-Point Analysis Records

Purging Four-Point Analysis Records



From Bulk Stock Management (G4150), enter 27
 From Inventory Advanced and Technical Operations (G4131), choose **Global Updates and Purges**
 From Global Updates and Purges (G41311), choose **Four-Point Maintenance Purge**

When you perform a four-point analysis, the system creates records in the Four-Point Analysis Maintenance (F41509) and Four-Point Temperature Maintenance (F415091) tables. As part of your depot operations, you might need to delete four-point analysis records that have built up in the system.

With this report writer program, you can specify in the processing options whether to run the report in proof or final mode, whether to:

- Print a report of the purged records
- Save the purged records to a history table

Before You Begin

- Verify that you no longer need the records you specify to purge

See Also

- *Calculating Gain or Loss for Received Products (P41509)* for information on performing a four-point analysis

File	Order	DT	Line	Rec Number	Data Item	Co	Depot	Add Num	Item
F41509	87	BJ	1.000				DEPOT1	500	70640
F41509	87	BJ	2.000				DEPOT1	500	70658
F41509	87	BJ	3.000				DEPOT1	500	70640
F41509	91	BJ	1.000	19			DEPOT1	500	519486
F41509	93	BJ	1.000	20			DEPOT1	500	519486
F41509	229	OP	1.000	5			DEPOT1	500	70658
F41509	233	OP	1.000	17			DEPOT1	500	70658
F41509	272	OP	1.000	22			DEPOT1	500	70640
F41509	345	OP	1.000	113			DEPOT1	1001	70640
F41509	359	OP	1.000	115			DEPOT1	500	70703
F41509	420	OP	1.000	126			DEPOT1	600	70640
F41509	420	OP	2.000	126			DEPOT1	600	70658
F41509	439	OP	1.000	127			DEPOT1	500	70658
F41509	468	OP	1.000	135			DEPOT1	500	70640
F41509	480	OP	1.000	143			DEPOT1	500	70658
F41509	481	OP	1.000	144			DEPOT1	500	70658
F41509	482	OP	1.000	145			DEPOT1	500	70658
F41509	482	OP	2.000	145			DEPOT1	500	70658
F41509	495	OP	1.000				DEPOT1	500	70640
F41509	495	OP	2.000				DEPOT1	500	70640
F41509	6625	OP	1.000	103			DEPOT1	500	70640
F41509	6625	OP	2.000	104			DEPOT1	500	70640

Processing Options

See [Four Point Maintenance Purge \(P41509\)](#).

Work with ASTM Tables

Working with ASTM Tables



From Bulk Stock Management (G4150), enter 29
From Bulk Stock Management Setup (G415041), choose ASTM D4311 Table

If your depot holds asphalt and bitumen products or other products that require heated tanks, you must use specific temperature and density tables to perform volume conversions.

The system is set up with two versions of the ASTM (American Society for Testing and Materials) D4311 table, one using a standard temperature of 60 degrees Fahrenheit and one using a standard temperature of 15 degrees Celsius. You specify in a processing option which version to use as the system default table. You can review or make adjustments to these tables to accommodate your specific needs.

See Also

- *Understand Bulk Stock* for information on temperature and density conversions for heated tanks
- *Defining Item Temperature and Density* to specify the D4311 as the default table for the item

On ASTM Table Maintenance

Temp	850 to 965 Kg/M3	966 Kg/M3 or higher
25.00-	1.02549	1.02900
24.50-	1.02510	1.02850
24.00-	1.02469	1.02800
23.50-	1.02440	1.02770
23.00-	1.02410	1.02760
22.50-	1.02369	1.02720
22.00-	1.02350	1.02680
21.50-	1.02320	1.02650
21.00-	1.02269	1.02610
20.50-	1.02250	1.02580
20.00-	1.02220	1.02540
19.50-	1.02199	1.02500
19.00-	1.02166	1.02470
18.50-	1.02120	1.02430

Complete the following fields as necessary:

- Temperature Type
- Temperature
- Density

Field	Explanation
Volume Correction at API Grav 14.9/less	Factor used to calculate the corrected density and Volume Correction Factor (VCF) for bitumen/asphalt.
Volume Correction at API Grav 15.to 34.9	Factor used to calculate the corrected density and Volume Correction Factor (VCF) for bitumen/asphalt.

Processing Options

See [Asphalt Table Maintenance \(P415311\)](#).

13 Processing Options

Intra-Depot Stock Movements Processing Options

General Stock Movements - Adjustments (P415101)

Processing Option	Processing Options Requiring Further Description
<p>DEFAULT VALUES :</p> <ol style="list-style-type: none"> 1. Document type for product. 2. Enter Processing Group: <ul style="list-style-type: none"> 1 - Generic Bulk Stock Adjustment 2 - Consumed in Operations 3 - Tank-to-Tank Transfer 4 - Repacking, Decanting, or Filling 5 - Rebrand/Regrade 6 - Simple Blend 	
<ol style="list-style-type: none"> 3. Enter the default Reason Code. 4. Enter '1' to have cursor positioning on From/To type. 5. Enter a default Gain/Loss location. (Maximum 20 characters) 	
<p>PROCESS CONTROL :</p> <ol style="list-style-type: none"> 6. Method for assigning expiration date to newly created lots. <ul style="list-style-type: none"> 1 = Assign manually. 2 = Newest From Expiration Date. 3 = Oldest From Expiration Date. 4 = Transaction date + shelf life. 7. Enter a '1' to protect Lot Number, Lot Expiration Date, and Lot Status. 	

Processing Option	Processing Options Requiring Further Description
<p>DREAM WRITER VERSIONS:</p> <p>Enter the version of each program to be used.</p> <p>If left blank, ZJDE0001 will be used.</p> <p>8. Journal Entries (P09101)</p> <p>9. G/L Functional Server (XT0911Z1)</p> <p>10. Item Search (P41200)</p> <p>11. Item Ledger (P415201)</p> <p>12. Warehouse Requests (P46100)</p>	
<p>PROCESSING CONTROL :</p> <p>13. Enter a '1' to protect costs or a '2' to make costs non-display.</p> <p>If left blank, the change of costs is allowed.</p> <p>14. Enter a '1' to suppress Lot information.</p> <p>15. Enter a '1' to suppress G/L Date.</p>	
<p>16. Enter a '1' to run in summary mode.</p> <p>G/L accounts will be summarized within each document number.</p> <p>If run in detail, G/L accounts will be produced for each line.</p> <p>17. Enter a '1' to allow transfers from held lots.</p> <p>18. Enter a '1' to allow transfers greater than quantity available.</p>	
<p>19. Enter a '1' if the 'From' and 'To' quantities must balance to zero.</p> <p>Blank does not require balancing to zero.</p> <p>(Bulk Quantities only)</p> <p>20. Enter a '1' if the FROM and TO lines must have the same Package Items.</p> <p>Blank will not edit.</p>	

Processing Option	Processing Options Requiring Further Description
<p>21. Enter which item search screen is to be used to return items.</p> <p>1 = Item Search Window allowing the return of multiple items.</p> <p>2 = Full item search screen with query capability.</p> <p>(If left blank the item search window allowing the return of a single item will be used.)</p>	
<p>22. Enter a '1' to display Weight in the main subfile line, and the ambient quantity in the fold area.</p> <p>Enter a '2' to enter account numbers and subledger information on "From" transactions (valid on Adjustments and Consumed in Operations transactions only).</p>	
<p>23. Enter a '1' to update the Item History file (F4115) for tracking on "From" transactions.</p>	
<p>24. Enter a '1' to write Subledger Information based on Item Number into Journal Entries.</p> <p>If left blank, no Subledger Information will be written in Journal Entries.</p>	

General Stock Movements - Tank to Tank (P415101)

Processing Option	Processing Options Requiring Further Description
<p>DEFAULT VALUES :</p> <p>1. Document type for product.</p> <p>2. Enter Processing Group:</p> <p>1 - Generic Bulk Stock Adjustment</p> <p>2 - Consumed in Operations</p> <p>3 - Tank-to-Tank Transfer</p> <p>4 - Repacking, Decanting, or Filling</p> <p>5 - Rebrand/Regrade</p> <p>6 - Simple Blend</p>	
<p>3. Enter the default Reason Code.</p>	

Processing Option	Processing Options Requiring Further Description
<p>4. Enter '1' to have cursor positioning on From/To type.</p> <p>5. Enter a default Gain/Loss location. (Maximum 20 characters)</p>	
<p>PROCESS CONTROL :</p> <p>6. Method for assigning expiration date to newly created lots. 1 = Assign manually. 2 = Newest From Expiration Date. 3 = Oldest From Expiration Date. 4 = Transaction date + shelf life.</p> <p>7. Enter a '1' to protect Lot Number, Lot Expiration Date, and Lot Status.</p>	
<p>DREAM WRITER VERSIONS: Enter the version of each program to be used. If left blank, ZJDE0001 will be used.</p> <p>8. Journal Entries (P09101)</p> <p>9. G/L Functional Server (XT0911Z1)</p> <p>10. Item Search (P41200)</p> <p>11. Item Ledger (P415201)</p> <p>12. Warehouse Requests (P46100)</p>	
<p>PROCESSING CONTROL :</p> <p>13. Enter a '1' to protect costs or a '2' to make costs non-display. If left blank, the change of costs is allowed.</p> <p>14. Enter a '1' to suppress Lot information.</p> <p>15. Enter a '1' to suppress G/L Date.</p>	
<p>16. Enter a '1' to run in summary mode. G/L accounts will be summarized within each document number. If run in detail, G/L accounts will be produced for each line.</p> <p>17. Enter a '1' to allow transfers from held lots.</p>	

Processing Option	Processing Options Requiring Further Description
18. Enter a '1' to allow transfers greater than quantity available.	
19. Enter a '1' if the 'From' and 'To' quantities must balance to zero. Blank does not require balancing to zero. (Bulk Quantities only) 20. Enter a '1' if the FROM and TO lines must have the same Package Items. Blank will not edit.	
21. Enter which item search screen is to be used to return items. 1 = Item Search Window allowing the return of multiple items. 2 = Full item search screen with query capability. (If left blank the item search window allowing the return of a single item will be used.)	
22. Enter a '1' to display Weight in the main subfile line, and the ambient quantity in the fold area. Enter a '2' to enter account numbers and subledger information on "From" transactions (valid on Adjustments and Consumed in Operations transactions only). 23. Enter a '1' to update the Item History file (F4115) for tracking on "From" transactions.	
24. Enter a '1' to write Subledger Information based on Item Number into Journal Entries. If left blank, no Subledger Information will be written in Journal Entries.	

Bulk Product Receipts Processing Options

Enter Receipts (P4312)

Processing Option	Processing Options Requiring Further Description
<p>DEFAULT VALUES:</p> <ol style="list-style-type: none"> 1. Order Type 2. Receipt Document Type <p>Incoming Acceptable Next Status Codes:</p> <ol style="list-style-type: none"> 3. Status Code 1 4. Status Code 2 5. Status Code 3 <p>Outgoing Next Status Codes:</p> <ol style="list-style-type: none"> 6. Partial receipt 7. Close balance of line 8. Cancel balance of line 	<p>If an order line does not display for receipt, check the Next Status on the line (via Purchase Order Entry-P4311) to verify it matches one of the three status codes you set below.</p> <p>If you perform partial receipts, you want to update the next status on purchase order lines:</p> <ol style="list-style-type: none"> 1. To indicate that a partial receipt has taken place, and 2. So you can lock down the status in Purchase Order Entry so users cannot make changes to partially received lines. <p>Should normally be 999.</p> <p>Should normally be 999.</p>
<p>PROMPTING CONTROL:</p> <p>Enter a '1' to:</p> <ol style="list-style-type: none"> 9. Select all lines for receipt. 10. Be prompted to accept the receipt. 	

Processing Option	Processing Options Requiring Further Description
<p>11. Display lot/layer information.</p> <p>12. Display Sales Order Backorders.</p> <p>13. Record serial number information for inventory items.</p> <p>14. Protect lot number, lot expiration date, and lot status on orders with automatically generated or assigned lot numbers.</p> <p>15. Enter a '1' to protect prices, or a '2' to make prices non-display. If left blank, the update of prices is allowed.</p> <p>16. Enter a '1' to require manual entry of the quantity. If left blank, the quantity field will be loaded.</p> <p>17. Enter a '1' to display description. If left blank, the item/account number will be displayed.</p> <p>18. Enter the format to be displayed. 1 = Receipts by Purchase Order 2 = Receipts by Item 3 = Receipts by G/L Account (If left blank, format 1 is used.)</p>	<p>Set this processing option to 1 to have the Backorder Release screen (V42117) display after you perform a receipt to release backorders that might exist for the items you just received.</p>
<p>LANDED COST PROCESSING:</p> <p>19. Enter a '1' to display the landed cost screen, or a '2' to perform blind landed cost processing. If left blank, no landed cost processing is performed.</p>	
<p>TOLERANCE CHECKING:</p> <p>Enter a '1' for a warning message, or a '2' to prohibit entry. If left blank, no tolerance checking is performed.</p> <p>20. Quantity, Unit Cost, Amount</p> <p>21. Receipt Date</p>	

Processing Option	Processing Options Requiring Further Description
<p>ITEM BRANCH/LOCATION PROCESSING:</p> <p>22. Enter a '1' to update the supplier when an item is purchased the first time, or a '2' to update the supplier every time the item is purchased. If left blank, no supplier update is performed.</p> <p>23. Enter a '1' to default the Location and Lot Number from the primary item balance location, if the Location and Lot Number are both blank.</p>	<p>Use this option to update the Supplier address number in the branch record for an inventory item (P41026). The address number is then used by the Purchase Order Generator program (P43011) to create orders for the supplier.</p>
<p>DREAM WRITER VERSIONS:</p> <p>Enter the version for each program: If left blank, ZJDE0001 will be used.</p> <p>24. Open Order Inquiry (P430301)</p> <p>25. G/L Functional Server (XT0911Z1)</p> <p>26. SO Backorder Release (P42117)</p> <p>27. Receipt Traveler (P43512)</p> <p>28. Receipt Routing (P43250)</p>	
<p>DOCUMENT PROCESSING:</p> <p>29. Enter a '1' to automatically print a Receipt Traveler Document following each receipt.</p>	
<p>KIT PROCESSING:</p> <p>30. Enter a '1' to display the kit parent item, or a '2' to display the kit component items. If left blank, no kit information is displayed.</p> <p>Note: Stock items must be received at the component level.</p>	
<p>SUPPLIER ANALYSIS:</p> <p>31. Enter a '1' to capture supplier analysis information. If left blank, no supplier analysis information is captured.</p>	<p>Enter 1 to have the system create a record in the Supplier/Item Relationship file (F43090) if it doesn't already exist, and also to update order information to the file.</p>

Processing Option	Processing Options Requiring Further Description
<p>ASSOCIATED TEXT PROCESSING:</p> <p>32. Enter a '1' to purge the associated text when the line is fully received. If left blank, the text is retained.</p>	
<p>RECEIPT ACKNOWLEDGMENT:</p> <p>33. Enter a '1' to send a PPAT message to the purchase order originator regarding the receipt.</p> <p>34. Enter the next status code that the Sales Order should be updated to upon full receipt of a direct ship purchase order line.</p>	<p>Use this option to update the Next Status on a direct ship sales order that corresponds to a purchase order to ensure that it is ready for ship confirmation or update.</p>
<p>RECEIPT ROUTING:</p> <p>35. Enter a '1' to initiate the receipt routing process. If left blank, all items will be received directly into stock.</p> <p>36. Enter the default route type to be used to search for a receipt route. If left blank, the program will search for route type equivalent to blank.</p>	
<p>SUMMARIZATION:</p> <p>37. Enter a '1' to summarize journal entries. If left blank, journal entries are written in detail.</p> <p>Note: If tracking commitments in the PA/PU ledgers, this option may NOT be used.</p>	
<p>WAREHOUSE PROCESSING:</p> <p>38. Enter the Directed Putaway mode: Blank =No Directed Putaway Requests 1 = Request Putaway only 2 = Request Putaway and process using the subsystem 3 = Receive directly to reserved locations (No requests).</p> <p>39. If processing putaway requests through the subsystem, enter the DREAM Writer version to be used. If blank, XJDE0001 is used. (See Form ID P46171).</p>	

Processing Option	Processing Options Requiring Further Description
<p>40. Enter the DREAM Writer version of On-Line Reservations to be used. If blank, ZJDE0001 is used. (See Form ID P46130)</p> <p>41. Enter a '1' to perform warehouse Cross-Docking. This is only valid with processing option 12 to perform sales backorder processing set on.</p>	
<p>CURRENCY PROCESSING:</p> <p>42. Enter the date to be used when retrieving the currency exchange rate. If left blank, the purchase order exchange rate will be used. 1 = G/L Date 2 = Current Date</p> <p>43. Enter a '1' to protect the exchange rate field.</p>	
<p>BULK ITEM PROCESSING:</p> <p>44. Enter '1' to record the difference between ambient and standard quantities received as a temperature gain/loss. Enter '2' to update the unit cost as the extended cost divided by the standard quantity. Leave blank if quantities are purchased and received in standard.</p> <p>45. Enter a '1' if you want Receipts Routing integration with the Four Point Analysis file.</p> <p>46. Enter the DREAM Writer Version for the Bulk Stock Movement program called for Lot Controlled product. If left blank, ZJDE0005 will be used.</p>	
<p>DIRECT SHIP ORDER PROCESSING: (LOAD & DELIVERY MANAGEMENT ONLY)</p> <p>47. Enter a '1' if related sales order lines should be automatically load and deliver confirmed.</p> <p>48. Enter the sales order next status code beyond which sales orders will not be automatically load and deliver confirmed.</p>	

Processing Option	Processing Options Requiring Further Description
49. Enter the version of the transportation transaction server to be used to automatically load and deliver confirm orders.	
<p>QUALITY MANAGEMENT:</p> <p>50. Enter the version of Test Results Revisions (P3711) to call. If left blank, ZJDE0002 will be used.</p>	
<p>CASCADING RECEIPTS:</p> <p>51. Enter '1' to initiate Cascading Receipts</p> <p>52. Enter the type of tolerance check to perform in Cascading Receipts 1 = Percentage Tolerance 2 = Units Tolerance</p> <p>53. Enter the tolerance value. This is used in conjunction with the previous option.</p> <p>G/L POST</p> <p>54. Enter a '1' to automatically submit the G/L Post. If left blank, post WILL NOT be automatically submitted.</p> <p>55. Enter the DREAM Writer version of the G/L Post to be used. If left blank, ZJDE0033 will be used. This is used in conjunction with the previous option.</p> <p>56. Enter a value for processing when the G/L Date of the receipt is outside the fiscal year of the G/L Date on the original order ' '= Ignore '1' = Issue Warning '2' = Issue Hard error</p>	<p>Set this option to accommodate encumbrance and commitment accounting such that relief of a commitment cannot occur after the year in which the commitment was entered. Commitment accounting only applies to order lines types with an Inventory Interface of A or B.</p>

Reconciliations Processing Options

Multi-Meter Readings (P415105)

Processing Option	Processing Options Requiring Further Description
1. Enter the Reconciliation Status Code which indicates the transaction has been throughput reconciled. Records with this status (and any status greater than the one entered) will be protected from changes.	

Throughput Reconciliations - Review (P415111)

Processing Option	Processing Options Requiring Further Description
1. List the User Defined Codes which contain the document types that make up the following categories: Load Confirm Sales: system code record type Other Metered Outgoings: system code record type Non-Metered Outgoings: system code record type 2. Enter the screen format to initially display: 1 = ambient volume 2 = standard volume (default) 3 = weight	

Processing Option	Processing Options Requiring Further Description
3. Enter the beginning (current) reconciliation status.	
4. Enter the next reconciliation status.	

Throughput Reconciliations - Approve (P415111)

Processing Option	Processing Options Requiring Further Description
<p>1. List the User Defined Codes which contain the document types that make up the following categories:</p> <p>Load Confirm Sales:</p> <p>system code</p> <p>record type</p> <p>Other Metered Outgoings:</p> <p>system code</p> <p>record type</p> <p>Non-Metered Outgoings:</p> <p>system code</p> <p>record type</p>	
2. Enter the screen format to initially display:	
1 = ambient volume	
2 = standard volume (default)	
3 = weight	
3. Enter the beginning (current) reconciliation status.	
4. Enter the next reconciliation status.	

Throughput Reconciliation Report - Detail (P415403)

Processing Option	Processing Options Requiring Further Description
<ol style="list-style-type: none"> 1. List the User Defined Codes which contain the document types that make up the following categories: Load Confirm Sales: system code record type Other Metered Outgoings: system code record type Non-Metered Outgoings: system code record type 2. Enter a '1' to print the detailed transactions or a '2' to print totals only. The default is to print totals only. 3. Enter the current reconciliation status. 4. Enter the "As Of" date thru which you want records to be included. 5. Document Type for Load & Delivery Transactions created. (With the exception of Sales Orders created during Milk Run Processing and Charge to Org during Disposition). 6. Enter '1' to print detailed Load and Delivery transactions. ' ' is the default and will not print detailed Load and Delivery transactions. 7. Enter the Trip Status code that is "Delivery Confirmed". 8. Enter the unit of measure in which you want the Total Depot Gain/Loss displayed. 9. Enter the quantities to display: ' ' = standard volume(default) 1 = ambient volume 2 = weight 	

Throughput Reconciliation Report -Totals (P415403)

Processing Option	Processing Options Requiring Further Description
<ol style="list-style-type: none"> 1. List the User Defined Codes which contain the document types that make up the following categories: Load Confirm Sales: system code record type Other Metered Outgoings: system code record type Non-Metered Outgoings: system code record type 2. Enter a '1' to print the detailed transactions or a '2' to print totals only. The default is to print totals only. 3. Enter the current reconciliation status. 4. Enter the "As Of" date thru which you want records to be included. 5. Document Type for Load & Delivery Transactions created. (With the exception of Sales Orders created during Milk Run Processing and Charge to Org during Disposition). 6. Enter '1' to print detailed Load and Delivery transactions. '' is the default and will not print detailed Load and Delivery transactions. 7. Enter the Trip Status code that is "Delivery Confirmed". 8. Enter the unit of measure in which you want the Total Depot Gain/Loss displayed. 9. Enter the quantities to display: '' = standard volume(default) 1 = ambient volume 2 = weight 	

Update Throughput Reconciliations - Proof (P415020)

Processing Option	Processing Options Requiring Further Description
<p>SELECTION CRITERIA:</p> <ol style="list-style-type: none"> List the User Defined Codes which contain the document types that make up the following categories: Load Confirm Sales: system code record type Other Metered Outgoings: system code record type Non-Metered Outgoings: system code record type Enter the current reconciliation status. Enter the next reconciliation status. Enter the Transaction Date to use when selecting records. All unreconciled records thru this date will be included. 	
<p>PRINT OPTIONS:</p> <ol style="list-style-type: none"> Enter the quantities to display: ' ' = standard volume(default) 1 = ambient 2 = weight 	
<p>UPDATE OPTIONS:</p> <ol style="list-style-type: none"> Enter '1' to update the Gain/Loss File. Default of blank will run the report in proof mode. Enter the Reconciliation Date to use when in update mode. If no date is entered, the current system date will be used. 	

Update Throughput Reconciliations - Update (P415020)

Processing Option	Processing Options Requiring Further Description
<p>SELECTION CRITERIA:</p> <ol style="list-style-type: none"> List the User Defined Codes which contain the document types that make up the following categories: Load Confirm Sales: system code record type Other Metered Outgoings: system code record type Non-Metered Outgoings: system code record type Enter the current reconciliation status. Enter the next reconciliation status. Enter the Transaction Date to use when selecting records. All unreconciled records thru this date will be included. 	
<p>PRINT OPTIONS:</p> <ol style="list-style-type: none"> Enter the quantities to display: ' ' = standard volume(default) 1 = ambient 2 = weight 	
<p>UPDATE OPTIONS:</p> <ol style="list-style-type: none"> Enter '1' to update the Gain/Loss File. Default of blank will run the report in proof mode. Enter the Reconciliation Date to use when in update mode. If no date is entered, the current system date will be used. 	

Multi-Tank Dip Readings Entry (P415106)

Processing Option	Processing Options Requiring Further Description
<ol style="list-style-type: none"> 1. Enter the status code beyond which a dip reading cannot be changed. This will indicate the point at which a reading has been operationally reconciled. 2. Enter a '1' to be prompted to accept the dip readings. 3. Enter the DREAM Writer version to use when calling P415203, Tank Reading Inquiry. Version ZIDE0001 will be used as the default if left blank. 	

Operational Reconciliations Summary Report (P415404)

Processing Option	Processing Options Requiring Further Description
<ol style="list-style-type: none"> 1. List the User defined Code containing the document types for the following: Incomings: system code record type Outgoings: system code record type 2. Enter the current reconciliation status. 3. Enter the "From" reconciliation date to use when selecting records. 4. Enter the "Thru" reconciliation date to use when selecting records. 5. Enter the point through which records have been processed. This option controls the retrieval of records. ' ' = review (default) '0' = approval without prior review '1' = approval with prior review 6. Enter the unit of measure you want the Total Depot Gain/Loss displayed in. 	<p>Change to: Enter the unit of measure in which you want the Total Depot Gain/Loss displayed.</p>

Processing Option	Processing Options Requiring Further Description
7. Enter the quantities to display: '' = standard volume(default) 1 = ambient volume 2 = weight	

Operational Reconciliations Detail Report (P415407)

Processing Option	Processing Options Requiring Further Description
1. List the User Defined Code containing the document types for the following: Incomings: system code record type Outgoings: system code record type 2. Enter the current reconciliation status. 3. Enter the "From" reconciliation date to use when selecting records. 4. Enter the "Thru" reconciliation date to use when selecting records. 5. Enter the point through which records have been processed. This option controls the retrieval of records. '' = review (default) '0' = approval without prior review '1' = approval with prior review 6. Enter the unit of measure in which you want the Total Depot Gain/Loss displayed. 7. Enter the quantities to display: '' = standard volume(default) 1 = ambient volume 2 = weight	

Update Operational Reconciliations - Proof (P415021)

Processing Option	Processing Options Requiring Further Description
<p>RECORD SELECTION:</p> <ol style="list-style-type: none"> 1. Enter the As Of Date: 2. Enter the As Of Time: 3. Enter the current reconciliation status. 4. Enter the next reconciliation status. 5. Enter '1' to update records. Default of blank will not update records. 6. Enter the document type to be used for creating the adjusting entry. 7. Enter the General Ledger date for processing the update. If left blank the current system date will default. 8. Enter the General Ledger date for processing the retroactive gain/loss. If left blank the current system date will default. 9. Enter '1' to run in summary mode. The G/L accounts will be summarized within each document number. If run in detail, G/L accounts will be produced for each detail line. 10. Enter the DREAM Writer version to use for the G/L Functional Server XT0911Z1. If left blank the default version ZJDE0001 will be used. 11. List the User Defined Code containing the document types for the following: Incomings: system code record type Outgoings: system code record type 12. Enter the unit of measure you want the Total Depot Gain/Loss displayed in. 	

Processing Option	Processing Options Requiring Further Description
13. Enter the quantities to display: ' ' = standard volume(default) 1 = ambient volume 2 = weight	

Update Operational Reconciliations - Update (P415021)

Processing Option	Processing Options Requiring Further Description
RECORD SELECTION: 1. Enter the As Of Date: 2. Enter the As Of Time: 3. Enter the current reconciliation status. 4. Enter the next reconciliation status. 5. Enter '1' to update records. Default of blank will not update records. 6. Enter the document type to be used for creating the adjusting entry. 7. Enter the General Ledger date for processing the update. If left blank the current system date will default. 8. Enter the General Ledger date for processing the retroactive gain/loss. If left blank the current system date will default. 9. Enter '1' to run in summary mode. The G/L accounts will be summarized within each document number. If run in detail, G/L accounts will be produced for each detail line. 10. Enter the DREAM Writer version to use for the G/L Functional Server XT0911Z1. If left blank the default version ZJDE0001 will be used.	

Processing Option	Processing Options Requiring Further Description
<p>11. List the User Defined Code containing the document types for the following:</p> <p>Incomings:</p> <p>system code</p> <p>record type</p> <p>Outgoings:</p> <p>system code</p> <p>record type</p> <p>12. Enter the unit of measure you want the Total Depot Gain/Loss displayed in.</p> <p>13. Enter the quantities to display:</p> <p>' ' = standard volume(default)</p> <p>1 = ambient volume</p> <p>2 = weight</p>	

Gain/Loss Analysis Report (P415402)

Processing Option	Processing Options Requiring Further Description
<p>1. Enter the range of transaction dates for inclusion of records.</p> <p>(Blanks will default to system date)</p> <p>From Date</p> <p>Thru Date</p> <p>2. Enter the relation to use for the variance selection.</p> <p>GT=greater than</p> <p>LT=less than</p> <p>EQ=equal to</p> <p>3. Enter the quantity to compare the variance to for selection.</p> <p>4. Enter one of the following:</p> <p>A = compare the volume difference</p> <p>% = compare the percent variance</p>	

Reconciliation History Review (P415114)

Processing Option	Processing Options Requiring Further Description
1. Enter the screen format to initially display: 1 = Ambient Volume 2 = Standard Volume (default) 3 = Weight	

Reconciliation Status Inquiry (P415113)

Processing Option	Processing Options Requiring Further Description
SCREEN CONTROL OPTIONS: 1. Enter '1' to allow the update of the reconciliation status. 2. Enter default depot (if blank, the depot from the User Defaults will be used).	

Reconciliation Status Inquiry & Change (P415113)

Processing Option	Processing Options Requiring Further Description
SCREEN CONTROL OPTIONS: 1. Enter '1' to allow the update of the reconciliation status. 2. Enter default depot (if blank, the depot from the User Defaults will be used).	

Bulk Stock Information Processing Options

Bulk Product Transaction Inquiry (P415201)

Processing Option	Processing Options Requiring Further Description
DEFAULT VALUE: 1. Document Type	
DREAM WRITER VERSIONS: Enter a DREAM Writer Version for the following programs. (ZJDE0001) is the default. 2. Load & Delivery Ledger Inq P49511	

Monthly Tank Stock Status (P415205)

Processing Option	Processing Options Requiring Further Description
1. List the User Defined Code containing the document types for the following: Incomings: system code record type Outgoings: system code record type DREAM WRITER VERSIONS: 2. Bulk Product Transaction Inquiry (P415201). The default version is ZJDE0001.	

Meter Readings Inquiry (P415207)

Processing Option	Processing Options Requiring Further Description
DEFAULT VALUES: <ol style="list-style-type: none">1. From Reconciliation Status Code2. Thru Reconciliation Status Code	
PROCESSING CONTROL: <ol style="list-style-type: none">3. Enter a '1' if the above Status Codes are based on Last Status. If left blank, the Next Status will be used.	

Tank Reading Inquiry (P415203)

Processing Option	Processing Options Requiring Further Description
SCREEN FORMAT: <ol style="list-style-type: none">1. Enter a '1' to display Density on the first line. A default of blank will display Gross Dip on the first line with pumpable stock and ullage in the fold area.	

Bulk Stock Management Reports Processing Options

Daily Product Movements (P415401)

Processing Option	Processing Options Requiring Further Description
<ol style="list-style-type: none">List the User Defined Code containing the document types for the following: Incomings: system code record type Outgoings: system code record typeEnter the beginning date. If left blank the current system date will be used.Enter the ending date. If left blank the current system date will be used.	

Monthly Tank Stock Movements (P415405)

Processing Option	Processing Options Requiring Further Description
<p>1. List the User Defined Code containing the document types for the following:</p> <p>Incomings:</p> <p>system code</p> <p>record type</p> <p>Outgoings:</p> <p>system code</p> <p>record type</p>	

Tank Strapping Table Report (P415406)

Processing Option	Processing Options Requiring Further Description
<p>HEIGHT READINGS:</p> <p>1. Enter the range of height readings to be selected for processing.</p> <p>If left blank, the range will be from the lowest height reference point to the highest height reference point.</p> <p>Dip Height/Ullage From</p> <p>Dip Height/Ullage Thru</p> <p>2. Enter the height increment.</p> <p>If left blank, the increment will default from the strapping units.</p>	

Bulk Stock Information Processing Options

Item Master Revisions (P4101)

Processing Option	Processing Options Requiring Further Description
<p>DEFAULT VALUES :</p> <ol style="list-style-type: none"> 1. Primary Unit of Measure (Blanks=EA) 2. Weight Unit of Measure (Blanks=LB) 	
<p>PROCESS CONTROL :</p> <ol style="list-style-type: none"> 3. Specify the from and thru dates to be used for effective dates in the Item Notes File : From Date (Blank = System date) Thru Date (Blank = 12/31 with the year = to the default value for the data dictionary item Century Change Year (#CYR)) 	
<ol style="list-style-type: none"> 4. Enter a '1' for each additional Item Master information screen to display when performing an add or change. If blank, the screen will not display. Classification Codes Cost Revisions (Conditional) Price Revisions (Conditional) Units & Measures Manufacturing Values Bulk Product Information UCC Codes & UOMs Lot Processing 	

Processing Option	Processing Options Requiring Further Description
<p>5. Enter a '1' to use the window version of the screens selected above. If left blank, the full screen versions will be displayed.</p> <p>6. Enter a '1' to automatically call the Item Branch Program (P41026) when adding a new item number and return to the Item Master Screen. Enter a '2' to call the Item Branch program automatically and remain on the Item Branch Screen. If left blank, the Item Branch Program will not be called.</p>	
<p>GLOBAL UPDATE:</p> <p>7. Enter a '1' to transfer changes made to the 2nd (LITM) and the 3rd (AITM) item numbers to the Item Branch (F4102) item records. (F19 from Item Master Revisions allows you to update other files). or Enter a '2' to transfer changes to records in the selected files (see User Defined Codes 40/IC). Press F1 to display the selected files.</p>	
<p>DREAM WRITER VERSIONS:</p> <p>Enter the version to be used for each program. If left blank, ZJDE0001 is used.</p> <p>8. Item Availability (P41202)</p> <p>9. Item Branch (P41026)</p> <p>10. Product Catalog Detail (P41903)</p>	
<p>DRAWING INFORMATION:</p> <p>11. Enter a '1' to protect item drawing information from update.</p>	

Bulk Item Setup Information Processing Options

Branch/Plant Item Information (P41026)

Processing Option	Processing Options Requiring Further Description
<p>PROCESS CONTROL:</p> <p>1. Enter a '1' to select the Item Location information screens to automatically call when performing an add or a change. If left blank, screen will not display.</p> <p>Classification Codes Cost Revisions (conditional) Price Revisions (conditional) Unit of Measure Quantities Manufacturing Values Item Profile Bulk Product Information Lot Processing</p>	
<p>2. Enter '1' to use the window version of the screens selected above. If left blank, the full screens will display.</p>	
<p>DREAM WRITER VERSIONS:</p> <p>3. Summary Availability (P41202)</p> <p>4. Item / Location Information (P41024)</p> <p>5. Product Catalog Detail Information (P41903)</p>	
<p>REVISION LEVEL CONTROL:</p> <p>6. Enter '1' to protect ECO revision information from update.</p>	

Item Cost Revisions (P4105)

Processing Option	Processing Options Requiring Further Description
<p>DISPLAY CONTROL:</p> <ol style="list-style-type: none"> Enter a '1' for Speed Cost Update. If left blank, the screen will default to Item Cost Revisions. 	
<p>DEFAULT VALUES:</p> <ol style="list-style-type: none"> Enter the default cost method to display when the Speed Cost Update format is selected. 	
<p>PROCESS CONTROL:</p> <ol style="list-style-type: none"> Enter a '1' to prevent the standard cost from being changed. Enter a '1' to write Subledger Information based on Item Number, into Journal Entries. If left blank, no Subledger Information will be written in Journal Entries Enter '1' to use 15 character lot, leave blank to default to 12 characters. 	

Tank Flow Meter Setup Processing Options

Default Tank Information (P415108)

Processing Option	Processing Options Requiring Further Description
Enter the version for each program: If left blank, ZJDE0001 will be used.	
1. Multi-Tank Dip Readings (P415106)	

Allowed Products Matrix - Tanks (P415005)

Processing Option	Processing Options Requiring Further Description
1. Enter the type of matrix to be displayed. 'T' = Tanks (default) 'F' = Filling Line 'V' = Vehicle	

Bulk Item Setup Information Processing Options

Four Point Maintenance Purge (P41509)

Processing Option	Processing Options Requiring Further Description
<p>RECORD SELECTION:</p> <ol style="list-style-type: none"> 1. Enter a '1' if you would like to print a report of the purged records. If you are not running the purge in final mode, the report will give you a listing of the records that would be purged from the files. 2. Enter a '1' if you wish to run the purge in final mode. If left blank no records will be removed from the files and processing option 3 will be ignored. 3. Enter a '1' if you want to save the purged records to a history file. If this processing option is left blank, the records will not be saved. 	

Asphalt Table Maintenance (P415311)

Processing Option	Processing Options Requiring Further Description
<ol style="list-style-type: none"> 1. Enter the default temperature type to display. (F or C) 	

Processing Options in Appendices

Container Management Extraction Server (P41189)

Processing Option	Processing Options Requiring Further Description
<p>NEXT STATUS:</p> <p>1. Enter the override next status for lines processed. If left blank, the Order Activity Rules will be used.</p>	
<p>CROSS-REFERENCE TYPE:</p> <p>2. Enter the Cross-Reference Type for Item Cross-References. If left blank, the cross reference will not be checked.</p>	
<p>PRINT REPORT:</p> <p>3. Enter a '1' if you want a report of each of the records added to the file.</p>	
<p>DEFAULT VALUES:</p> <p>4. Enter the value of the default invoice cycle to be used for those lines for which a preference is not found.</p>	

Container Management - Deposits/Rentals (P41180)

Processing Option	Processing Options Requiring Further Description
<p>DOCUMENT CREATION OPTIONS:</p> <p>1. Enter the document type for deposits, refunds, and rentals (required):</p>	

Processing Option	Processing Options Requiring Further Description
2. Enter the line type used for deposits, refunds and rentals: 3. Enter the last status code for deposit, refund and rental lines: 4. Enter the override next status code for deposit, refund and rental lines:	
DREAM WRITER VERSION: Enter the version for the appropriate program. If left blank, 'ZJDE0001' will be used. 5. Preference Profiles (P40400)	
PRINT REPORT: 6. Enter '1' to print a report of the created/updated records.	
RENTALS: 7. Enter the rent through date. If left blank the current system date will be used.	
ADDRESS BOOK DEFAULT VALUE: 8. Enter a '1' to default the branch from the Address Book. If left blank, it will default from the container transaction.	

Customer/Distributor Statement - Final (P41182)

Processing Option	Processing Options Requiring Further Description
PROOF OR FINAL MODE: 1. Enter '1' to run the program in FINAL mode updating the records as processed. Default of blank will execute in PROOF mode (no update).	
STATEMENT DATE: 2. Enter the statement through date. Default = current date.	

Processing Option	Processing Options Requiring Further Description
<p>LINE TYPES:</p> <p>3. Enter the line type for deliveries:</p> <p>4. Enter the line type for returns:</p>	

Container Reconciliations - Update (P41185)

Processing Option	Processing Options Requiring Further Description
<p>1. Enter a '1' to run the program in update mode. If left blank, only the report will print (file will not be updated).</p> <p>2. List the User Defined Code containing the document types for the following: Acquisitions System Code Record Type Dispositions System Code Record Type</p> <p>3. Enter a '1' to print company totals only. A blank option will print both branch details as well as company summaries.</p> <p>4. Enter the Cross-Reference Type for Item Cross-References. (Required)</p>	

Container Location Report (P41183)

Processing Option	Processing Options Requiring Further Description
<p>1. Enter the Cross-Reference Type for Item Cross-References. (Required)</p> <p>2. Enter the date from which to process records (date this report was last run).</p>	

Container Transaction Inquiry (P41181)

Processing Option	Processing Options Requiring Further Description
<p>Enter the version for each program: If left blank, ZJDE0001 will be used.</p> <ol style="list-style-type: none">1. Container Deposits (P4118)2. A/R Inquiry (P032002)	

14 Appendices

Appendix A – Key Tables

Information used in the Bulk Stock Management system is stored in master maintenance tables and transaction processing tables.

Master Maintenance Tables

The following master maintenance tables store constants and setup information for the Bulk Stock Management System:

Field	Explanation
Bulk Item Master (F41011)	Stores product information specific to bulk products.
Item Branch (F4102)	Stores item information specific to a depot (branch/plant).
Bulk Depot/Product Information (F41022)	Stores information specific to a depot and product for all bulk items.
Item Location (F41021)	Stores information for an item at a specific location. The main purpose of this table is to store inventory balances on an item/location level. The table also stores basic item information that is identical to information found in the Item Master table This information provides the default values for the Item Location table from the Item Master table. You can override the default values here.
Inventory Constants (F41001)	Stores various branch/plant constants. Each branch/plant represents a depot.
Unit of Measure Conversion Factors (F41002)	Stores unit of measure conversion information about each item of inventory stored in the depot.
Unit of Measure Conversion Factors - Standard (F41003)	Stores standard unit of measure conversion information.
Location Master (F4100)	Stores basic information about all warehouse and tank locations for each branch/plant.
Tank Master (F41500)	Stores structural information about the physical tank and information required for volume calculations. The system uses this table, in conjunction with the Tank Strapping table and the Default Tank Information table, to validate any products entered for bulk transactions.

Field	Explanation
Tank Strapping Table Maintenance (F41503)	Stores the gauging increments (physical dimensions) of the tank. This table is used in volume calculations.
Blend Category (F41501)	Stores information on the allowed blend categories for blending tanks.
Default Tank Information (F41508)	Stores the default temperature and density/gravity information used in conversion routines.
Meter Master (F41506)	Stores information concerning the flow meters in a depot. This table is required for processing and reconciliations.
Filling Line Master (F41507)	Identifies the filling lines to be used in the blending/filling cycle.
Allowed Products Matrix (F41505)	Identifies the product groups that can be contained in the tanks, and in what order they can be used.
Cost Ledger (F4105)	Stores the cost of products received into and sold out of the system.
Item Cost Components Add-Ons (F30026)	Defines the cost components to be updated when receiving product.
Location Detail (F4602)	Defines the locations used in warehousing to store product.
Lot Master (F4108)	Defines the detail lot locations that identify batches of product received.
Filling Category and Rates (F415017)	Stores the notes for filling categories.
Four-Point Analysis Maintenance (F41509)	Stores the volumes recorded at different points in the movement of products.
Four-Point Temperature Maintenance (F415091)	Stores the temperatures recorded at different points in the movement of products.

Transaction Processing Tables

The following tables record information from product transactions:

Field	Explanation
Purchase Order Detail Ledger (F43199)	Stores detail information for each purchase order line (item number, price, quantity ordered, and so forth).
Purchase Order Receiver (F43121)	Stores the details of volume of product received.
Sales Order Header (F4201)	Stores the header information for each sales order (sales order number, customer number, shipment date, default shipping locations, and so forth).

Field	Explanation
Sales Order Detail (F4211)	Stores detail information for each sales order line (item number, quantity ordered, price, and so forth).
Item Ledger (F4111)	Stores history information for all inventory transactions. Any change to the bulk inventory is recorded in this table. Some examples are purchase order receipt and inventory adjustment.
Bulk Product Transactions (F41511)	Stores supplemental information that pertains to bulk transactions only, such as temperature/density information, ambient and standard volumes, tank dip information, Weighbridge information, and so forth.
Gain/Loss Transactions (F41512)	Tracks all gains and losses for analysis and reconciliations. Information used in the four point analysis is tracked with a separate table.
Multi-Meter Readings (F41515)	Stores information regarding opening and closing meter readings.

Appendix B – Unit of Measure Conversions

The following tables show typical measurement conversion. The information is not necessarily what is set up in your system, but is useful for reference in setting up your own conversions.

To Convert	To Length	Multiply By
Meters	Yards	1.0936
	Feet	2.3808
	Inches	39.370
Yards	Meters	0.9144
Feet	Meters	0.3048
Inches	Centimeters	2.54

To Convert	To Weight	Multiply By
Long tons	Pounds (avoirdupois)	2240
	Short tons	1.12
	Metric tons (tonnes)	1.01605
Short tons	Pounds (avoirdupois)	2000
	Long tons	0.892857
	Metric tons (tonnes)	0.907185
Metric tons (tonnes)	Long tons	0.984206
	Short tons	1.10231
Pounds (avoirdupois)	Kilograms	0.453592
Kilograms	Pounds (avoirdupois)	2.20462

To Convert	To Volume & Capacity*	Multiply By
U.S. gallons	Cubic inches	231
	Cubic feet	0.133681
	Imperial gallons	0.832674
	U.S. barrels	0.0238095
	Liters	3.78541

To Convert	To Volume & Capacity*	Multiply By
U.S. barrels	U.S. gallons	42
	Cubic inches	9702
	Cubic feet	5.61458
	Imperial gallons	34.9723
	Liters	158.987
Imperial gallons	Cubic inches	277.42
	Cubic feet	0.160544
	U.S. gallons	1.20095
	U.S. barrels	0.0285941
	Liters	4.54596
Cubic feet	Imperial gallons	6.22883
	U.S. gallons	7.48052
	U.S. barrels	0.178108
	Liters	28.3169
	Cubic meters	0.0283169
Cubic inches	Imperial gallons	0.00360465
	U.S. gallons	0.0043290
	Liters	0.0163871
Liters	Cubic inches	61.0238
	Cubic feet	0.0353147
	Imperial gallons	0.219969
	U.S. gallons	0.264172
	U.S. barrels	0.00628981
Cubic meters	Imperial gallons	219.969
	U.S. gallons	264.172
	U.S. barrels	6.28981
	Cubic feet	35.3147

*These factors are solely for conversion at the same temperature.

Appendix C – Conversion Routines

Calculating Standard Volume

The following procedures illustrate how the system calculates standard volume.

- [Calculating Standard Volume from Ambient Volume](#)
- [Calculating Standard Volume from Weight](#)

Calculating Standard Volume from Ambient Volume

Use the following American Society for Testing and Materials (ASTM) Tables for ambient to standard conversions:

- Relative Density (where gallons or imperial gallons are used) - use tables 23B and 24B
- Absolute Density (where metric volume measure are used) - use tables 53B and 54B or 53D and 54D
- API Gravity - use tables 5B and 6B

To calculate when Branch Base Temperature Equals Table Temperature

Use the following procedure when Branch Base Temperature equals Table Temperature (60F or 15C).

The following four factors must be available:

Ambient/Observed Volume

Temperature of the product in the tank

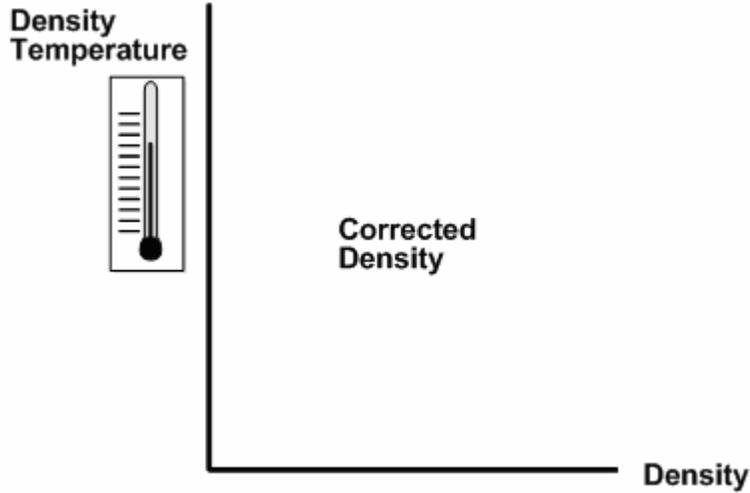
Density

Density Temperature

Complete the following steps:

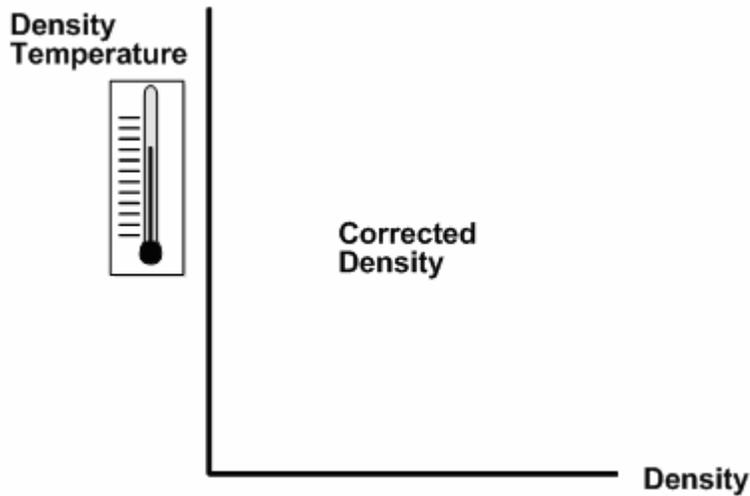
1. Use the ASTM tables to locate the Corrected Density.

Find the intersection of Density along the horizontal axis and Density Temperature along the vertical axis.



2. Use the second in the pair of ASTM tables to locate the Volume Conversion Factor (VCF).

Find the intersection of Corrected Density along the horizontal axis and Temperature along the vertical axis.



3. Multiply the VCF by the ambient Quantity to arrive at the Standard Quantity.

To calculate when Branch Base Temperature Does Not Equal Table Temperature

Use the following procedure when Branch Base Temperature differs from ASTM Table Temperature.

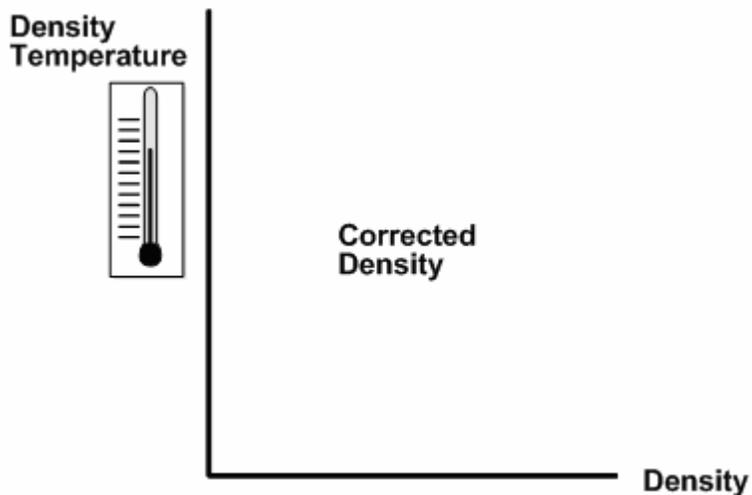
Complete the following steps:

1. Use the ASTM tables to locate the Corrected Density.

Find the intersection of Density along the horizontal axis and Density Temperature along the vertical axis.

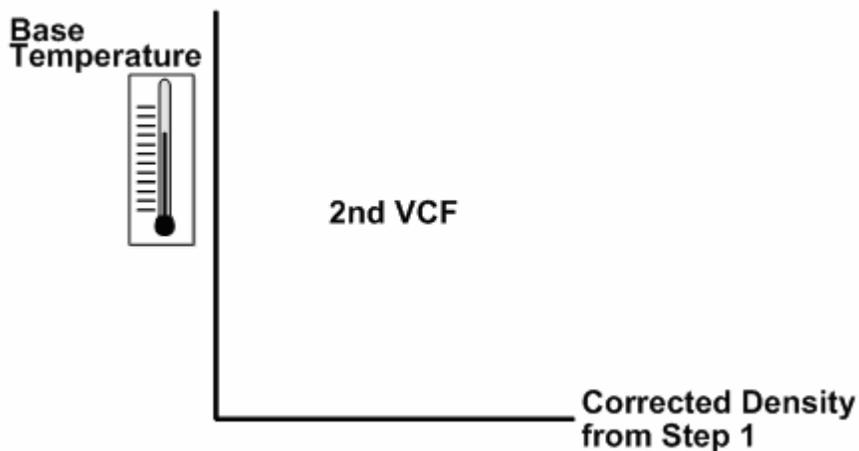
2. Use the second in the pair of ASTM tables to locate the Volume Conversion Factor (VCF).

Find the intersection of Corrected Density along the horizontal axis and Temperature along the vertical axis.



3. Use the second in the pair of ASTM tables to locate a second VCF.

Find the intersection of the Base Temperature specified on Branch/Plant Constants - Page 3 and the Corrected Density from Step 1.



4. Divide the first VCF by the second VCF.
5. Multiply the VCF from step 4 by the ambient quantity to get the standard quantity.

Calculating Standard Volume from Weight

The system uses the following formulas for calculating volume from weight readings:

Reading	Formula
Weight in a vacuum	Corrected Density x Standard Volume
Weight in air	Standard Volume x (1.0001506 x Density x .0012202)

Appendix D – Functional Servers

About Functional Servers

Several JD Edwards World programs access functional servers. The purpose of functional servers is to provide a central location for standard business rules about entering documents, such as vouchers, invoices, and journal entries. These business rules establish the following:

- Data dictionary default values
- Field edits and valid values
- Error processing
- Relationships between fields or applications

The advantages of a functional server are:

- It reduces maintenance of entry programs because edit rules reside in one central location.
- You can standardize documents across all applications because you create them using the same business rules.
- Generally, the user interface (appearance and interaction) of a form is now separate from how a program works.

To set up business rules for an entry program

The steps for setting up business rules for an entry program are:

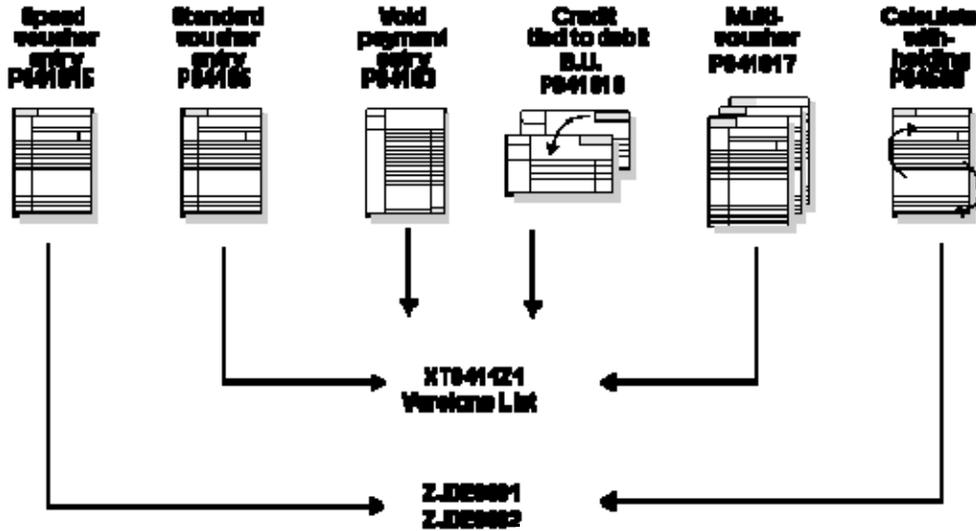
1. Create a DREAM Writer version for a specific functional server program (for example, XT0411Z1 for voucher entry).
2. Set the processing options within the version according to your company requirements.
3. Specify the version you want the entry program to use in the processing options for that entry program.

You can have all your entry programs use the same DREAM Writer version (and thus, use the same rules) or you can set up different DREAM Writer versions. JD Edwards World provides DREAM Writer version ZJDE0001 as the default functional server version for your entry programs.

Caution: Only the person responsible for system-wide setup should make changes to the functional server version. For more information about how to set up DREAM Writer versions, see the *Technical Foundation Guide*.

Example: Voucher Processing Functional Server

The following graphic shows the programs that use the voucher processing functional server. JD Edwards World provides two demo versions of the functional server, ZJDE0001 and ZJDE0002.



Appendix E – Overview to Container Management

Objectives

- To extract container transaction information from other systems
- To generate invoices for container deposits or rentals
- To review deposit layers and container transactions
- To set up container management

About Container Management Processing

Because containers are of high value and your company maintains ownership of them even when they are in the possession of your customers, it is essential that you carefully track container transactions. Container Management extracts information about container transactions from other systems and stores this information in tables specific to Container Management.

Complete the following tasks:

- Understand container management
- Process container transactions
- Set up container management

Container Management integrates with the Procurement and Sales Order Management systems to:

- Extract all information concerning container transactions from the other systems and maintain this information in tables specific to Container Management
- Track the movement of both empty and full containers
- Track customer deposit or rental charges for containers
- Determine when customers need to be invoiced for deposits and credited for the return of containers
- Print invoices for deposit and rental fees and credit memos for refunds
- Allow you to review container balance and customer deposit information and print the necessary reports

Before You Begin

- Verify that container information and container transactions have been entered and processed through the Procurement, Inventory Management, and Sales Order Management systems

See Also

- Entering Item Master Information (P4101)
- *Procurement Guide* for more information about processing purchase orders
- *Sales Order Management Guide* for more information about processing sales orders

Appendix F – Understand Container Management

About Container Management

The sale of products in containers involves a unique inventory process. Container Management extracts information about container transactions from other systems and stores this information in tables specific to Container Management. This allows you to closely track all transactions that involve containers.

You “loan” containers to your customers to store the product that they purchase until the product is depleted. Your customers then return the containers to you, usually in exchange for full containers. You maintain ownership of the containers while they are in the possession of your customer. These outgoing and incoming transactions, in which containers are not sold, present two main issues for your company:

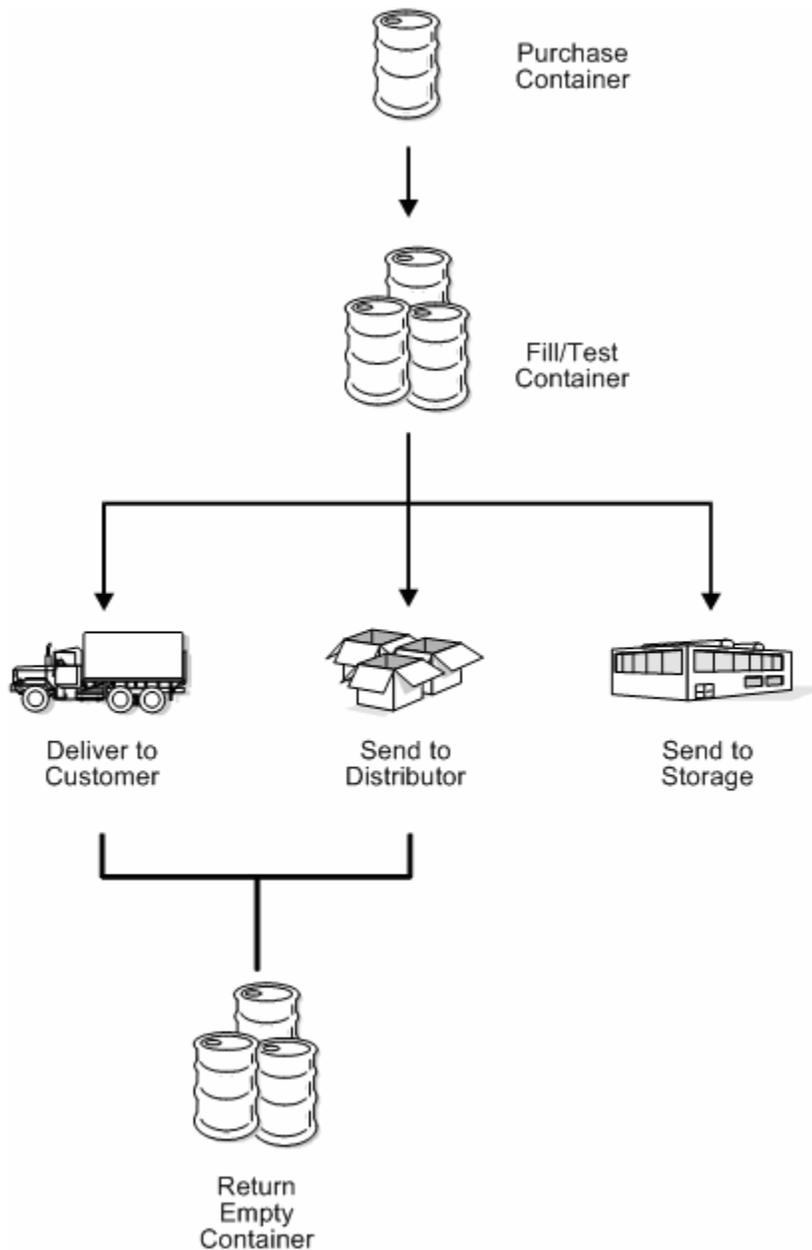
- The containers are of high value. You retain responsibility for them while they are in your customer’s possession. It is imperative that you are always able to track and account for these containers.
- Your customer pays a deposit fee or rental fee for each container. These fees must be tracked separately from the invoicing for the product.

Container Management allows you to address these issues and manage the regular exchange of containers and payment of deposit and rental fees and refunds.

This section contains the following:

- [The Container Life Cycle](#)
- [System Flow](#)
- [Business Considerations](#)

The Container Life Cycle



Normally, the supplying company purchases the container and introduces it into the cycle at the filling plant. After you fill and test the container, you either deliver it to the customer or send it to storage for future delivery. You can also send the full container to a distributor who, in turn, delivers it to the customer. The customer and distributor return the empty container to you after the product it contains has been used up.

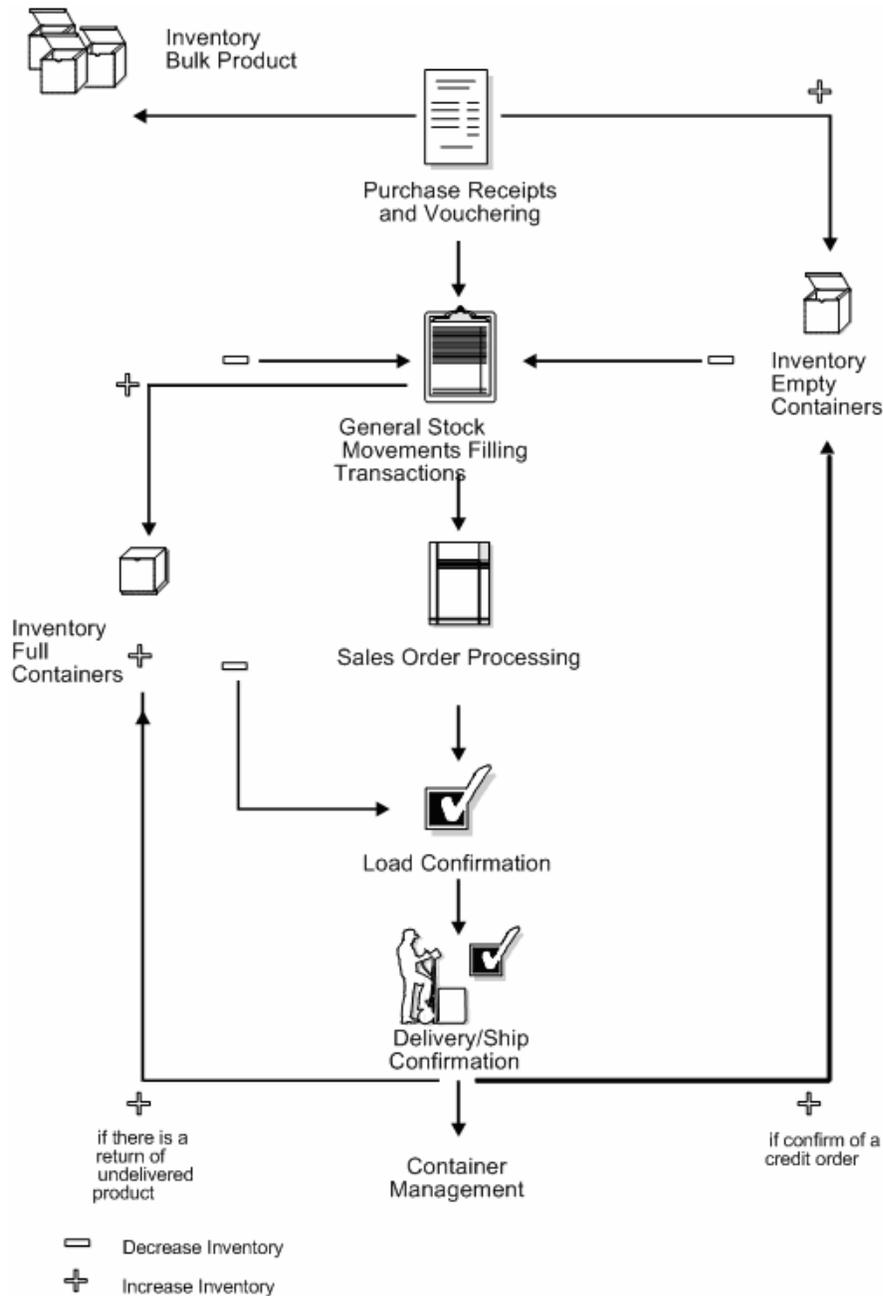
As the container repeats this cycle for a period of time, it eventually requires maintenance. Maintenance is critical for storing the product safely in the container. You need to inspect the container after every cycle through the filling plant. After a

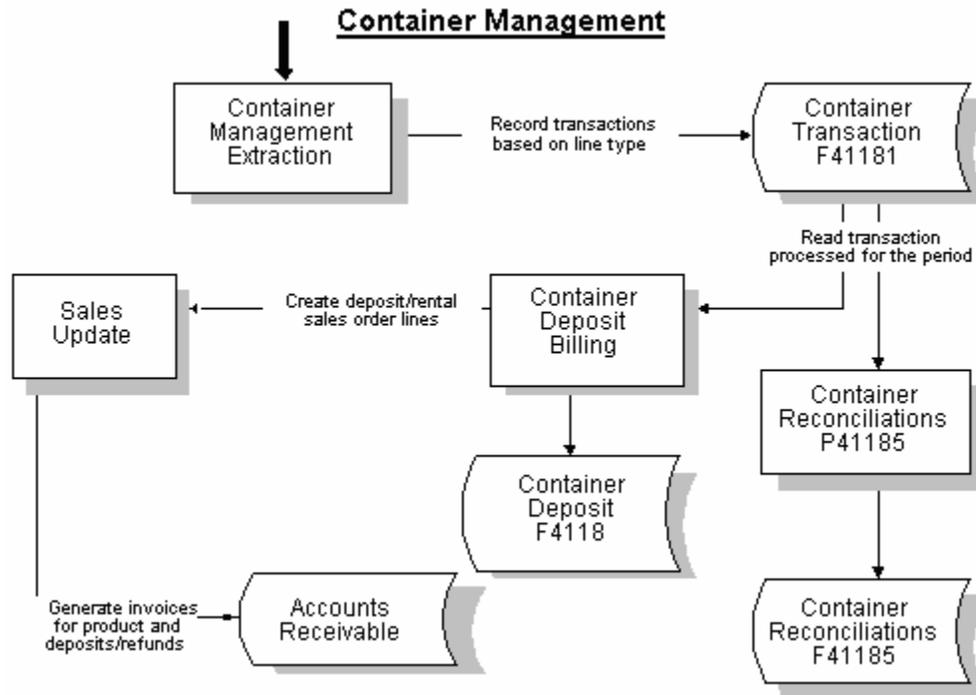
number of cycles, you can no longer use the container because it is damaged beyond repair, and you must scrap it.

You use Container Management to track the container through the cycles and manage the deposits and refunds that must be generated for these exchanges.

System Flow

You use Container Management only after you have processed the container through the Procurement and Sales Order Management systems. The following graphic demonstrates how Container Management fits into the overall system flow.





You must perform a number of tasks before you can use Container Management, including:

- Recording the receipt of the container
- Filling the container
- Processing sales orders

Recording the Receipt of the Container

You only purchase empty containers in limited quantity as they are needed to replace scrapped containers or to meet increased demand. You enter purchase orders in the Procurement system to record the ordering of new containers.

When the containers arrive, you record the receipt of the new containers to write a record to the Item Ledger (F4111) table (the Cardex), and to update the general ledger accounts. The Item Ledger table is the central repository of all inventory and cost movements. Each program from all other JD Edwards World systems that handles inventory writes records to this table whenever inventory and cost are affected. You then compare the receipt for the containers to the purchase order. If the Procurement system detects a variance, it writes a new record to the Item Ledger table and updates the general ledger accounts.

Usually, you enter the empty container into the Procurement system with no cost so that when it is filled with the bulk product, the cost of the full container will equal the cost of the bulk product. You can process the empty container as either an expenditure or a fixed asset. If you choose the latter, you can use the Fixed Asset system to track the empty container.

Filling the Container

You record the filling of containers in the Inventory Management system and, optionally, the Bulk Stock Control system. When you fill an empty container with a bulk product, you create a new packaged item, which is the full container. The Inventory Management system does the following when you fill a container:

- Reduces the inventory of empty containers
- Reduces the inventory of bulk product
- Increases the inventory of full containers

Processing Sales Orders

You enter a sales order when you receive the request of a purchase by a customer. You enter the full container on the sales order as the item that is sold to the customer. If the customer is returning empty containers at the same time as taking delivery of full ones, you also enter a credit for the number of empty containers on the sales order.

You record the shipping of items to confirm the reduction in inventory or to confirm the return of empty or full, undelivered containers to inventory. You perform this additional task within the Sales Order Management system. If you use the ECS Sales Order Management system, you also need the Load and Delivery Management system to perform this task.

When you perform a load and delivery confirmation, the system writes a record to the Item Ledger table to reduce the inventory of full containers. If you have undelivered containers, the system writes a record to the Item Ledger table to increase the inventory of full containers.

You must enter a credit order and perform a confirmation on the order to record empty containers that your customers return. The Sales Order Management system processes these credit orders and increases the number of empty containers in the Item Ledger table.

At this point Container Management interfaces with the other systems to extract container transaction information and maintain it in tables specific to Container Management.

Business Considerations

The JD Edwards World integrated systems provide the flexibility to accommodate the full range of business considerations in distribution industries. Additional features support the unique considerations of the energy and chemical industry. In addition the inventory management of containers, Container Management addresses the following business considerations:

- Types of containers
- Deposit and rental fee accounts
- Deposit layers
- Billing methods

Types of Containers

Container Management can be used to track any type of container, such as pallets, metal cylinders, or railroad cars.

In the energy and chemical industry, the most common type of container is the metal cylinder. The following two types of products are usually sold in metal cylinders:

- **Liquid Propane Gas (LPG)**-In some countries, and some remote locations, where there is no “piped” natural gas to houses, LPG stored in metal cylinder containers is the main source for cooking and heating. LPG also has common industrial applications, such as for cutting torches or as a propellant for packaged spray products.
- **Environmental Gases**-The environmental gases supplied in metal cylinder containers can be oxygen, argon, helium, nitrogen, hydrogen, and carbon dioxide. Because the Environmental Protection Agency (EPA) requires specific storage and transportation procedures for these gases, there is an even greater need to track them carefully.

These metal cylinder containers do not have significant structural differences. They vary primarily in size and capacity but are typically of the same design. They are built to be portable for the specialized uses required by each customer.

Companies usually carry an extremely large inventory of containers, most of which are in constant circulation with customers.

Deposit and Rental Fee Accounts

Your company should set up a separate account to record customer deposit and rental fees. You draw against this account only for container refunds. Deposit, rental fee, and refund invoices should not impact a customer’s normal revenue and cash accounts. In the case of a bad risk customer who returns containers but does not pay for the product, you can use the refunds issued for the returned containers to pay outstanding invoices.

Deposit Layers

The initial payment by the customer, the deposit, limits the customer in the number of containers that you will allow for exchange without charging additional deposits. Container Management stores each deposit received from a customer as a layer. Container Management creates additional deposit layers when the customer takes delivery of containers exceeding the number allowed by the initial deposit.

For example, if a customer initially deposits \$100,000.00 for 10,000 containers at a rate of \$10.00 each and then takes delivery of 11,000 containers, you charge the customer for the 1,000 extra containers at the current deposit rate. When you receive the additional payment for the 1,000 containers, Container Management creates a new layer for the deposit.

Container Management uses the First In/First Out (FIFO) method of accounting to calculate refunds. With this method, Container Management depletes the oldest deposit layer first when issuing refunds. If the deposit rate for a customer changes, the rate used to calculate the refund is the rate used in the oldest, undepleted layer.

The following example demonstrates how the system depletes deposit layers using the FIFO method. In this case, you refund the deposit for the 3,000 containers from the earliest layer, which is the layer created on 01/01/09. This reduces the balance for that layer's deposit to 2,000 containers at \$20.00 each.

FIFO Refund Processing — Period Ending 02/28/17			
Description	Quantity	Rate	Amount
1-Jan-12	5,000	20.00	100,000.00
15-Dec-15	3,000	30.00	90,000.00
10-Feb-17	1,000	40.00	40,000.00
Opening Balance	9,000		230,000.00
Quantity Delivered	5,000		
Quantity Returned	8,000		
Net Delivered/Returned	-3,000		
Closing Balance	6,000		
Net Adjusted Deposit	-3,000	20.00	(60,000.00)
Adjusted Deposit Balance			
1-Jan-12	2,000	20.00	40,000.00
15-Dec-15	3,000	30.00	90,000.00
10-Feb-17	1,000	40.00	40,000.00
Closing Balance	6,000		170,000.00

Billing Methods

To determine how a customer is billed for deposits and rentals, Container Management uses the following two methods:

- Summary method
- Transaction method

Summary Method

With the summary method, Container Management calculates the net quantity and amount for the transactions that occur in a period and issues an invoice or refund

based on the total outcome. In the example below, the first return and delivery is an even exchange for the customer. The second exchange on 01/15/95 is not. The summary method allows the customer to make these exchanges without being charged. The only criteria for being charged an additional deposit is if the delivered quantity nets more than 5,000 containers.

Customer Transaction Record				
Description	Date	Quantity	Rate	Amount
Initial Deposit	01 /01 /17	5,000	20.00	100,000.00
Returned	01 /10 /14	(500)		
Delivered	01 /10 /14	500		
Returned	01 /15 /14	(1,000)		
Delivered	01 /15 /14	800		
Returned	01 /25 /14	(800)		
Delivered	01 /25 /14	1,000		
Balance		5,000		100,000.00

Transaction Method

With the transaction method, Container Management processes each transaction recorded for the customer. You refund for each return and charge for each delivery. This method varies significantly from the summary method when the deposit rate changes. The example below demonstrates the results when the system uses the transaction method in conjunction with the FIFO accounting method. In this case, you charge the customer even though the customer does not surpass the initial number of containers on deposit.

Customer Transaction Record				
Description	Date	Quantity	Rate	Amount
Initial Deposit	01 /01 /14	5,000	20.00	100,000.00
Returned	01 /10 /14	(500)	20.00	(10,000.00)
Delivered	01 /10 /14	500	20.00	10,000.00
Returned	01 /15 /14	(1,000)	20.00	(20,000.00)
Delivered	01 /15 /14	800	30.00	24,000.00
Returned	01 /25 /14	(800)	20.00	(16,000.00)
Delivered	01 /25 /14	1,000	30.00	30,000.00
Balance		5,000		118,000.00

Appendix G – Set Up Container Management

Setting Up Container Management

Before you can use Container Management, you must set up a number of features to define the information that the system uses to process container transactions. Setting up Container Management includes the following tasks:

This section contains the following:

- [Setting Up Container Item Cross-References](#)
- [Setting Up Container Preferences](#)
- [Setting Up Pricing Schedules](#)

In addition to these tasks, you need to set up the following features:

- Order line types
- Order activity rules
- Item types
- Document types
- User defined codes
- Print messages
- Automatic accounting instructions
- Invoice cycle calculation

How Do I Set Up Container Order Line Types?

You set up order line types to define how the system will process a sales order detail line. The Container Management Extraction Server extracts information from the sales order by line types that identify containers. For example, the following line types allow for the correct processing of container transactions:

- CT (Container Transactions) for full containers
- A (Asset Movements) for empty containers
- EC (Container Deposit/Refund) for deposit/refund sales order lines

In addition, JD Edwards World recommends that you set up each line type in the following ways to interface accurately with other systems:

Line Type	Setup
Full container	You should set up full containers like basic stock items, to interface with the G/L and the Inventory Management, Accounts Receivable, and Accounts Payable systems.
Empty container	You should set up empty containers to interface only with the Inventory Management system, without writing to the G/L, the Accounts Receivable system, or the Accounts Payable system. You should also enter a Y in the Reverse Sign field, since all sales order entries containing empty containers will be credit entries for returns.
Deposit/refund sales order	You should set up the line type for container deposit sales order lines to interface only with the G/L and the Accounts Receivable system.

See Also

- *Setting Up Order Line Types (P40205) in the Sales Order Management Guide*

How Do I Set Up Container Order Activity Rules?

You set up order activity rules to define a series of status codes that tells the system which processes each type of order must go through. You must create order activity rules for each order type and line type combination you use.

If you set up line types and order types for empty and full containers, you must set up order activity rules for the combination of each line type and order type. If you set up a different order type for container deposit sales orders, you use this order type. Otherwise, you use the regular order type for sales orders, such as SO.

JD Edwards World recommends that you set up order activity rules for each line type to be processed in the following ways:

Line Type	Setup
Empty container	Empty containers should be processed through the following steps: <ul style="list-style-type: none"> ▪ Enter a return order ▪ Ship confirm the return order ▪ Run extraction ▪ Sales journal update
Full container	Full containers should be processed through the following steps: <ul style="list-style-type: none"> ▪ The normal steps for processing a sales order ▪ An additional step for container extraction following ship confirmation

Line Type	Setup
Container deposit/refund sales order	<p>Container deposit/refund sales order lines should be processed through the following steps:</p> <ul style="list-style-type: none"> ▪ Create deposit/refund order ▪ Print invoices ▪ Sales journal update

See Also

- *Setting Up Order Activity Rules (P40204) in the Sales Order Management Guide*

How Do I Set Up Container Item Types?

You perform standard item entry to define the following three items for Container Management:

- Empty containers
- Full containers
- Product, which can be a packaged item or, if you have installed the Bulk Stock Control system, a bulk item

You use the Item Master Information program to enter item information, such as the item number and description, price and costing methods, and availability and commitment rules. You also enter the line types for full and empty containers that you set up on the Order Line Type form.

When you define container units of measure, you should set up empty containers with a weight close to zero (for example, 1 EA = 0.00002 LT or 0.00002 KG) so the system will not factor in the weight of the container during unit of measure conversion to determine the price of the full container.

If you are an Energy and Chemical Solutions customer and have installed the Bulk Stock Control system, you can set up the following:

- Bulk item
- Tank
- Default tank information

You follow the normal procedures for setting up a tank using the Tank Master Maintenance and Default Tank Information forms. You do this to specify structural information about the tanks that are used to store the bulk product. The system retrieves this information when processing transactions to calculate volume.

See Also

- *Entering Item Master Information (P4101)*
- For ECS customers only, *Setting Up a Tank (P415001) and Defining Default Temperature and Density by Tank (P415108) in the Bulk Stock Control Guide*

How Do I Set Up Container User Defined Codes?

You can optionally set up user defined codes (UDCs) to customize several features of Container Management, such as the following:

- Document types
- Status codes
- Line types
- Item cross-reference types

Each system has its own UDC types. UDCs are referenced by the system number and type. For example, Container Management is coded to system 41, and the UDC type for document types is DT.

JD Edwards World has already set up some codes in the UDC table. When a UDC is referred to as hard-coded, you should not change it. Programming has been defined to work with hard-coded UDCs. If you change the UDC, the programming will not work correctly. You can, however, add UDCs to meet your own specific business needs.

You can define the following document types to simplify the tracking of container transactions:

- Deposit, rental, and refund invoice types
- Deposit, rental, and refund sales order types

You must enter the document types for deposit, rental, and refund sales orders in the 40/IU UDC table so that these orders update inventory when you confirm shipments.

See Also

- *Setting Up User Defined Codes (P00051)* in the *Technical Foundation Guide*

How Do I Set Up Container Print Messages?

You set up print messages to produce customized messages on any documents that you print. For example, you might want to customize your invoice for container deposits and refunds. You can set up a print message to give this invoice a *Container Deposit Invoice* title. You might also want to set up different print messages for deposit and rental invoices.

To set up print messages, you must first add a code for the print message in UDC table 40/PM. You then create the print message and add it to the document on which you want it to appear.

If you have both deposit and rental customers and use different print messages for them, the best place to specify the appropriate print message to use is in the Print Message preference. This preference will give you the flexibility of printing different messages for different customers.

See Also

- *Defining a Message (P4016) and Defining Print Information for Messages and Item Notes*
- *Setting Up Container Preferences (P40300)*

How Do I Set Up Container Automatic Accounting Instructions?

Automatic accounting instructions (AAIs) are the user defined bridge between your day-to-day functions, chart of accounts, and financial reports. The system uses AAIs to determine how to distribute G/L entries that it generates.

For distribution systems, you must create AAIs for each unique combination of company, document type, and G/L class that you anticipate using. Each AAI points to a specific G/L account consisting of a business unit, an object, and a subsidiary.

Once you define AAIs, the system knows how to record the transactions. When you run the Update Customer Sales program, the system creates entries in the appropriate accounts.

You should set up the document type you defined for container deposit/refund sales orders in combination with AAI number 4230 (Revenue). You should set up this AAI to create records in a separate liability account for customer deposits and rentals, rather than the revenue account. You draw against this account only for container refunds.

See Also

- *Setting Up Automatic Accounting Instructions (P40901)*

How Do I Set Up Container Invoice Cycle Calculation?

You set up invoice cycles to control how the Cycle Billing program calculates scheduled invoice dates. When you set up invoice cycles, you apply different invoice rules and schedules to different customer and item combinations. For example, one customer might prefer an invoice at the end of the month for all shipments made during that month, and another customer might want a weekly invoice for specific items.

You set up an invoice cycle calculation rule to define the type of calculation that the system uses to compute an invoice date. You can then enter test dates to review the calculated invoice dates and ensure that you have set up the calculation correctly. If the calculation rules are bi-weekly, semi-monthly, or at the end of each month, you must also set up scheduled invoice date ranges.

Once you set up invoice cycles, you can assign them to customer and item combinations with the Invoice Cycle preference. You can later revise scheduled invoice dates, if necessary.

See Also

- *Setting Up Container Preferences (P40300)*
- *Setting Up Invoice Cycles (P49080) in the Sales Order Management Guide*

Setting Up Container Item Cross-References



From Container Management (G4118), enter 29
From Container Management Setup (G41184), choose Item Cross-Reference Types

Container Management tracks only empty container types. You set up item cross-references so the system can track full containers in the same way as empty containers. This allows the Container Management Extraction Server to extract full container transactions along with empty container transactions and write this information to the Container Transaction table.

Complete the following tasks:

- Define item cross-reference types
- Set up item cross-reference relationships

You must first define the item cross-reference types in UDC table 41/DT. You set up the container type with a special handling code. You then use the Item Cross-Reference program to set up item cross-reference relationships. You first locate the item number of a full container, and then you create the cross-reference relationship to the item number of the empty container.

The special handling code in the UDC table instructs the system to validate the cross-referenced items against the Item Master (F4101) table. This allows the system to verify that the cross-referenced items exist as valid item numbers.

See Also

- *Setting Up Item Cross-Reference (P41040)*

To define item cross-reference types

On Item Cross Reference Types

00051 Item Cross Reference Types

Tools Help

ORACLE JD Edwards World

URL Document Email World Resources Support

Field Sensitive Help
Display Error Message
Display Functions
Exit Program
More Details
User Defined Code Typ
Repository Services
Redisplay Previously C
Memo (Cursor Sensitive
Where Used
Alternate Lang Desc (C
Print User Defined Code
Clear Screen

00051 Item Cross Reference Types

Action Code

System Code
User Defined Codes
Skip To Code
Cross Reference Type Code

Code	Description	Description-2
R	Associated Products	
B	Bar Codes	
C	Customer Part Numbers	
CT	Container Type	Validated against Item Master
II	Internal Item	Validated against Item Master
M	Manufacturer Part Number	
NR	Master Routings	Hard Coded in Shop Floor
S	Replacements	
SS	Substitutes	Hard Coded in Shop Floor
UP	Superseding Part	
UP	UPC/EAN code in Aggregate SCC	Hard Coded for UCC 128
VN	Vendor Part Number	

F5=Code Types F14=Memo F15=Where Used F18=Translate F21=Print F24=More

1. Complete the following fields:

- Character Code
- Description
- Description-2

2. Access the detail area.

00051 Item Cross Reference Types

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Field Sensitive Help
Display Error Message
Display Functions
Exit Program
More Details
User Defined Code Typ
Repository Services
Redisplay Previously C
Memo (Cursor Sensitive
Where Used
Alternate Lang Desc (C
Print User Defined Code
Clear Screen

00051 Item Cross Reference Types

Action Code

System Code
User Defined Codes
Skip To Code
Cross Reference Type Code

Code	Description	Description-2
R	Associated Products	
Special Handling Code		Hard Coded Y/N
B	Bar Codes	
Special Handling Code		Hard Coded Y/N
C	Customer Part Numbers	
Special Handling Code		Hard Coded Y/N
CT	Container Type	Validated against Item Master
Special Handling Code		Hard Coded Y/N
II	Internal Item	Validated against Item Master
Special Handling Code		Hard Coded Y/N
M	Manufacturer Part Number	
Special Handling Code		Hard Coded Y/N
NR	Master Routings	Hard Coded in Shop Floor
Special Handling Code		Hard Coded Y/N

F5=Code Types F14=Memo F15=Where Used F18=Translate F21=Print F24=More

3. Enter 1 in the following field:

- Special Handling Code

Field	Explanation
Code	This column contains a list of valid codes for a specific user defined code list. The number of characters that a code can contain appears in the column title.
Special Handling Code	<p>A code that indicates special processing requirements for certain user defined code values. The particular value you enter in this field is unique for each user defined code record type.</p> <p>The system uses the special handling code in many ways. For example, special handling codes defined for Language Preference specify if the language is double-byte or if the language does not have uppercase characters. Programming is required to activate this field.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>If a “P” is in the second position, the system identifies that unit of measure as a potent unit of measure.</p>

To set up item cross-reference relationships

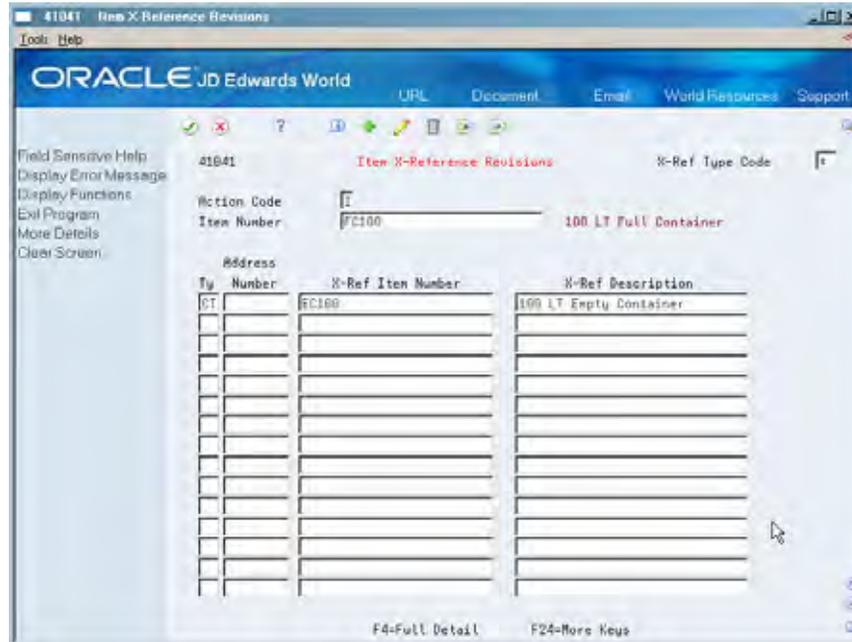
From the Container Management Setup menu (G41184), choose Item Cross-Reference.

On Item Cross-Reference



1. Complete the following field:

- Item Number
2. Enter 1 in the Option field to access Item X-Reference Revisions.



3. Complete the following fields:
- Cross-Reference Type
 - X-Ref Item Number
 - X-Ref Description

Field	Explanation
X-Ref Type Code	<p>A code (UDC table 41\DT) that identifies the type of cross-reference you have set up for this customer. The system contains examples for:</p> <ul style="list-style-type: none"> ▪ Substitutes ▪ Replacements ▪ Bar Codes ▪ Customer Numbers ▪ Supplier Numbers
X-Ref Item Number	<p>The cross-reference item number that the system assigns to an item number. A cross-reference number allows you to use a supplier's item number if it is different from your own item number when you are processing or printing an order.</p>

What You Should Know About

Empty container cross-references

You should ensure that only full containers have cross-references. Do not set up empty containers with cross-reference relationships.

Setting Up Container Preferences

	From Container Management (G4118), enter 29 From Container Management Setup (G41184), choose Preferences Profiles
-----------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

You use preferences to customize the way sales orders are processed. For Container Management, you set up preferences for customers and customer and item combinations to define the following:

- The type of container transactions, deposits or rentals, for which you will bill your customer
- The type of invoice, summary or transaction, you will send your customer for container transactions
- The billing cycle for the customer and container item combination
- The pricing unit of measure

You must do the following to create preferences:

- Activate preferences
- Define the preference hierarchy
- Create the specific preferences

Before you can create a preference, you must make sure it exists on the preference master. If it does not exist, you must add it to the preference master. Once the preferences exist in the preference master, you activate all of the preferences you need to use in Container Management. You then define the preference hierarchy to indicate the order in which you want the system to apply the preferences. You must also set the appropriate processing options for specific programs, such as Sales Order Entry, to use preference information.

Complete the following tasks to set up container preferences:

- Create a Container Deposit/Rental preference
- Create an Invoice Cycle preference
- Create a Pricing Unit of Measure preference
- Create a Print Messages preference

See Also

- *Setting Up Preferences and Creating Preferences in the Sales Order Management Guide*

Creating a Container Deposit/Rental Preference

In the Container Deposit/Rental preference, you define the following three options for customer and item combinations:

- Specify whether the customer should be charged deposit or rental fees for the use of containers
- Specify whether the customer will be sent a summary or transaction type invoice for container deposits or rentals
- Instruct the system to use the G/L offset defined in the preference rather than the one defined in the Item Master table, so that you can separate potential sales of empty containers from the actual deposits

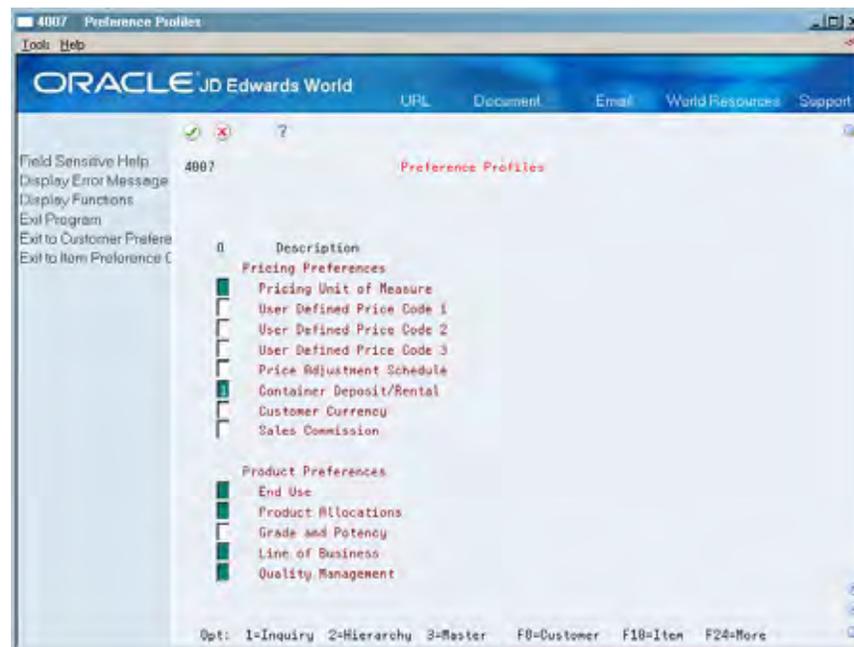
Note: On the Preference Master form, you must instruct the system not to enable the effective quantities fields for the Container Deposit/Rental preferences. If the effective quantities fields are enabled, the system does not process credit orders.

Before You Begin

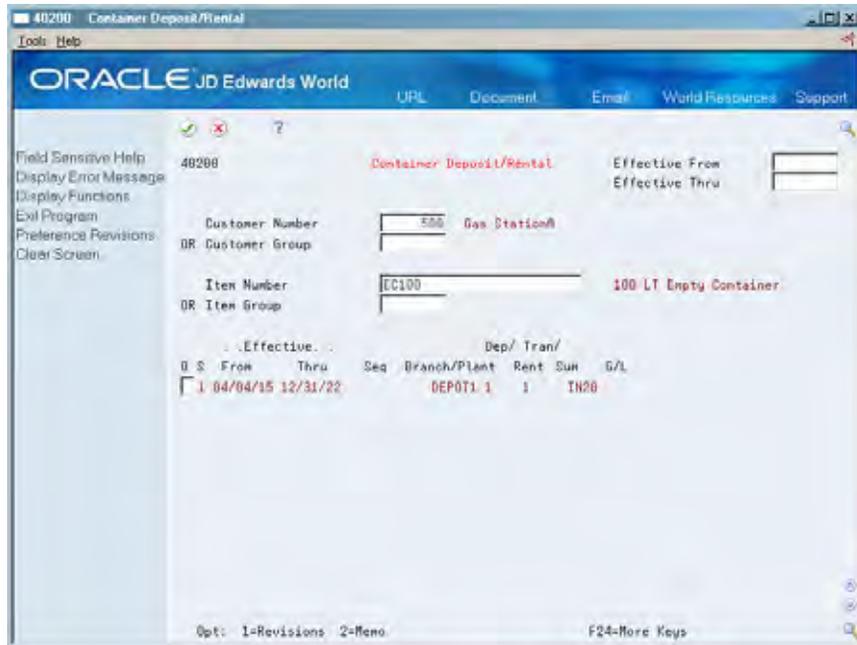
- Verify that the G/L Offset account for container deposits or rentals has been created

To create a Container Deposit/Rental preference

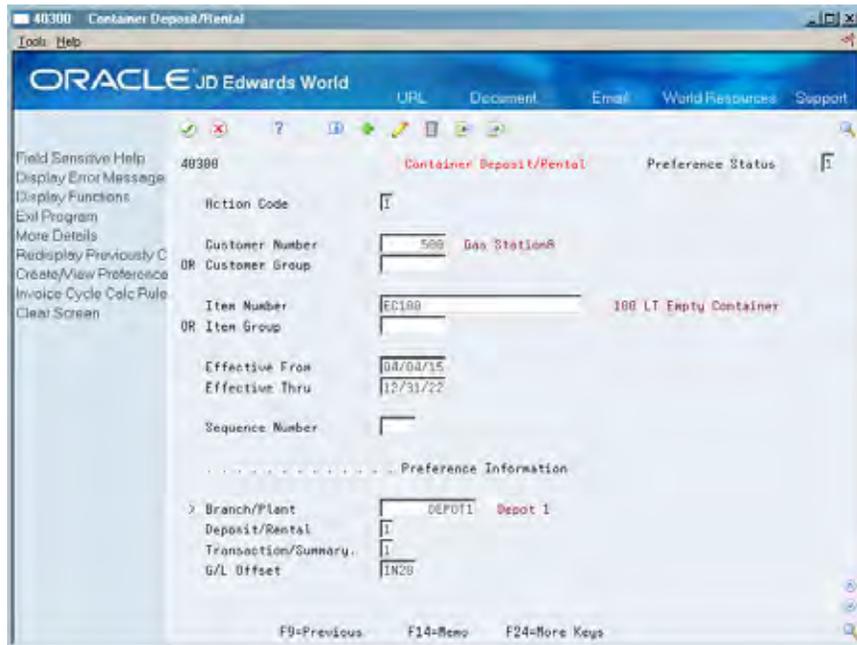
On Preference Profiles



1. Access the preference inquiry for the Container Deposit/Rental preference.



2. On the Container Deposit/Rental preference inquiry form, access the Preference Revisions form.



3. On the Container Deposit/Rental preference revisions form, complete one or more of the following fields to define customer and item combinations:
 - Customer Number
 - Customer Group
 - Item Number
 - Item Group

4. To define specific preference information, complete the following fields:

- Effective From
- Effective Thru
- Sequence Number
- Branch/Plant
- Deposit/Rental
- Transaction/Summary
- G/L Offset

Field	Explanation
Customer Group	Customer types that a customer can be grouped into for each of the different preference types.
Item Group	Item types that a item can be grouped into for each of the different preference types.
Sequence Number	<p>A sequence or sort number that the system uses to process records in a user defined order.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>Use this field when you have multiple preferences for the same customer/item combination, effective period, and quantity range. The sequence determines the order that the system searches for preference records with otherwise identical fields. The system searches records in ascending numerical order, that is, from lowest to highest.</p>
Deposit/Rental	<p>A code that indicates whether a customer pays a deposit fee or a rental charge for empty containers. Valid values are:</p> <p>1 Deposit Fee</p> <p>2 Rental Charge</p>
Transaction/Summary	<p>A code that indicates whether container deposits are charged/refunded for each transaction or summarized over a billing period. Valid values are:</p> <p>1 Transaction</p> <p>2 Summarized</p> <p>When you set this code, you do not affect rental transactions.</p>

Field	Explanation
G/L Offset	<p>The table of Automatic Accounting Instruction accounts that allows you to predefine classes of automatic offset accounts for Accounts Payable, Accounts Receivable, and other systems.</p> <p>G/L offsets might be assigned as follows:</p> <ul style="list-style-type: none"> ▪ blank or 1210- Trade Accounts Receivable ▪ RETN or 1220 - Retainages Receivable ▪ EMP or 1230 - Employee Accounts Receivable ▪ JIB or 1240 - JIB Receivable (See A/R Class Code - ARC) ▪ blank or 4110 - Trade Accounts Payable ▪ RETN or 4120 - Retainage Payable ▪ OTHR or 4230 - Other Accounts Payable (See A/R Class code - APC) <p>If you leave this field blank during data entry, the system uses the default value from the Customer Master Information table (F0301) or the Supplier Master Information table (F0401). The post program uses the G/L Offset class to create automatic offset entries.</p> <p>Note: Do not use code 9999. It is reserved for the post program and indicates that offsets should not be created.</p>

Creating an Invoice Cycle Preference

	<p>From Container Management (G4118), enter 29 From Container Management Setup (G41184), choose Preference Profiles</p>
-------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

You create an Invoice Cycle preference for the customer and container item combination to define when invoices for deposit or rental fees are sent to the customer. For example, one customer might prefer a monthly invoice at the end of the month for all shipments made during that month. Another customer might want a daily invoice.

After orders are confirmed for delivery, they are processed by the Cycle Billing program. The program accesses the Invoice Cycle preference and calculates the scheduled invoice date based on the invoice cycle calculation rules and scheduled invoice date ranges. Generally, you set up invoice cycle calculation rules and scheduled invoice date ranges during the install process. At a minimum, you should revise scheduled invoice dates on an annual basis.

You can access the Invoice Cycle Calculation Rule program from the Invoice Cycle preference form. You do not have to set up invoice cycle calculation rules each time you add a preference.

Before You Begin

- Verify that the invoice cycle calculation rule has been set up

See Also

- *Setting Up Invoice Cycles (P49080) in the Sales Order Management Guide*

To create an Invoice Cycle preference

On Preference Profiles

1. For the Invoice Cycle preference, access the preference inquiry.

Oracle JD Edwards World interface showing the 'Invoice Cycle' preference inquiry form. The form displays the following information:

Customer Number: 500 Gas Station#
 Item Number: EC100 100 LT Empty Container

Effective From	Effective Thru	Seq	Branch/Plant	Inu	Descrip
04/25/15	12/31/22	1			EDM End of Mont

Opt: 1-Revisions 2-Menu F24-More Keys

2. On the Invoice Cycle preference inquiry form, access the Preference Revisions form.

The screenshot shows the 'Invoice Cycle' preference form in Oracle JD Edwards World. The form is titled '40300 Invoice Cycle' and includes a 'Preference Status' field. The main data area contains the following fields:

Action Code	I	
Customer Number	500	Gas Station
Customer Group		
Item Number	EC100	100 LT Empty Container
Item Group		
Effective From	04/25/15	
Effective Thru	12/31/22	
Sequence Number		
Preference Information		
Branch/Plant		
Invoice Cycle	EOM	End of Month

At the bottom of the form, there are function key prompts: F9=Previous, F14=Memo, and F24=More Keys.

3. On the Invoice Cycle preference revisions form, complete one or more of the following fields to define customer and item combinations:
 - Customer Number
 - Customer Group
 - Item Number
 - Item Group
4. To define specific preference information, complete the following fields:
 - Effective From
 - Effective Thru
 - Quantity From
 - Quantity Thru
 - Sequence Number
 - Branch/Plant
 - Invoice Cycle

Field	Explanation
Invoice Cycle	<p>A code that defines the method of invoicing used by the Cycle Billing program. For example, the invoice cycle could be daily, weekly, monthly, and so on. This is a user defined code field.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>For Invoice Cycle Preference:</p> <p>The system uses the value you enter in this field to load the Sales Order Detail Tag table (F49211).</p> <p>Do not use the Invoice Cycle preference if you want an invoice to accompany the delivery documents for a sales order.</p>

Creating a Pricing Unit of Measure Preference

	<p>From Container Management (G4118), enter 29</p> <p>From Container Management Setup (G41184), choose Preference Profiles</p>
-----------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------

You use the Pricing Unit of Measure preference to override the pricing unit of measure on the sales order. The system determines the pricing unit of measure for a sales order detail line based on the information you have entered on the Item Master and in the Sales Price Retrieval Unit of Measure field on the System Constants. You can use this preference to assign a different pricing unit of measure for customer and item combinations based on the branch/plant.

The Pricing Unit of Measure preference also overrides the Sales Price Based On Date in the System Constants. The Sales Price Based On Date determines how the Price Effective Date in the Sales Order Header and Sales Order Detail tables will be updated.

You can use the Pricing Unit of Measure preference to determine the daily rental rate for a specific customer and container combination. This allows the system to calculate either a deposit rate or a rental rate for a container. If you create a unit of measure UDC for a rental rate per day in the UDC table 00/UM, you can use this code in the Pricing Unit of Measure preference for a customer and container combination.

For example, you can set up an empty container with a deposit price of \$30. If customer 502 pays a rental fee for this container, you can set up a unit of measure UDC for a rental rate of \$2.00 per day and enter this code in the Pricing Unit of Measure preference for this customer and container combination. The preference will override the pricing unit of measure in the sales order for this customer. Customer 502 is charged \$2.00 per day for the use of this container, while another customer is charged the usual deposit rate of \$30.

Before You Begin

- Set up the sales price retrieval unit of measure in System Constants. See *Defining System Constants*.

- Verify that a base price record exists for the pricing unit of measure to be entered in this preference.

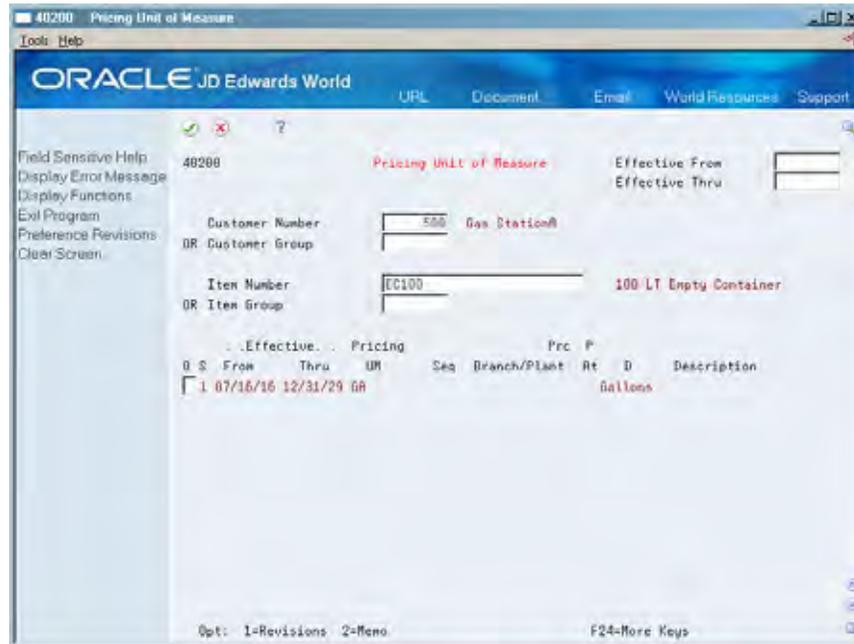
See Also

- *Working with Base Pricing (P4106) in the Sales Order Management Guide*

To create a Pricing Unit of Measure preference

On Preference Profiles

1. For the Pricing Unit of Measure preference, access the preference inquiry.



2. On the Pricing Unit of Measure inquiry form, access the Preference Revisions form.

The screenshot shows the 'Pricing Unit of Measure' form in Oracle JD Edwards World. The form is titled '40300 Pricing Unit of Measure' and includes a 'Preference Status' field. The main data fields are:

- Action Code: []
- Customer Number: 500 Gas StationA
- Customer Group: []
- Item Number: EC100 100 LT Empty Container
- Item Group: []
- Effective From: 07/16/15
- Effective Thru: 12/31/29
- Sequence Number: []

The 'Preference Information' section is expanded, showing:

- Branch/Plant: []
- Pricing U/M: Gn Gallons
- Price at Reb/Std: []
- Price Based On Date: Transaction/Order Date

At the bottom of the form, there are function keys: F9=Previous, F14=Resp, and F24=More Keys.

3. On the Pricing Unit of Measure preference revisions form, complete one or more of the following fields to define customer and item combinations:
 - Customer Number
 - Customer Group
 - Item Number
 - Item Group
4. To define specific preference information, complete the following fields:
 - Effective From
 - Effective Thru
 - Quantity From
 - Quantity Thru
 - Unit of Measure

Field	Explanation
Pricing U/M	<p>A code (system 00/type UM) that indicates the unit of measure in which you usually price the item.</p> <p><i>Form-specific information</i></p> <p>For Pricing Unit of Measure Preference:</p> <p>When you specify a unit of measure on the Pricing Unit of Measure preference, the system fills or overrides the pricing unit of measure attached to the item through the item master for the customers/items to which this preference applies. If you leave this field blank on the Pricing Unit of Measure (ECS) preference, the system does not override the default value supplied by the item master.</p> <p>This preference is applied in order entry.</p>

Creating a Print Messages Preference

	<p>From Container Management (G4118), enter 29</p> <p>From Container Management Setup (G41184), choose Preference Profiles</p>
-----------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------

Use the Print Messages preference to choose the messages you want to automatically print on documents for a particular customer and item combination.

The system applies this preference when a document is printed, not during order entry. The Print Messages preference does not override any other messages you set up in Customer Billing Instructions and Item Branch/Plant information.

Note: Leaving any of the key fields blank indicates you want to specify all valid values for that field. For example, a blank in the Business Unit field causes the system to apply the Print Messages (ECS) preference to all business units.

Before You Begin

- Verify that print messages have been created

See Also

- *Defining a Message (P4016)*

To create a Print Messages preference

On Preference Profiles

1. For the Print Messages preference, access the preference inquiry.

40200 Print Messages

ORACLE JD Edwards World

Tools Help

Field Sensitive Help 40200 Print Messages Effective From Effective Thru

Display Error Message

Display Functions

Exit Program

Preference Revisions

Clear Screen

Customer Number

OR Customer Group

Item Number 1001 Pen & Pencil Set

OR Item Group

Effective From Effective Thru

Seq	Branch/Plant	Message	Trn	Number	Business	Use
1	01/01/14	12/31/22		30	01FFPR00	

Opt: 1=Revisions 2=Memo F24=More Keys

- On the Print Messages preference inquiry form, access the Preference Revisions form.

40300 Print Messages

ORACLE JD Edwards World

Tools Help

Field Sensitive Help 40300 Print Messages Preference Status

Display Error Message

Display Functions

Exit Program

More Details

Redisplay Previously C

Create/View Preference

Invoice Cycle Calc Rule

Clear Screen

Action Code

Customer Number

OR Customer Group

Item Number 1001 Pen & Pencil Set

OR Item Group

Effective From 01/01/14

Effective Thru 12/31/22

Sequence Number

Preference Information

> Branch/Plant 30 Memphis Distribution Center

> Mode of Trn

> Carrier Number

> Line of Business

> End Use

> Duty Status

> Payment Instrument

Print Message 01FFPR00 Default A/R

Compartment must be cleaned

F9=Previous F14=Memo F24=More Keys

- On the Print Messages preference revisions form, complete one or more of the following fields to define customer and item combinations:
 - Customer Number
 - Customer Group
 - Item Number
 - Item Group

4. To define specific preference information, complete the following fields:

- Effective From
- Effective Thru
- Quantity From
- Quantity Thru
- Branch/Plant
- Print Message

Field	Explanation
Print Message	<p>A code (table 40/PM) that represents a predefined message set up on Print Message Revisions. You can print the message on sales orders, purchase orders, and so forth.</p> <p style="text-align: center;"><i>Form-specific information</i></p> <p>Unlike other preferences, the system does not use the Print Message preference to override fields. The system adds the print message you enter here to any other print messages you have selected.</p>

Setting Up Pricing Schedules

You normally set up the deposit and rental rates a customer will pay for the use of containers before the start of business with that customer. You can use the standard method of setting up base pricing in the Sales Order Management system to define the deposit or rental rates for any combination of customers, customer groups, items (containers), or item groups.

If it is installed, you can also use the Advanced Pricing system to set up pricing schedules for deposits and rentals.

You can set up the base price of the empty container to equal the deposit or rental rate (if you are not using the Advanced Pricing system). The only time the system uses this price is when it processes deposit/refund sales order lines. You can set up the base price of the full container to equal the price of the product. This is the amount for which you invoice the customer for the sale of the product.

See Also

- *Working with Base Pricing (P4106) in the Sales Order Management Guide*
- *Building an Adjustment Schedule (P4070) in the Advanced Pricing Guide*

Appendix H – Process Container Transactions

Processing Container Transactions

You process container transactions to record information about containers and container deposits and rental fees in the Container Transaction (F41181), Container Reconciliation (F41185), and the Container Deposit (F4118) tables. Complete the following tasks to process container transactions:

This section contains the following:

- [Running Container Management Extraction](#)
- [Processing Deposits, Rental Fees, and Refunds](#)
- [Generating Reports](#)
- [Reviewing Container Information](#)

You run the Container Management Extraction Server usually at the end of the day to extract container transaction information from the Sales Order Detail (F4211) table. You then run the Container Deposit Billing batch program to create sales order lines for rental fees or deposits on containers that your company has delivered to customers and to create credits for refunds on containers that your customers have returned.

You can generate reports to review the container transaction activity for each customer and the number of containers you have on hand. You can also use the inquiry programs in Container Management to review the deposit layers for each customer and analyze container transactions.

Running Container Management Extraction



From Distribution/Logistics System (G4), choose Container Management From Container Management (G4118), choose Container Extraction Server

You run the Container Management Extraction Server usually at the end of the day to extract container transaction information from the Sales Order Detail (F4211) table. The program copies this information to the Container Transaction (F41181) table.

The Container Management Extraction Server extracts information for full and empty containers. You set up Container Management to track full containers as empty containers. You do this by creating a cross-reference from the full container item type to the empty container item type. You then set the appropriate processing

option for the Container Management Extraction Server to instruct the system to verify any cross-referenced item numbers.

In updating the Container Transaction table, the program does the following:

- Extracts information for items with line types you have set up for full and empty containers
- Verifies item cross-references
- Retrieves preferences by customer and item to determine whether the customer pays a deposit or rental fee for containers and whether a customer is invoiced by the summary or transaction method
- Calculates the scheduled invoice dates of orders
- Updates the status of orders involving container transactions based on the processing options or the order activity rules

The program stores container transaction information in the Container Transaction table so that the system can track container movements and invoicing separately from other systems. For example, when the Sales Order Management system moves sales order lines to the Sales Order History (F42119) table, the container transaction information remains intact in the Container Transaction table.

Before You Begin

- Verify that the order line types and order activity rules have been set up. See *Setting Up Order Line Types (P40205)* and *Setting Up Order Activity Rules (P40204)* in the *Sales Order Management Guide*.
- Verify that item cross-references have been set up for full and empty containers. See *Setting Up Container Item Cross-References*.
- Verify that the Container Deposit/Rental and Invoice Cycle preferences have been set up. See *Setting Up Container Preferences (P40300)*.

Generating the Container Management Extraction Server Report

When you set the appropriate processing option for the Container Management Extraction Server, the program produces a report showing each of the records added to the Container Transaction table.

41189	JD Edwards World										Page - 2	
	Container Management Extraction Server										Date - 14.05.17	
The following records were added/updated in the Container Transaction File:												
Cust. No	Item No.	Branch/Plt	Co.	Order #	Line #	Ln Do Ty Ty	Key Co	X-Ref	It	Trans Date	Quantity	Scheduled UM Invoice Dt
500	515653	DEPOT1	249	10526	1,000	CT SO	249	515696	14.05.17	1	EA	31.05.17

What You Should Know About

Tracking container invoices When the Container Management Extraction Server reads a record that already exists in the Container Transaction table, it checks the status codes of the record in the Sales Order Detail table to determine if you have processed the record through the Container Billing program. The Container Management Extraction Server updates the record only if you have not already processed it through Container Billing.

Data Selection

You must set the data selection to include user defined line types for both full and empty containers.

Processing Options

See [Container Management Extraction Server \(P41189\)](#).

Processing Deposits, Rental Fees, and Refunds

You run the Container Billing batch program to create sales order lines for rental fees or deposits on containers that your company has delivered to customers and to create credits for refunds on containers that your customers have returned.

The Container Billing program creates sales order lines based on the scheduled invoice date calculated by the Container Management Extraction Server. If the scheduled invoice date is less than or equal to today's date, the Container Billing program will create sales order lines. You then process these sales order lines through the normal flow of invoicing and customer sales update.

Complete the following tasks:

- Create deposit, rental fee, and refund sales order lines
- Process deposit, rental fee, and refund sales order lines

Depending on how you set up the customer's preferences, this program performs either transaction billing or summary billing.

With the transaction method, the program creates a deposit, rental fee, or refund detail line on the sales order for each container transaction recorded for the customer. If the customer has received containers in addition to those covered by the present deposit or rental fee, the system generates a new sales order detail line for the additional deposit or rental fee required. If the customer has returned containers, the system generates a credit order.

With the summary method, the program summarizes all transactions for a single combination of branch/plant, customer, and item that occurred over a specified period. The program creates a single sales order detail line to record this summary. During invoicing, the system issues an invoice or credit memo based on this summary of transactions.

When the transaction or summary quantity is greater than zero, the system records it as a deposit charge. Each time you invoice your customer for a new deposit charge, the system creates a new deposit layer record in the Container Deposit (F4118) table.

When the transaction or summary quantity is less than zero, the system records it as a deposit refund. Each time you issue a credit order for a refund, the system depletes the deposit layers based on the First In/First Out (FIFO) accounting method. The system depletes the oldest deposit layer first. The unit price of the refund equals the deposit rate from the layer currently being depleted.

For example, if the deposit rate for the first deposit layer is \$20.00, the deposit rate for the second deposit layer is \$30.00, and you have not fully depleted the first deposit layer, the refund rate on returned containers is \$20.00. When you have depleted the first deposit layer, the refund rate is \$30.00. If there is an insufficient quantity in the deposit layers to satisfy the entire refund quantity, the system prices the remaining refund quantity using the standard pricing methods.

Before You Begin

- Verify that the Container Deposit/Rental and Invoice Cycle preferences have been set up. See *Setting Up Container Preferences (P40300)*.
- Verify that the processing options for the Container Billing program have been set up to use either the base or ECS preferences, depending on which ones you have created for your company
- Verify that a sales order line type for container deposits and rentals has been set up. See *Setting Up Order Line Types (P40205)* in the *Sales Order Management Guide*.
- Verify that a separate document type for container deposits and rentals has been set up. See *Setting Up User Defined Codes (P00051)* in *Technical Foundations*.

Creating Deposit, Rental Fee, and Refund Sales Order Lines

	From Distribution/Logistics System (G4), choose Container Management From Container Management (G4118), choose Container Billing
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------

The Container Billing program reads the Container Transaction table and, for customers who are scheduled to be invoiced, creates sales order detail lines for deposit charges, rental fees, or refunds. This program creates records in the Container Deposit (F4118) table that correspond to each deposit charge, rental fee, and refund. The program also creates records in the Sales Order Tag (F49211) table.

Generating the Container Billing Report

When you set the appropriate processing option, the Container Billing program prints a report of the records it has created and updated.

41180	JD Edwards World		Page - . . . 3					
	Container Management - Deposits/Rentals		Date - . . . 14.05.17					
Item Number . . . E100	100kg Empty Container LPG							
Branch/Plant . . .	DEPOT1	Depot 1						
Customer	Name	Deposits	Refunds	UM	Rate	Amount	Document Number	Ty
500 Gas Station		1		EA	39,0000	39,00	207	CD

Processing Options

See [Container Management - Deposits/Rentals \(P41180\)](#).

Processing Deposit, Rental Fee, and Refund Sales Order Lines

	From Distribution/Logistics System (G4), choose Container Management From Container Management (G4118), choose Container Billing
-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------

After you have created container deposit charge, rental fee, and refund sales order lines, you can print invoices for customers who are due to be billed and update all applicable records. Sales order lines for deposit charges, rental fees, and refunds flow through the normal invoicing process and customer sales updates in the Sales Order Management system.

The customer sales update posts entries to the general ledger and updates the following tables with container transaction information:

- Sales Order Header (F4201)
- Sales Order Detail (F4211)
- Item Location (F41021)
- Account Ledger (F0911)
- Accounts Receivable Ledger (F0311)
- Item Ledger (F4111)

When you process deposit charges, rental fees, or refunds through invoicing, the system will generate either a transaction or summary invoice, depending on whether the Container Billing program created transaction or summary sales order detail lines. The transaction invoice contains separate lines for each container transaction recorded for the customer. The summary invoice summarizes all transactions over a specified period for a single combination of branch/plant, customer, and item.

The following is an example of a transaction invoice:

JD Edwards World				Page Number-		1		
I N V O I C E				Date	-	05/08/17		
				Customer	-	500		
				Brn/Plt	-	DEPOT1		
				Related PO	-			
				Order Nbr	-	196 CD		
				Invoice	-			
Sold To: Gas station		Ship To: Gas station						
8700 Busy Road		8700 Busy Road						
Houston TX 77401		Houston TX 77401						
Tax ID:								
Tax Cert:								
Request Date		Customer P.O.		F.O.B.		Ship :		
04/30/17						Inst :		
Ln/Rq Dt	Description	Item Number	UM Ship/Back/Cance	Price	Extended Price	Tax	Extended Cost	Pct
.100								
04/30/17	100 LT Empty Container	EC100	EA S	25 40.0000	1,000.00			100
					Per EA			
	* Not Eligible for Discount *							
.200								
04/30/17	100 LT Empty Container	EC100	EA S	3- 30.0000	90.00-			100
					Per EA			
	* Not Eligible for Discount *							
.300								
04/30/17	100 LT Empty Container	EC100	EA S	12- 35.0000	420.00-			100
					Per EA			
	* Not Eligible for Discount *							
.400								
04/30/17	100 LT Empty Container	EC100	EA S	4 45.0000	180.00			100
					Per EA			
	* Not Eligible for Discount *							
.500								
04/30/17	200 LT Empty Container	EC200	EA S	40 80.0000	3,200.00			100
					Per EA			
	* Not Eligible for Discount *							
					Sales Tax	Total Order		
Terms Net 30 Days					Net Due Date 06/07/17	Tax Rt		
						3,870.00		

See Also

- *Printing Invoices (P42565)* in the *Sales Order Management Guide* for more information about processing order lines through invoicing
- *Update Customer Sales (P42800)* in the *Sales Order Management Guide* for more information about customer sales updates

Generating Reports

To review the container transaction activity for each customer and the number of containers you have on hand, you can do the following:

- Generate the Customer/Distributor Balance Statement
- Generate the Container Reconciliations Report
- Generate the Container Location Report

Generating the Customer/Distributor Balance Statement

	From Distribution/Logistics System (G4), choose Container Management From Container Management (G4118), choose Customer/Distributor Balance
-----------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------

The Customer/Distributor Balance program reads the Container Deposit and Container Transaction tables and prints a report of the customer's or distributor's deposits and container transactions for a given period. The report includes the deposit balance for the customer or distributor and the deposit and refund amounts by layer. You can use the Customer/Distributor Balance report as a statement of account activity to send to your customer or distributor.

You can run this program in proof or final mode. When you run it in final mode, the program updates the Container Deposit and Container Transaction tables.

The program prints transaction level or summary level invoice statements, depending on how you set up the preferences for the customer. The transaction level invoice statement displays the deposit charge or refund sales order lines for each container transaction recorded for the customer. The summary level invoice statement summarizes all transactions over a specified period for a single combination of branch/plant, customer, and item.

The following is an example of a transaction level invoice statement:

41182	JD Edwards World		Page - 1
	Customer/Distributor Balance		Date - 5/15/16
Statement for Period Ending 05/15/16			
Customer:	Gas station 8700 Busy Road Houston TX 77401	Supplier:	Model Energy & Chemical Company 5600 Fuels Road New Jersey NJ 40228
Item Number	E50	50 kg Empty Container LPG	
Branch/Plant	DEPOT1 Depot 1		
Invoice Date/Desc	Quantity	Deposit Balance Rate	Amount
			Current Period Activity Deposits Refunds
-----	-----	-----	-----
11/21/15	379	1.0000	379.00
11/21/15	200	1.0000	200.00
11/21/15	100	1.0000	100.00
11/21/15	56	1.0000	56.00
11/21/15	50	1.0000	50.00
11/21/15	10	1.0000	10.00
11/22/15	63	1.0000	63.00
11/22/15	39	1.0000	39.00
11/22/15	1	1.0000	1.00
11/22/15	1	1.0000	1.00
12/06/15	350	1.0000	350.00
12/06/15	250	1.0000	250.00
12/11/15	10	1.0000	10.00
Total	1509		1,509.00
			3- 3.00-
Quantity Delivered:			
Quantity Returned:	3-		
Net Delivery>Returns:	3-		

Processing Options

See [Customer/Distributor Statement - Final \(P41182\)](#).

Generating the Container Reconciliations Report

	From Distribution/Logistics System (G4), choose Container Management From Container Management (G4118), choose Container Reconciliations
-----------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------

The Container Reconciliations program analyzes the transactions for each item with a line type for full containers, finds the cross-referenced empty containers for each of the full containers, and calculates the ending balance of containers in each branch. This report includes the following information:

- Quantity delivered and returned for each container
- Quantity on hand by branch for each container
- Total quantity in the company for each container
- Grand total of all containers in the company

You can also set the appropriate processing option to print the totals for the company only.

You can run the Container Reconciliations program in proof or update mode. If you run the program in update mode, it creates records by item and branch/plant in the Container Reconciliation table. It also places a 1 in the reconciliation flag field in the Container Transaction table. The next time you run the Container Reconciliations program, it will not read these transactions.

Before You Begin

- Verify that the correct item cross-references have been set up for full and empty containers. See *Setting Up Container Item Cross-References (P40300)*.

Item	Description/Location	Quantity
41185	JD Edwards World Container Reconciliations	Page - 5 Date - 5/15/16
Last Reconciliation Date . 02/02/16 Reconciliation 'As Of' Date 05/15/16 Branch DEPOT1 Depot 1		
Item Number (Short)	515637	Opening Balance 500
50 kg Empty Container LPG		Quantity Acquired 0
		Quantity Disposed 0
	Total Opening	500
	Opening Qty Delivered	1,670
Cross Reference Item	515670	Quantity Delivered 11
50 kg Full Container LPG		Quantity Returned 45
	Net Del/Retd	34-
	Closing Qty Delivered	1,636
Quantity in Stock:		
F50	ANJF	25
E50	ANJE	464
E50	MAINTENANCE	0
E50	SCRAP	0
	Total On Hand	489
	Total Inventory	2,125
Item	Description/Location	Quantity
Item Number (Short)	515653	Opening Balance 600
100kg Empty Container LPG		Quantity Acquired 0
		Quantity Disposed 0
	Total Opening	600
	Opening Qty Delivered	367
Cross Reference Item	515696	Quantity Delivered 50,000,427
100kg Full Container LPG		Quantity Returned 614
	Net Del/Retd	49,999,813
	Closing Qty Delivered	50,000,180
Quantity in Stock:		
F100	ANJF	10,242
E100	ANJE	414
E100	MAINTENANCE	0
E100	SCRAP	0
	Total On Hand	10,656
	Total Inventory	50,010,836

Data Selection

The line type must equal the line type for full containers only.

Processing Options

See [Container Reconciliations - Update \(P41185\)](#).

Generating the Container Location Report

	From Distribution/Logistics System (G4), choose Container Management From Container Management (G4118), choose Container Location Report
-------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------

The Container Location program reads the Container Deposit (F4118) and Container Transaction (F4118LC) tables and prints a report of the container transactions for a given period. Typically, you run this report at the end of each period.

You can monitor the location of the containers with this program. The report includes the quantity of containers that each customer possesses by container and customer, and displays totals by branch/plant and one grand total.

Before You Begin

- Verify that you have run the Container Reconciliations Report in final mode.

Processing Options

See [Container Location Report \(P41183\)](#).

Reviewing Container Information

You can use the inquiry programs in the Container Management system to review the deposit layers for each customer and analyze container transactions.

Complete the following tasks:

- Review customer container deposits
- Review container transactions

Reviewing Customer Container Deposits

	From Distribution/Logistics System (G4), choose Container Management From Container Management (G4118), choose Container Deposit Inquiry
-------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------

Use the Container Deposit Inquiry program to display the container deposit balances for a customer. You can view the deposit layers and the deposit balance as each transaction was processed.

To review customer container deposits

On Container Deposit Inquiry

4118 Container Deposit Inq

Tools Help

ORACLE JD Edwards World

URL Document Email World Resources Support

Field Sensitive Help
Display Error Message
Display Functions
Toggle Current Balance
Exit Program
More Details
Clear Screen

4118 Container Deposit Inquiry Curr. Code USD

Customer Number 500 Gas Station

Item Number

Branch/Plant

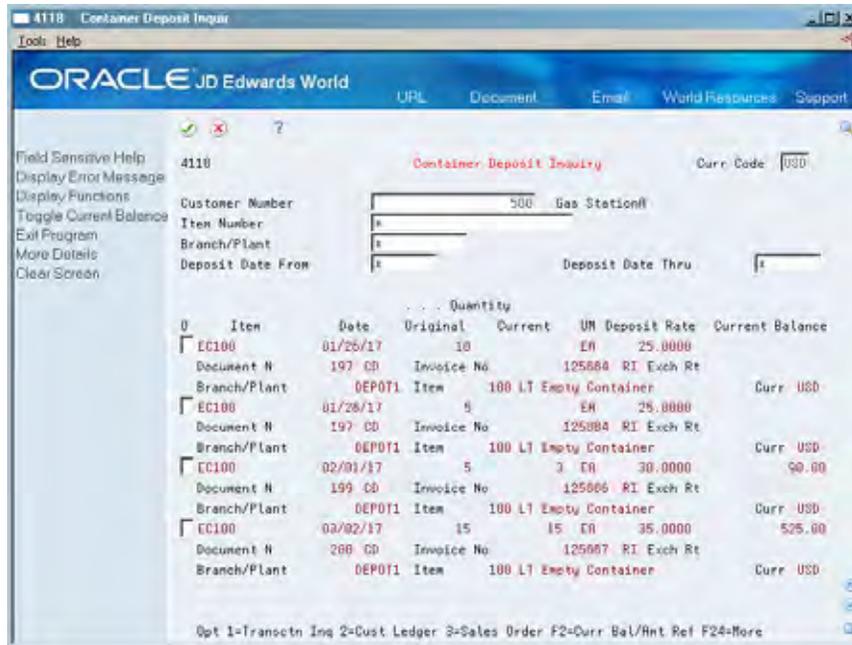
Deposit Date From

Deposit Date Thru

Item	Date	Original	Current	UM	Deposit Rate	Current Balance
EC100	01/26/17	10		EA	25.0000	
EC100	01/28/17	5		EA	25.0000	
EC100	02/01/17	5	3	EA	30.0000	90.00
EC100	03/02/17	15	10	EA	35.0000	525.00
DEPT1	Total	35	10			615.00
Item Total		35	10			615.00
EC200	01/31/17	15	10	EA	50.0000	500.00
EC200	03/31/17	8	8	EA	70.0000	560.00

Opt 1=Transctn Inq 2=Cust Ledger 3=Sales Order F2=Curr Bal/Ant Ref F24=More

1. Complete the following fields:
 - Customer Number
2. To limit the search, complete one or more of the following fields:
 - Item Number
 - Branch/Plant
 - Deposit Date From
 - Deposit Date Thru
3. Review the following fields:
 - Item
 - Original Quantity
 - Current Quantity
 - Unit of Measure
 - Deposit Rate
 - Current Balance
4. Access the detail area.



5. Review the following fields:

- Document Name
- Invoice Number
- Item

Field	Explanation
Customer Number	The address number you want to retrieve. You can use the short format, the long format, or the tax ID (preceded by the indicators listed in the Address Book constants).
Item Number	A number that the system assigns to an item. It can be in short, long, or 3rd item number format.
Deposit Date From	The beginning date for which the transaction or code is applicable.
Deposit Date Thru	The ending date for which the transaction or code is applicable.
Original Quantity	The quantity of units affected by this transaction.
Current	The current quantity of containers owned by the supplying company the customer possesses.
UM	A user defined code (00/UM) that indicates the quantity in which to express an inventory item, for example, CS (case) or BX (box).
Deposit Rate	This is the current rate for the deposits that must be paid by the customer for a container in their possession.

Field	Explanation
Current Balance	The amount the customer needs to pay for the containers in this transaction, determined by multiplying the current quantity by the deposit rate.

What You Should Know About

Viewing different formats You can toggle between refund amount and current balance information on this form.

Reviewing totals for branch/plants If you complete the Branch/Plant field with an asterisk (*), the Container Deposit Inquiry will also display total deposit amounts for each branch/plant.

Reviewing Container Transactions



From Distribution/Logistics System (G4), choose Container Management
From Container Management (G4118), choose Container Transaction Inquiry

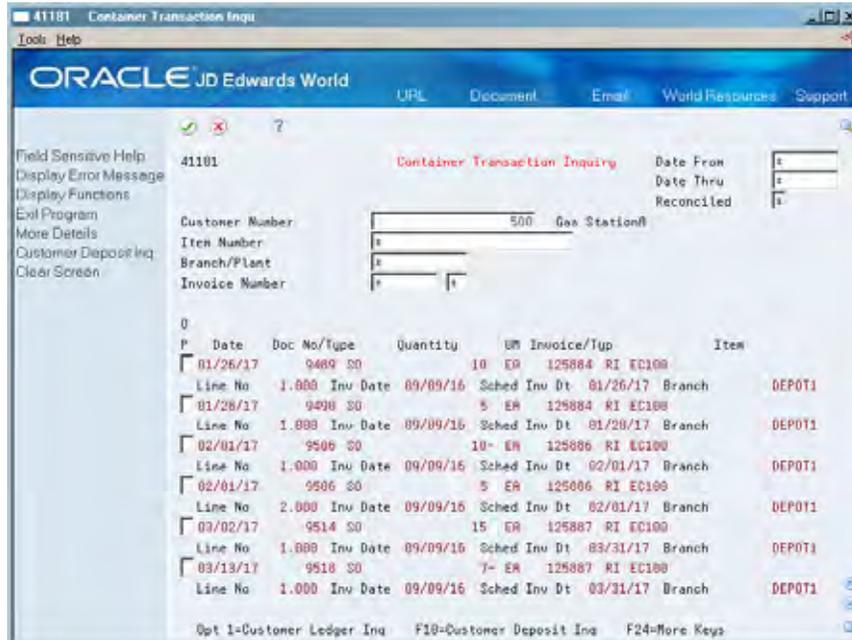
Use the Container Transaction Inquiry program to review the container transactions and container balances for each customer. You can choose to view only the container transactions that the system has not reconciled or all container transactions.

To review container transactions

On Container Transaction Inquiry

P	Date	Doc No/Type	Quantity	UM	Invoice/Typ	Item
	01/26/17	9489 00	10	EA	125884 RI EC100	
	01/26/17	9490 00	5	EA	125004 RI EC100	
	02/01/17	9506 00	10	EA	125886 RI EC100	
	02/01/17	9506 00	5	EA	125886 RI EC100	
	03/02/17	9514 00	15	EA	125887 RI EC100	
	03/13/17	9518 00	7	EA	125887 RI EC100	
TOTAL			18			
	01/25/17	9501 00	10	EA	125885 RI EC200	
	01/25/17	9501 00	5	EA	125885 RI EC200	
	02/01/17	9506 00	10	EA	125886 RI EC200	

1. Complete the following fields:
 - Customer Number
2. To limit the search, complete one or more of the following fields:
 - Date From
 - Date Thru
 - Unreconciled
 - Item Number
 - Branch/Plant
 - Invoice Number
 - Invoice Type
3. Review the following fields:
 - Date
 - Document Number
 - Document Type
 - Quantity
 - Unit of Measure
 - Invoice
 - Type
 - Item
4. Access the detail area.



5. Review the following fields:

- Line Number
- Invoice Date
- Scheduled Invoice Date
- Branch

Field	Explanation
Reconciled	A flag that determines whether the system displays only the container transactions that have not been reconciled, or all container transactions. Valid values are: 1 Only transactions that have not been reconciled blank All transactions

Processing Options

See [Container Transaction Inquiry \(P41181\)](#).

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