



Training Guide

QAD Serialization

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Contents

ABOUT THIS COURSE 1

 Course Description 2

INTRODUCTION TO SERIALIZATION 5

 Course Objectives..... 7

 Course Overview 8

 Packaged Inventory 9

 Packaging Incoming Goods..... 11

 Packaging Outgoing Goods 12

 Stock Movements on the Floor..... 13

 Item Unit Serialization 14

 Packaging and Item Unit Serialization 15

 Terminology 16

 Product Structure vs. Packing Structure 19

 Serial Stages and Package/Item Unit Transactions 20

 Pack Create and Label Printing 21

 Pack Build 22

 Pack Move 24

 Pack Remove 25

 Summary 26

BUSINESS CONSIDERATIONS27

 Overview 30

 Lot/Serial Control..... 31

 Serial ID Range 32

 Packaging Elements 33

Pack Codes	34
Packaging Structures	36
Summary	38
SERIALIZATION SETUP.....	39
Overview	42
Serialization Setup Process Map	43
Serialization Setup Process Flow	44
Setting Up Serialization Control	45
Setting Up Lot/Serial Control Items.....	46
Defining Pack Codes	48
Defining Packaging Structures.....	50
Defining Item Packaging.....	51
Setting Up Serial IDs.....	52
Setting Up Serial ID Ranges.....	53
Review.....	55
Exercise: Serialization Setup.....	56
PACKAGING INVENTORY TRANSACTIONS.....	61
Overview	64
Packaging Transactions Process Flow.....	66
Packaging Transactions	67
Pack Create by Pack Code	68
Pack Create by Pack Structure.....	69
Pack Build.....	71
Pack Commission	76
Pack Split	77
Pack Merge	78
Pack Remove	80
Pack Decommission.....	84
Repackage.....	85
Inventory Transactions	86
Pack Receipt vs. Pack Build	87

Pack Receipt	88
Pack Remove vs. Pack Issue	93
Pack Issue	94
Inventory Scrap	101
Pack Transfer	110
Administration Functions	113
Pack Stage Change	114
Serial Delete/Archive	117
Review	119
Exercise: Packaging Inventory Transactions	121
INBOUND RECEIPTS	125
Overview	128
Inbound Receipt Process Map	129
Inbound Receipt Process Flow	130
Inbound Receipt Process Example	131
Match Levels	132
Packaging Structures	133
Serialization Receiving	134
Direct Receipt	135
ASN Receipt with Serialized Labels	141
ASN Receipt Without Serialized Labels	146
Returning Goods to Supplier	151
Review	152
Exercise: Inbound Receipts	153
DISCRETE PRODUCTION	159
Overview	162
Discrete Production Process Map	163
Serialization Production Process Flow	164
Serialization Production Process Example	165
Work Order Serial Booking	166

Production Process	172
Work Order Release/Print.....	173
WO Component Issue by Pack	175
Pack Create by WO.....	181
Pack Receipt by WO.....	185
WO Receipt Backflush by Pack.....	199
WO Component Return by Pack.....	202
WO Receipt Correction by Pack.....	206
Review.....	212
Exercise: Discrete Production	213
REPETITIVE PRODUCTION	219
Overview	222
Repetitive Production Process Map.....	223
Repetitive Production Process Flow.....	224
Serialization Production Process Example	225
Production Process	226
Repetitive Picklist Calculation.....	228
Rep Picklist Transfer by Pack.....	230
Pack Create by Production Line	234
Pack Receipt by Production Line.....	237
Rep Receipt Correction by Pack.....	251
Backflush Transaction	255
Review.....	258
Exercise: Repetitive Production	259
OUTBOUND SHIPMENTS.....	263
Overview	266
Outbound Shipment Process Map	268
Outbound Shipment Process Flow	269
Outbound Shipment Process Example	270
Sales Order Serial Booking	271
Shipping Process	274
Picklist/Pre-Shipper–Automatic	275
Pre-Shipper/Shipper Picking.....	277

- Pre-Shipper/Shipper Pack Build 283
- Truck Load..... 289
- Shipping Data Maintenance..... 292
- Move Pack between (Pre-)Shippers..... 293
- Pre-Shipper/Shipper Confirm 298
- Shipper Unconfirm..... 304

- Shipping Process - Return 305

- Review..... 314

- Exercise: Outbound Shipments 316

- CYCLE COUNT321**

- Overview 324
- Cycle Count Process Map 325
- Cycle Count Process Flow..... 326
- Cycle Count Batch Active Duration..... 327
- Cycle Count Worksheet Print..... 328
- Cycle Count Entry by Location..... 329
- Cycle Count Results Browse Collection 332
- Cycle Recount Entry by Location 337
- Review..... 339
- Exercise: Cycle Count..... 340

- PHYSICAL INVENTORY343**

- Overview 346
- Physical Inventory Process Map 347
- Physical Inventory Process Flow..... 348
- Tag Delete/Archive 349
- Inventory Balance Freeze 350
- Pack Tag Create..... 352
- Bulk Tag Create..... 355

Pack Tag Print	356
Pack Tag Count Entry	361
Pack Tag Recount Entry	369
Uncounted Pack Tag Report/Update	370
Inventory Balance Update by Pack	373
Review	377
Exercise: Physical Inventory	378

Change Summary

The following table summarizes significant differences between this document and the previous version.

Date/Version	Description	Reference
May 2016/2016 EE	Initial version	--

About This Course

Course Description

This class is designed to teach the basic features and functions of QAD Serialization and the business requirements to consider when setting up and using Serialization. The topics include key concepts, setup, process flows, and transactions.

Topics will be presented and then practiced with hands-on exercises.

Course Objectives

By the end of this class, students will:

- Identify key business considerations to analyze before setting up and using Serialization
- Set up Serialization for the most effective use
- Use and manage Serialization effectively

Audience

This class is intended for material handlers, controllers, and other key users, as well as QAD R&D and Services and Support personnel.

Prerequisites

In order to obtain maximum benefit from this class, an understanding of manufacturing, purchasing, sales, and inventory control is required.

Course Credit and Scheduling

This course provides 24 credit hours. It is designed to be taught in 3 days.

Virtual Environment Information

The hands-on exercises in this book should be used with the latest Enterprise Edition learning environment.

Additional Resources

If you encounter questions on QAD software that are not addressed in this book, several resources are available. The QAD corporate Web site provides product and company overviews. From the main site, you can access the QAD Learning or Support site and the QAD Document Library.

Access to some portions of these sites depends on having a registered account.

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

QAD Learning Center

To view available training courses, locations, and materials, use the QAD Learning Center. Choose Education under the Services tab to access this resource. In the Learning Center, you can reserve a learning environment if you want to perform self-study and follow a training guide on your own.

QAD Document Library

To access release notes, user guides, training guides, and installation and conversion guides by product and release, visit the QAD Document Library. Choose Document Library under the Support tab. In the QAD Document Library, you can view HTML pages online, print specific pages, or download a PDF of an entire book.

To find a resource, you can use the navigation tree on the left or use a powerful cross-document search, which finds all documents with your search terms and lets you refine the search by book type, product suite or module, and date published.

QAD Support

Support also offers an array of tools depending on your company's maintenance agreement with QAD. These include the Knowledgebase and QAD Forums, where you can post questions and search for topics of interest. To access these, choose Visit Online Support Center under the Support tab.

CHAPTER 1

Introduction to Serialization

Introduction to Serialization

QAD Enterprise Applications Enterprise Editions



Course Objectives

Introduction to Serialization

Course Objectives

In this course, you will learn how to:

- Identify key business considerations to analyze before setting up and using Serialization
- Set up Serialization for the most effective use in your organization
- Use and manage Serialization effectively

Course Overview

Introduction to Serialization

Course Overview

- **Introduction to Serialization**
- Business Considerations
- Serialization Setup
- Inventory Transactions
- Inbound Receipts
- Discrete Production
- Repetitive Production
- Outbound Shipments
- Cycle Count
- Physical Inventory

Packaged Inventory

Introduction to Serialization

Packaged Inventory

- Identify packs by a unique ID (License Plate)









6

What do we mean by packaged inventory tracking and tracing?

Packaged inventory tracking and tracing involves managing material handling activities by identifying inventory with a unique License Plate Number (LPN) that containerizes inventory (often referred to as palletization or containerization). Inventory can be packaged in a single-level or multi-level structure. Each packaging unit may require its own LPN, which in turn is aggregated on a higher-level pack LPN. In this way, material handlers can manage inventory by LPN instead of by specific inventory quantities contained in each of these packs. When pallets are broken and cases are moved separately, or goods are built or combined into the same pack, you can still access a full genealogy of serial tracking and tracing at all packaging levels down to serialized item units.

So material handlers can be more effective by handling inventory as a group contained in a single packaging unit like a pallet, or bundled packaging units, like cases in pallets, rather than by individual item or by lot/serial number.

To use packaged inventory tracking and tracing, you must have the technology to predefine packaging conditions and to assign serial numbers, and to print labels according to the predefined formats for these packaging units. This may differ, depending on the type of contained item, the destination, or the type of packaging.

So far, QAD has supported container functionality, but only supports the handling of containers as part of the picking, packing, and shipping of sales orders or distribution orders. This solution is limited in capabilities and usability, and is not scalable when you manage high volumes of packaging units, either at a single level or at multiple levels.

Packaging Incoming Goods



Packaging incoming goods involves receiving purchased materials or manufactured goods and license plates to move goods in the plant:

- At a single level
- At multiple levels
- In pallets or cases
- In reels, rolls, or drums

Packaging Outgoing Goods



Packaging outgoing goods involves shipping manufactured finished goods and license plates to customers:

- At a single level
- At multiple levels
- In pallets or cases
- In reels, rolls, or drums

Stock Movements on the Floor



Material handling activities in the warehouse and on the shop floor involves the:

- Cycle counting and physical inventory by LPN
- Unloading and material matching of received goods with ASN data during inbound receipts
- Integrated packaging with receiving functions during production or inbound receipts
- Transactions for specific picking, packing, and truck-loading activities before goods are issued or dispatched to customers
- Management of specific pack-handling transactions such as building packs, removing inventory from packaging units, or moving inventory by LPN

Item Unit Serialization

Introduction to Serialization

Item Unit Serialization

- Identify each produced unit with a unique ID









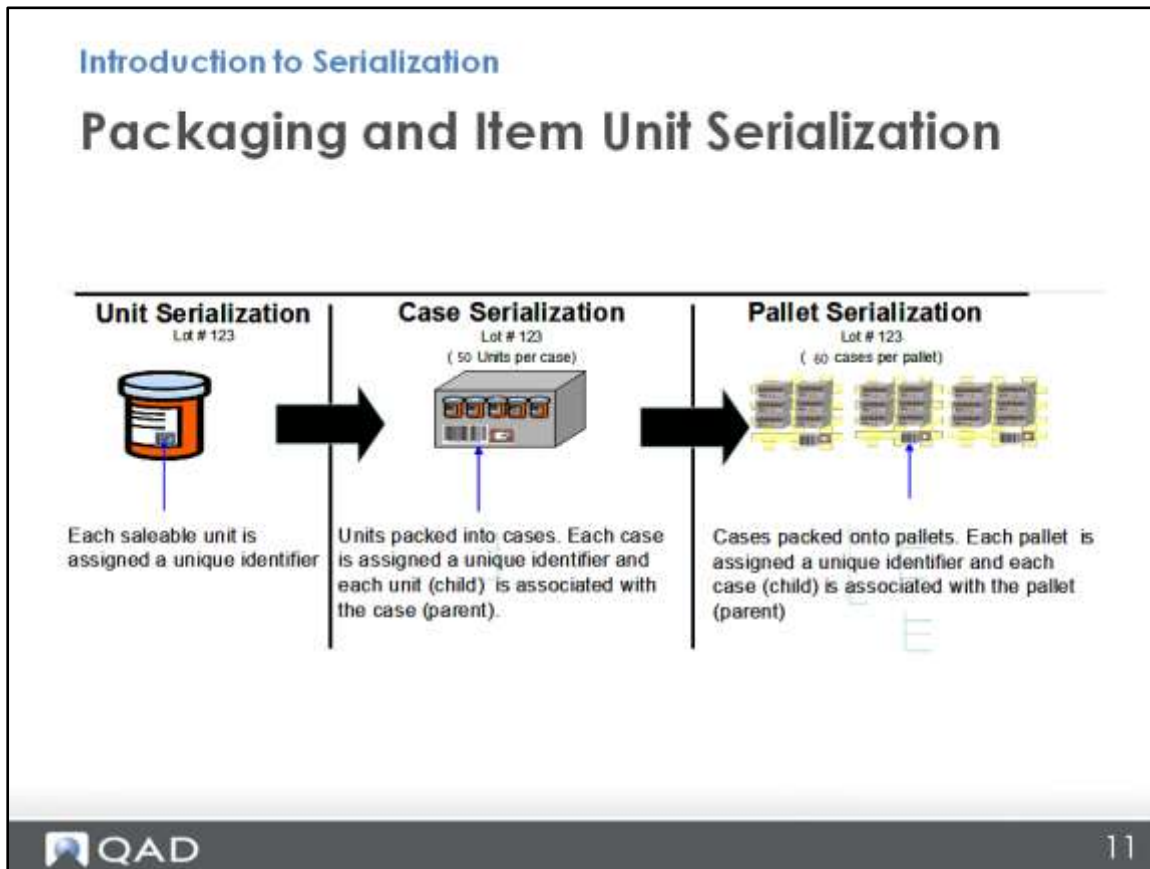
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There are many unique IDs that you deal with every day: your security ID card, driver's license ID, mobile serial ID, your car license plate ID, or VIN number, and so on. Other terminologies used in industries include the Auto ID in the automotive industry (Odette Vocabulary) and the Unique Device Identifier (UDI) for medical devices.

In this context, item unit serialization means tracking and tracing each purchased, produced, or sellable unit individually, independent from but in conjunction with, supplier lot or production batch/lot numbers. It allows companies to manage high-volume serialization tracking and tracing, while managing and controlling logistics requirements using lot/batch numbers.

Before Serialization, QAD allowed you to either control, track, and trace lot or serial numbers, but not both lot and serial numbers. The solution for handling serial numbers was limited to low volumes of data that directly impacted inventory transactions. Very limited support was available for managing serialized item units within packaging units.

Packaging and Item Unit Serialization



When pallets are uniquely identified with labels and the data is stored using a system, we talk about pallet serialization. Similarly, the term case serialization is used for multi-level packaging units. In several industries, however, the specific items produced are serialized as well.

Previously, for low-volume production, you could use the lot/serial functionality. However, QAD EE now includes serialization capabilities that allow you to have items both lot controlled, as well as serial controlled. These enhanced serialization capabilities provide support for high-volume unit production, while still providing full tracking and tracing capabilities. Serialization data is segregated from conventional inventory transaction tracking and tracing.

Terminology

Introduction to Serialization

Terminology

- Serialization
- License plate inventory management
- Packaging
- Pack code
- BOP structure
- Unit pack
- Master pack
- Serial stages
- ePedigree




12

Serialization is the act of assigning a unique identifier to an item or a packaging unit. The assignment of serial IDs ensures that each type of packaged inventory is identified uniquely, including items, cases, and pallets.

Item serialization is the ability to track and trace each purchased, produced, or salable unit independently yet with supplier or production lot numbers. QAD item serialization capabilities let you manage high-volume mass serialization. You can track and trace items while concurrently managing and controlling logistics requirements using lot/batch numbers.

License plate inventory management is a material-handling concept that lets you handle activities by identifying inventory using a license plate number (LPN) and by containerizing inventory. The objective is to make inventory movements more efficient by moving inventory as a group, rather than by individual item or by lot/serial number. The functions let you package inventory in either a single-level or a multiple-level packaging structure. Each packaging unit may require its own LPN and can be aggregated on a higher-level pack.

Packaging is a coordinated system of preparing goods for transport, warehousing, logistics, sale, and end use. Goods are manufactured and packaged and, typically, have multiple levels of packaging to support all logistics activities that occur from manufacturing to consumption of manufactured items. Depending on the type of the business, companies may require that more or fewer levels be tracked and traced in logistics operations. Labels are printed and applied to packs with serial numbers to uniquely identify each shipping

unit. Many products move through the supply chain in a packaged format, making handling, storage, and other processing more efficient. This method helps reduce handling costs and damage by reducing individual handling. When companies use multiple-level packing, each level can be assigned its own LPN. In this way, when the higher-level packing unit is reconstructed, the lower-level packing units can be easily managed through their own LPNs.

A pack code defines the type of packaging used and helps identify the way in which items and inventory are stored to facilitate warehouse and logistics activities.

The BOP structure defines how many packing units are required for each level. You can define different packing types such as pallet, shipper, or carton. You can also assign the UM and define the number of lower-level packs that the upper-level packaging type contains.

A unit pack is the lowest-level pack. The unit pack is the pack whose content is an inventory item.

A master pack is the highest-level pack. When multiple packaging levels are in use, the master pack packaging type contains another pack (not an inventory item) that gets assembled in the pack. For example, an inventory item is stored in a box that is put into a case, which is then put on a pallet for storage and shipment. In this example, the box is the unit pack and the pallet is the master pack.

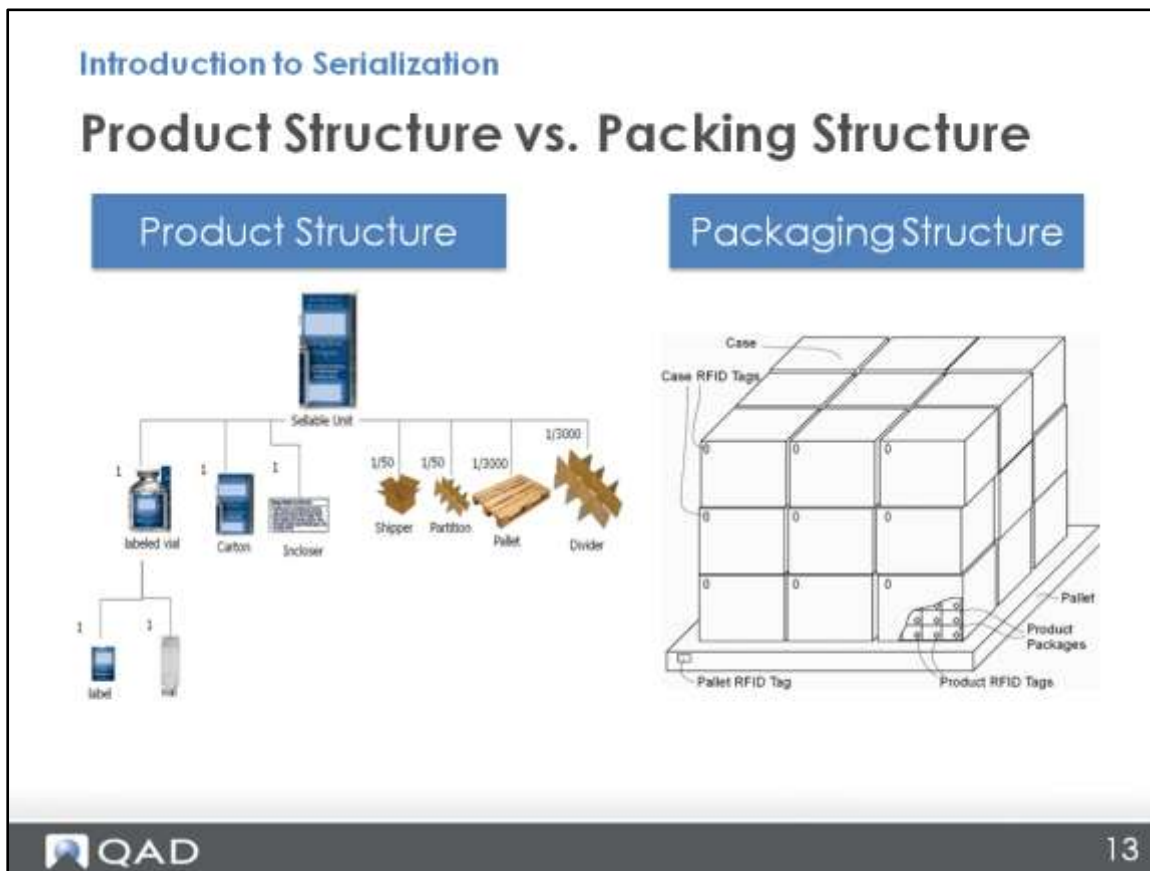
Serial stages track the status of a serial number before, during, and after inventory processing. Serial stage codes include system- and user-defined codes for active serial numbers related to stock in inventory. The system stores serial ID ranges and other serial data independently from lot detail data and inventory transaction history.

- **Active:** Serial IDs become active after inventory has been received in the system.
- **Aggregated:** The Aggregated stage indicates that a serial number belongs to a packaging structure that has a higher-level hierarchy. It drives validations for active packages (inventory still in the system). Business logic determines whether aggregated serial IDs are active or decommissioned.
- **Booked:** Serial IDs are booked for use. Work Order Serial Booking and SO/RMA Serial Booking use this stage.
- **Consumed:** The Consumed stage is set through ISS-SO or ISS-UNP transactions. Additionally, it is set when WO components are issued or when components are backflushed using the backflush transaction.
- **Decommissioned:** All items or lower-level packs are removed from the package; however, you can reload them.
- **New:** New serial ID. Pack Create by WO, Pack Create by Production Line, Pack Create by PO/Shipper, Pack Create by Pack Structure, and Pack Create by Pack Code use this stage.
- **Pending:** The Pending stage is used by Pack Receipt by WO, Pack Receipt Unplanned, and Pack Receipt by Production Line. The stage identifies that a packaging structure has been created and that a receipt is being held until staff finish building packs and are ready to receive.
- **Picked:** The serial IDs are in use for picking. Pre-Shipper/Shipper Picking and Pre-Shipper/Shipper Pack Build use this stage.
- **Receiving:** The serial IDs are in use for receiving. Pending PO Shipper Unload uses this stage.

- **Unused:** Unused stages are for numbers that were initially reserved or booked for an order, but not commissioned. They can be reused.

An ePedigree is an electronic record, containing information about each transaction, resulting in the change of ownership of a specific item or packaging unit from the manufacturer through the supply chain to the final consumer. For example, a pharmaceutical manufacturer with a plant in California is required by the California ePedigree act to have partially implemented ePedigree, beginning in 2015. The ability to maintain and view packaging data at the smallest salable packaging unit provides tracking and tracing abilities for the product across the supply chain. Also important is the ability to track how packages are transformed as they move through the supply chain. To be more specific, this capability tracks the packaging of the lowest-level items into packs, building packs, repackaging, pack returns, and so on. These two distinct concepts—item serialization and ePedigree—require two distinct, different solutions in industry: you can generate a pedigree at the lot level without serialization, and you can serialize a product without generating a serialized pedigree.

Product Structure vs. Packing Structure



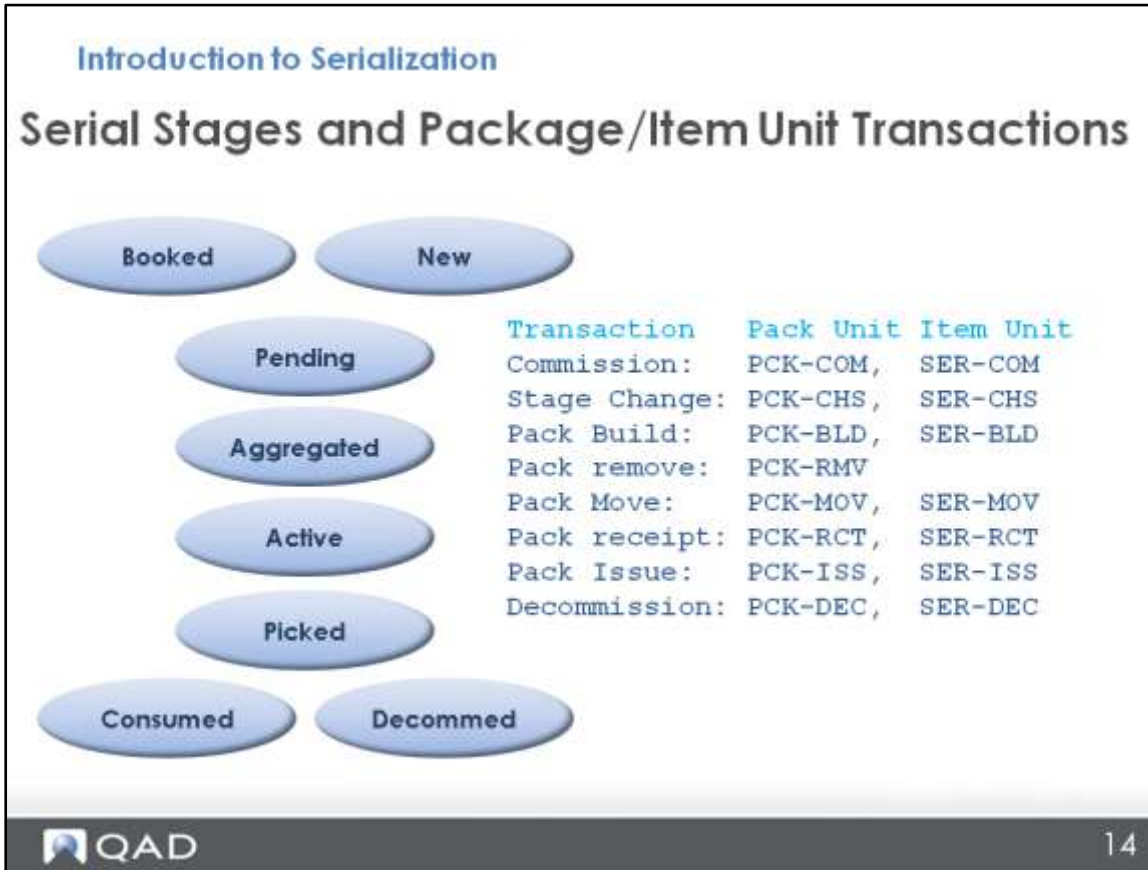
Product Structure (BOM): Which materials are required to produce a finished product?

- Material requirements driven
- Raw materials, components, and packaging materials

Packaging Structure (BOP): How goods are packaged and the dimensions of each packaging level

- Logistics driven
- For example: 1 pallet has 50 cases (shippers); and 1 case has 60 sellable units

Serial Stages and Package/Item Unit Transactions



Before we start to explain the basic inventory and packaging transactions, new concepts have been introduced with the Serialization functionality:

- Serial pack and item unit data is stored in separated schemas to track and trace inventory.

So there is a direct link between lot detail information (ld_det) and serial pack hierarchy (ser_mstr) as well as between transaction history (tr_hist) and serial history data (serh_hist). This slide summarizes the different serial transaction types that have been introduced, complemented by the inventory transaction types.

- Serial data can be tracked and traced, even before goods are received or after goods have been issued or shipped.

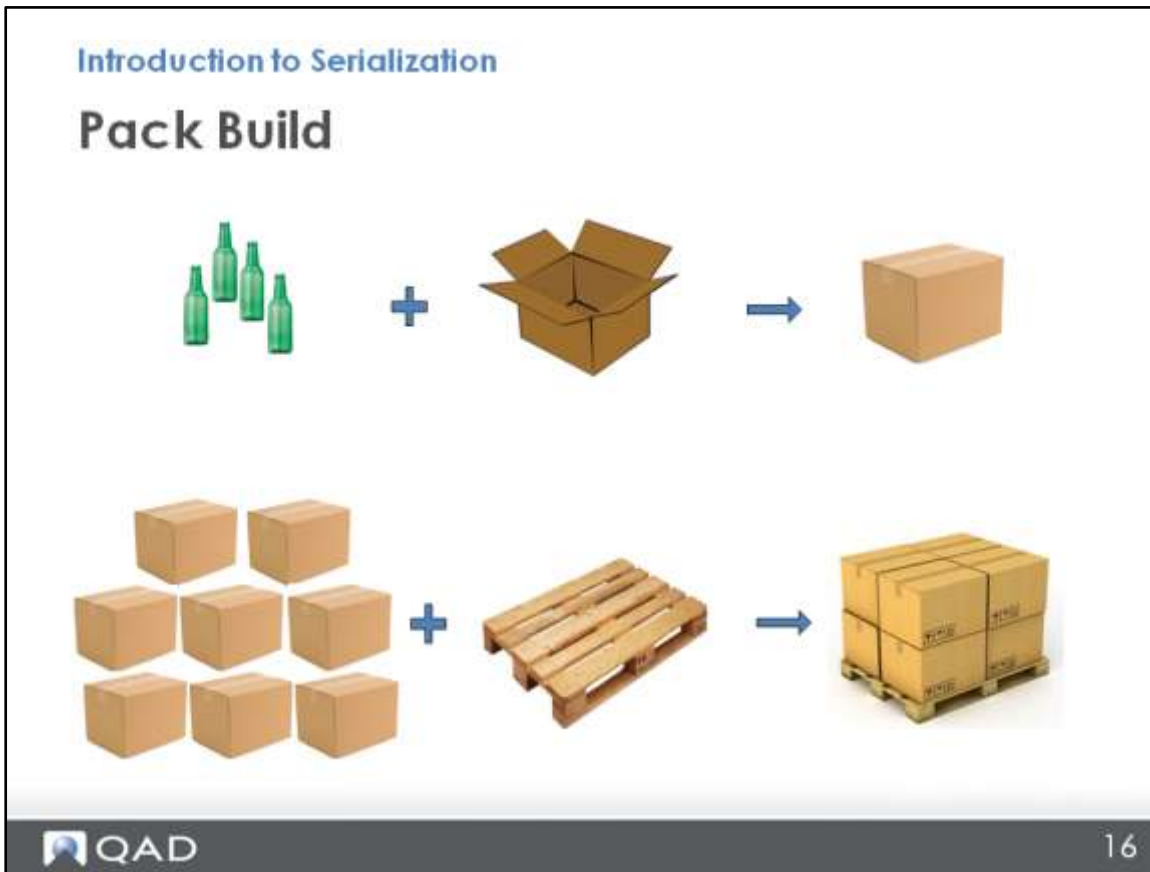
QAD Serialization introduces the concept of stages, which will become clearer when we explain the different basic transactions.

Pack Create and Label Printing



A first basic type of transaction: Assume that labels for a specific pack are printed before goods are received. In this case, you can use Pack Create by Pack Code or Pack Create by BOP to print the labels.

Pack Build



Now that we have labels, we are now going to package existing inventory in cases. Use a new transaction, Pack Build, to complete this task.

In this case, we are building packs with specific item quantities (referred to as “unit packs”). In addition, we are building these cases on a pallet (lower-level packs on a “master pack”).

Refer to the following reports or browses:

- Serial Master Browse
- Serial History Browse
- Serialized Inventory Report

Note: Use these reports and browses to gain a greater understanding of the transactions introduced in this section.

If a serial history transaction has been created of type PCK-BLD, the serial stage is changed to Active, which means that the serial ID becomes active with specific inventory related to it. You can also see that the loose inventory is decreased by the same quantity as Quantities in Pack is increased by.

When building the boxes on a pallet, notice that similar transactions are created but now the contents are unit boxes. An additional serial history transaction has been created of the type PCK-CHS and the serial stage is changed to Aggregated. This indicates the change of stages for the boxes that are now built on the pallet or aggregated on the pallet. From now on, it is assumed that these packs are fixed on the pallet until the box is removed again from the pallet.

Pack Move

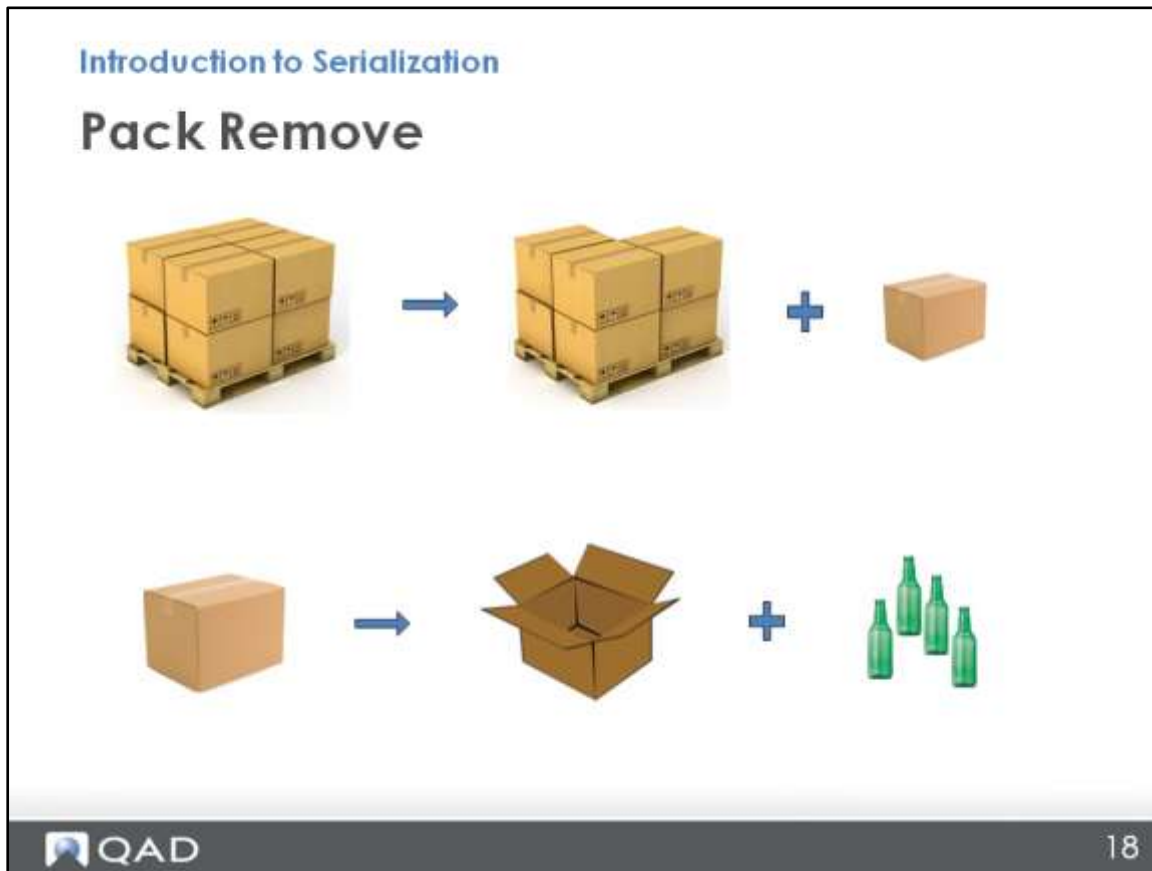


To move packs from one location to another, scan the identifier of the master pack and indicate the destination location. Use Pack Transfer for this transaction.

A serial history transaction is created of type PCK-MOV and the stage is changed to Active. Also, if you check the related inventory transaction, you can see this transaction is linked with the RCT-TR transaction (Right-click the transaction number to see the details).

Note: It is not necessary to have the PCK-MOV transaction linked to ISS-TR because the original location is clearly traceable. In contrast to tr_hist (transaction history) transactions, serh_hist transactions do not require two steps because there is no link to GL transactions, for example.

Pack Remove



Similarly, as you were able to build inventory on packs, there is a Pack Remove transaction for the reverse action to:

- Remove cases from pallets
- Remove specific content from a box

You can see a PCK-RMV transaction and a PCK-CHS transaction are created as the stage of the box is changed from Aggregated back to Active.

Summary

Introduction to Serialization

Summary

- Course Objective
- Course Overview
- Packaged Inventory
- Packaging Incoming Goods
- Packaging Outgoing Goods
- Stock Movements at the Floor
- Item Unit Serialization
- Packaging & Item Unit Serialization
- Terminology
- Product Structure vs. Packing Structure
- Serial Stages & Package/Item Unit Transactions
- Pack Create / Label Print
- Pack Build
- Pack Move
- Pack Remove

CHAPTER 2

Business Considerations

Business Considerations

Serialization



Course Objectives

Business Considerations

Course Objectives

In this section, you will learn how to:

- **Identify key business considerations to analyze before setting up and using Serialization**
- Set up Serialization for the most effective use in your organization
- Use and manage Serialization effectively

Overview

Business Considerations

Overview

- Lot/Serial Control
- Serial ID Range
- Packaging Elements
- Pack Codes
- Packaging Structures

Lot/Serial Control

Business Considerations

Lot/Serial Control

- Serial Control
- Lot Control
- Both




4

Definition

Serial Control: Define whether an item is serialized.

Lot Control: The value of Lot Control for the item determines whether a lot or serial number is required.

You can use serial control, lot control, or both.

Why Consider Lot/Serial Control?

For some industries, the items need complete lot/serial number traceability.

Setup Implications

Set up lot/serial control in Item Master Maintenance (1.4.1), Item Inventory Data Maintenance (1.4.5), or Item-site Inventory Data Maintenance (1.4.16).

Serial ID Range

Business Considerations

Serial ID Range

- Define serial ID range for items and packs
- Determine the source of serial ID:
 - Import from external sources
 - Generate from system NRM



5

Definition

You can define the serial ID range for items and packs by system in Number Range Maintenance. The serial ID can be generated from the system or imported from external sources.

Why Consider Serial ID Ranges?

The company needs to determine the serial ID formats and ranges for items and packs. The company also needs to determine what the source of the serial IDs is: imported from external sources or generated from the system NRM.

Setup Implications


Set up serial ID ranges in Number Range Maintenance (36.2.21.1). You can use Serial Range Extension (13.14.21) to set up an external import source for serial IDs.

Packaging Elements


Business Considerations

Packaging Elements

- What are the packaging elements?
 - Pallets
 - Boxes
 - Separators






6

Definition

Packaging elements are the types of packaging. They can be pallets, boxes, separators, and so on. You can define the pack code for all packaging elements.

Why Consider Packaging Elements?

Packaging codes are the fundamental records behind serialization. What packaging elements are you using?

It is important to decide what you define as a pack to avoid redundant declarations. For example, if you produce an end item of bottled pills and you want to serialize the bottle, you must set up lot/serial control for the end item (bottle and pills) but you do not need to create a pack code for the bottle item separately.

Setup Implications

Use Pack Code Maintenance (13.14.1) to define packaging elements.

Pack Codes

Business Considerations

Pack Codes

- Does the packaging element require specific rules for the source or destination?
 - Single Item / Single Lot
 - Labels
 - Serial Control

The diagram shows a flow from 'Source' (a bottle) to a 'pack' (a pallet with boxes) and then to 'Destination' (a gear). Arrows indicate the direction of flow: from Source to pack, and from pack to Destination.

Definition

The packaging hierarchy determines the way in which goods are packaged and stored after inbound and production receipts. The hierarchy can be a single-level or a multiple-level packaging structure.

Why Consider Pack Codes?

Can you pack multiple products in a pack? Can you pack multiple lots in a pack?

Is the packaging material consumed during production on the item BOM or the packaging BOM? Will your package element consume multiple items when it is used?

Is your pack an inventory item?

Setup Implications

In Pack Code Maintenance, you can choose to pack only single item or multiple items in a pack. Also, you can choose to pack only single-lot items or multiple-lot items in a pack.

If multiple items are consumed when the pack is used, for example, the bottled pills, the end item needs a partition. You can create a box that contains the end item and partition and specify the BOM code in the Item/BOM field in Pack Code Maintenance.

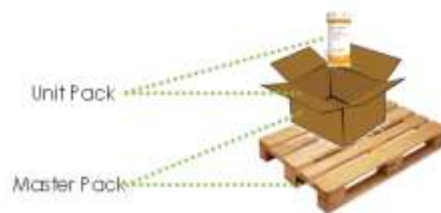
In Pack Code Maintenance, you can specify whether the pack is an inventory item.

Packaging Structures

Business Considerations

Packaging Structures

- Create the packaging structure per your packaging design
- Will the packing structure be for generic or specific use?



Definition

Packaging Structure Maintenance provides you with the ability to implement the designed bill of packaging. The bill of packaging defines the way in which items are packaged, either in a single-level or a multi-level packaging structure.

The lowest-level pack is referred to be the “unit pack” or the pack in which the content is an (inventory) item. In the example, the bottle of pills, which is packed in the box, represents the unit pack. For example, there are four bottles per box and serialization is required. Serialized IDs are required for the packed box.

The highest-level pack is referred to be the “master pack”. In case of multiple packaging levels, this packaging type has as content another pack (not an inventory item), which gets assembled on this pack. For example, two boxes are defined per pallet and serialization is required for the box and pallet combination.

Why Consider Packaging Structures?

How do you define your packaging structure?

Will the packing structure be for generic or specific use?

Setup Implications

Use Packaging Structure Maintenance (13.14.4) to maintain the packing structure. If you leave the content field of the unit pack level blank, it means that any item can be put into this packaging structure.

Summary

Business Considerations

Summary

- Lot/Serial Control
- Serial ID Range
- Packaging Elements
- Pack Codes
- Packaging Structures

CHAPTER 3

Serialization Setup

Serialization Setup

Serialization



Our Passion. Your Advantage.

Serialization Setup

Serialization Setup

Serialization Setup

In this section, you will learn how to:

Identify key business considerations before setting up Serialization in QAD Enterprise Applications

- **Set up Serialization in QAD Enterprise Applications**
- Process Serialization in QAD Enterprise Applications

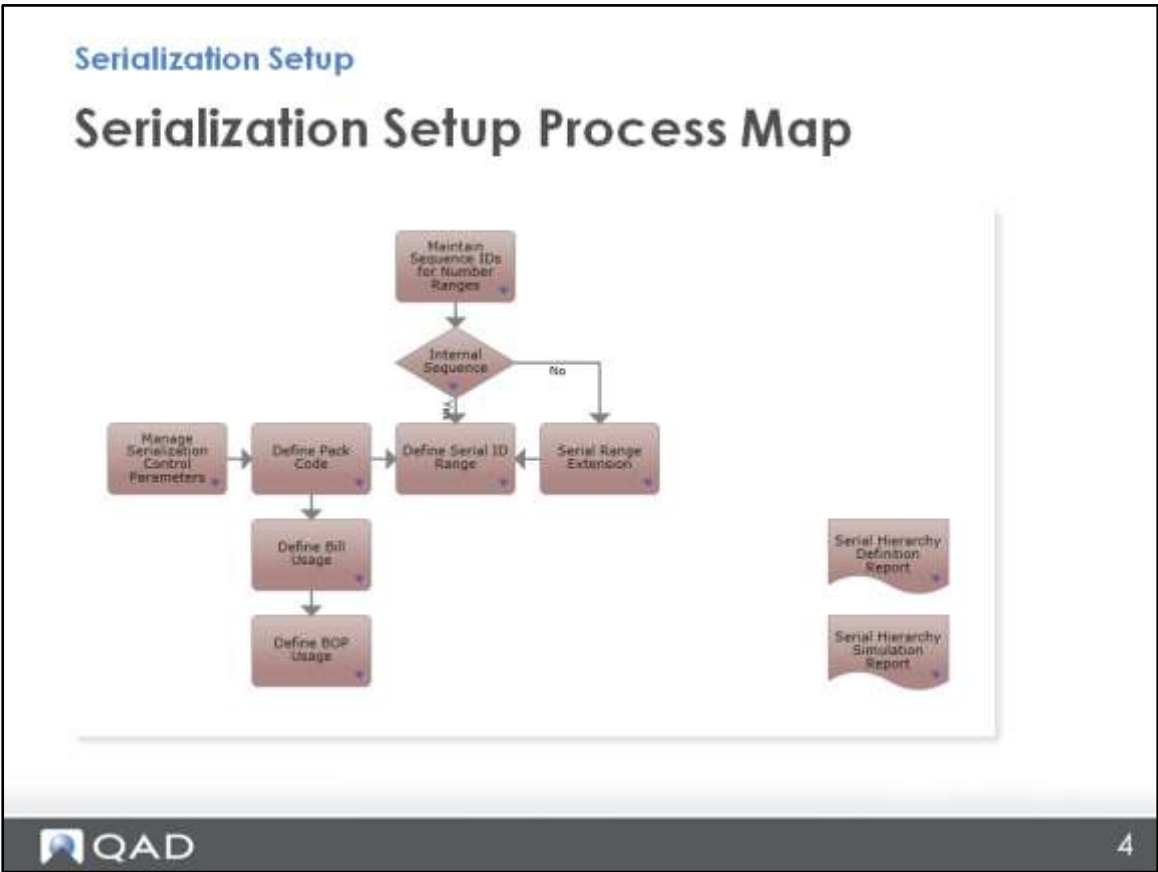
Overview

Serialization Setup

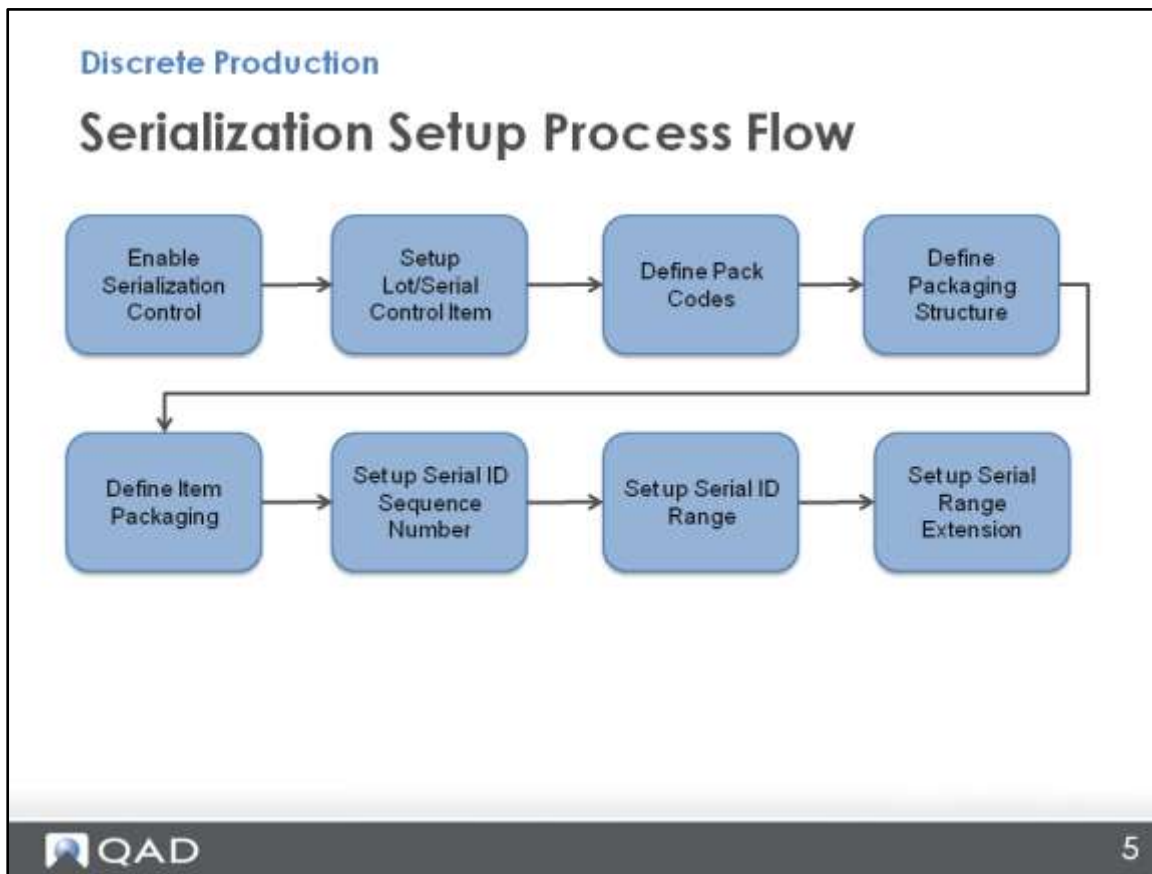
Overview

- Serialization Setup Process Map
- Serialization Setup Process Flow
- Setting Up Serialization Control
- Setting Up Lot/Serial Control Items
- Defining Pack Codes
- Defining Packaging Structures
- Defining Item Packaging
- Setting Up Serial IDs
- Setting Up Serial ID Ranges

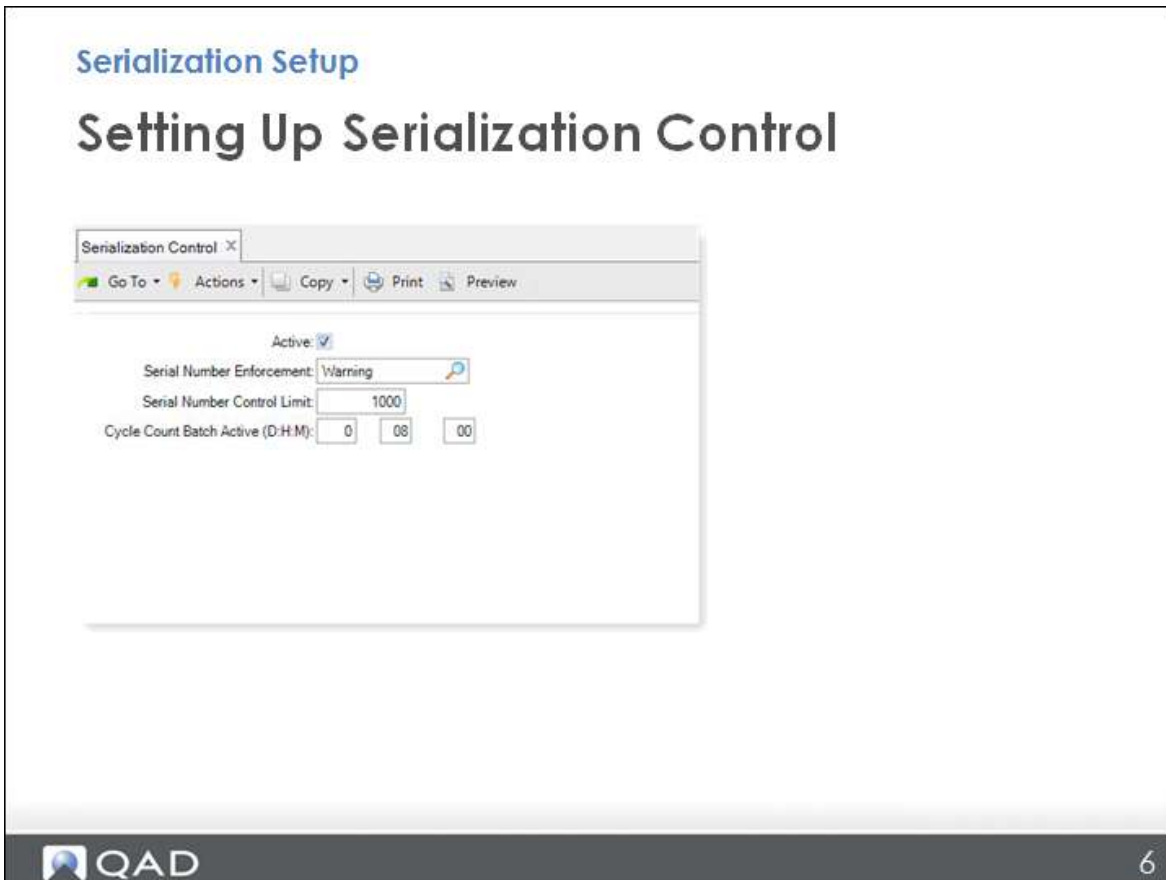
Serialization Setup Process Map



Serialization Setup Process Flow



Setting Up Serialization Control



Use Serialization Control to define control settings for the Serialization functionality. You can activate or deactivate the Serialization functionality.

You can set control options that let you prevent the system from generating too many serial IDs at the same time. You do this by setting up the type of validation that the system applies when the maximum number of IDs is reached. When you create serial IDs with any of the Serialization pack creating functions, if the number of created serial IDs exceeds the serial number control limit, the system can display a warning or an error.

You can set up the time for cycle count batch processing to remain active after the system creates the batch to process.

Setting Up Lot/Serial Control Items

Serialization Setup

Setting Up Lot/Serial Control Items

Item Master Maintenance x

Go To Actions Copy Print Preview Attach

Item Planning Price

Item Item Data Inventory Item Shipping Data

Item

Item Number: 05002 Description: Pills, 50 Tab
Unit of Measure: EA

Item Data

Prod Line: 10 Item Type: FINGOOD Drawing:
Added: 8/21/2007 Status: ACTIVE Revision:
Design Group: PRODMGMT Group: Medical Drawing Loc: Size:
Promo Group: OTC Price Break Category:

Item Inventory Data

Serial Control: Never
Lot Control: L
Site: 10-500
Location: 050
Location Type:
ABC Class: A
Average Interval: 90
Cycle Count Interval: 90
Shell Life: 90
Allocate Single Lot: Key Item:

QAD 7

Serial Control: Define whether this item is serialized.

- M: Mandatory. Each item in the inventory requires a serial ID.
- N: Never. This item is not serial controlled, but the pack containing this item can have a serial ID.

Lot Control: The value of Lot Control for the item determines if a lot or serial number is required.

- Blank: Lot/serial numbers are not required, although they can be recorded, as needed. When Serial Control is set to M(andatory) and Lot control is blank, the system generates item serial IDs. However, it is not mandatory that you enter the lot number.
- L: Lot numbers are required for this item. During issues and receipts, a lot number is required. The lot number applies to the entire transaction quantity entered.

When set to L and Serial Control is set to M(andatory), the item requires both item serial ID and lot number, so that each inventory item has a serial ID and the items can be of the same lot.

When set to L and Serial Control is set to N(ever), the system does not create an item serial ID for the

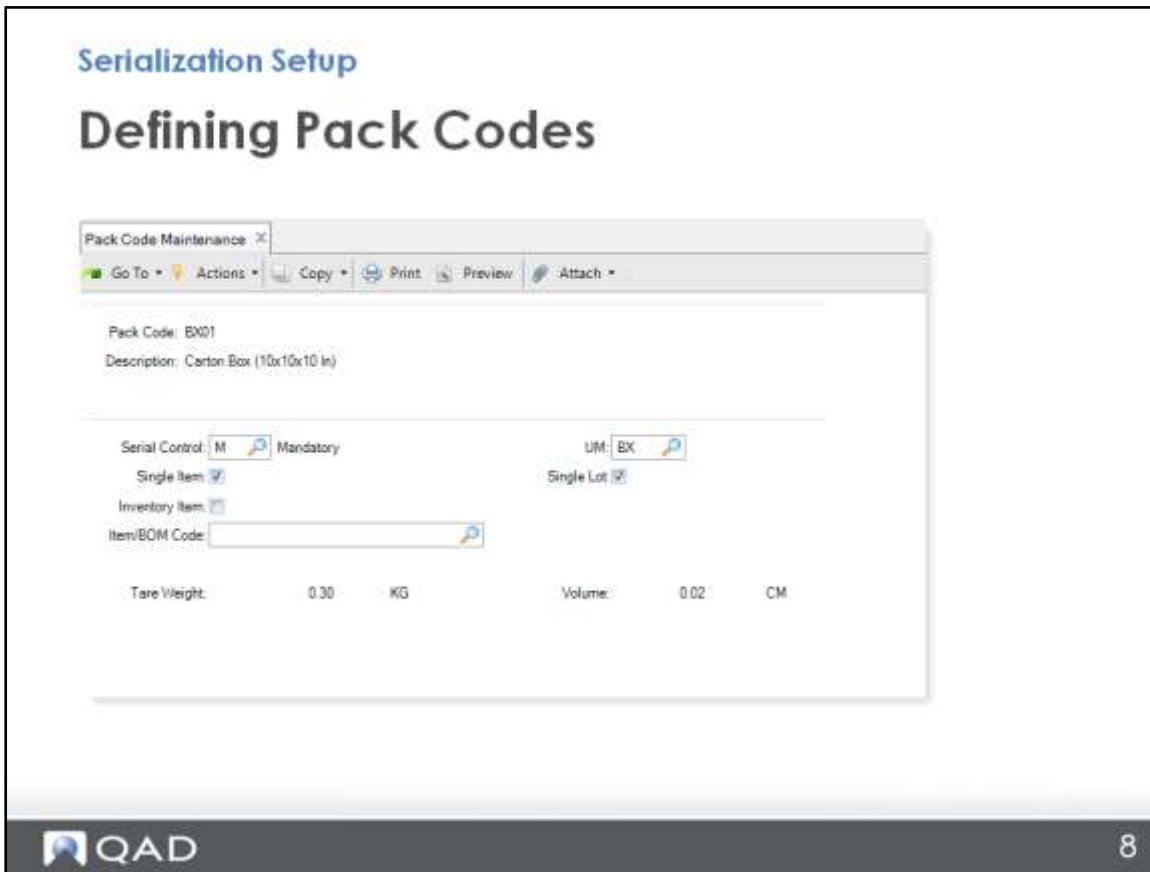
item. However, you can still pack it in a serialized pack. You must enter a lot number.

- **S: Single Lot.** Lot is limited to having a maximum of quantity of one (1). During issues and receipts, the maximum quantity for each lot is a quantity of one. For example, when you receive 10, you must enter 10 lot numbers with a quantity of one each.

When the Serial Control field is set to M(andatory), you cannot set this field to S. And, conversely, when you set Lot Control to S, you cannot set Serial Control to M.

The value entered in Item Master Maintenance is used as the default for all sites. Set up site-specific values in Item-Site Inventory Data Maintenance.

Defining Pack Codes



Use Pack Code Maintenance (13.14.1) to define pack codes for pallets, shippers, or cartons. You can set up pack codes for any type of packaging. You use pack codes to define the type of packaging that helps define the way items and inventory are stored to facilitate warehouse and logistics activities.

Serial Control: Define whether this pack is serialized. It can be

- M: Mandatory
- N: Never

You can override the N value in Packaging Structure Maintenance so that the pack code can be serialized when used by a particular BOP.

Single Item: Specify No when the pack can hold different items.

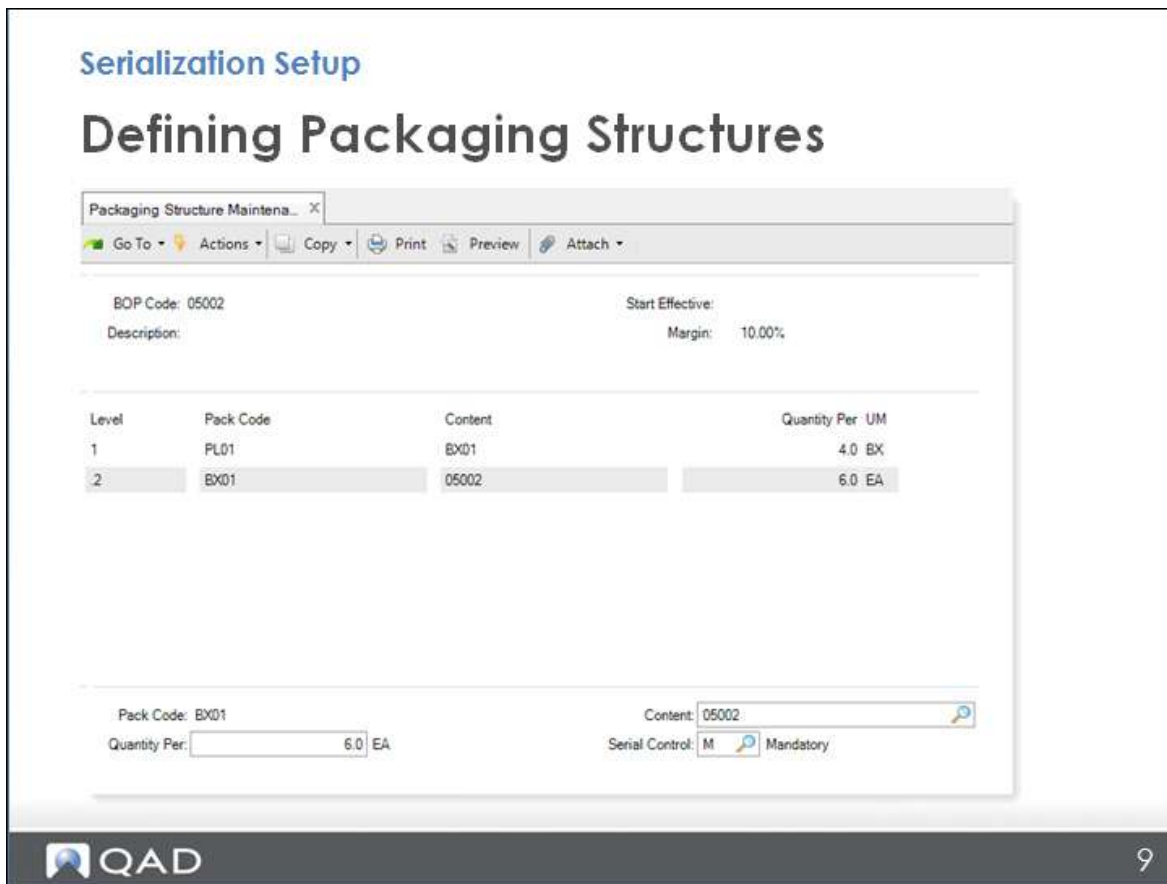
Single Lot: Specify No when the pack can hold items from different lots. For any pack, if Single Item is set to No, the setting of Single Lot does not have an impact on packaging transactions.

Inventory Item: Specify Yes if you want the pack to be associated with an inventory item and the inventory item must be defined beforehand.

Item/BOM Code: Enter the item code of the pack. Specify a BOM code in case of multiple items to be

consumed when the pack is used. When Inventory Item is Yes, the system uses this field to consume the pack item. If it is blank when Inventory Item is Yes, it means that the item is the same as the pack code.

Defining Packaging Structures



Serialization Setup

Defining Packaging Structures

Packaging Structure Maintena... x

Go To ▾ Actions ▾ Copy ▾ Print Preview Attach ▾

BOP Code: 05002 Start Effective:
 Description: Margin: 10.00%

Level	Pack Code	Content	Quantity Per	UM
1	PL01	BX01	4.0	BX
2	BX01	05002	6.0	EA

Pack Code: BX01 Content: 05002
 Quantity Per: 6.0 EA Serial Control: M Mandatory

QAD 9

Use Packing Structure Maintenance to define a bill of packaging (BOP) code that determines the way goods are packaged and stored after receipt. BOP defines the way items are packaged as a single-level or a multiple-level packaging structure.

The lowest-level pack is the unit pack. The unit pack is the pack whose content is an inventory item. The highest-level pack is the master pack. When multiple packaging levels are in use, the master pack packaging type contains another pack (not an inventory item) that gets assembled in this pack. For example, an inventory item is stored in a box that is put into a case, which is then put on a pallet for storage and shipment. In this example, the box is the unit pack and the pallet is the master pack. A pack code is created for each level of packaging (box, case, and pallet) and the packaging structure is defined to describe the relationship between the pallet and case, the case and the box, and the box and the item.

Enter the margin percentage of additional serial IDs to allocate if you require additional quantities to cover any eventual scrap of numbers or have a greater range of numbers to select from for randomized serial ID assignments. For example, enter 10 if you believe that you may require an additional 10 percent of serial IDs.

Specify the content that the parent pack contains. This can be an inventory item, unit pack, or assembly pack. If the parent is a unit pack (lowest-level pack), a blank is allowed, meaning that any item can be put into this packaging structure.

Defining Item Packaging

Serialization Setup

Defining Item Packaging

Item Packaging Maintenance

Go To Actions Copy Print Preview

Item/BOM Code: 05002 EA
Pills, 50 Tab

Site: 10-500 Pharmaceutical Mfg Site
Address:
Transaction Type:

BOP Code: 05002

QAD 10

In the BOP structure, you relate the hierarchy to a specific item; that is, you define the content of the lowest-level (unit) pack. With Item Packaging Maintenance, you specify which default BOP structure the system uses with receipts. Item Packaging Maintenance lets you specify the site code, the address code, or a transaction type when packaging rules differ by site, ordering, receiving, or shipping address, or depending on the transaction type.

Note: These BOP definitions only serve as default options, which can still be overridden during receiving or pack build activities, if needed.

Setting Up Serial IDs

, Allow Discarding: , Allow Voiding: , Effective Date: 1/21/2015, and Expiration Date: . The 'Segment List' section contains a table with 3 rows: 1 FIXED P502QM Control, 2 DATE YW (YYWW) yes, and 3 INT 000000001.999999999.000000001.000000001."/>

Number Range Maintenance X

Go To Actions Copy Print Preview

Sequence Master

Sequence ID: SN502U
 Descriptor: Serial Item Unit for 05002
 Target Dataset: serial_id
 Internal:
 Allow Discarding: Effective Date: 1/21/2015
 Allow Voiding: Expiration Date:

Segment List

Nbr	Type	Settings	Control
1	FIXED	P502QM	
2	DATE	YW (YYWW)	yes
3	INT	000000001.999999999.000000001.000000001	

QAD 11

Use Number Range Maintenance (36.2.21.1) to define a number range for both internal and external serial IDs. If the serial IDs are imported, clear the Internal box. Set the Target Dataset field to serial_id.

Date Format: Specify the format of this date segment using a combination of the following elements:

- YY – year (two characters; for example, 15)
- Y4 – long year (four characters; for example, 2015)
- M – month (must also include a year element; for example, 6/15 or 6/2015)
- W – week (must also include a year element)
- D – day (must also include a year element)

Formatting elements can be added in any order. Month, week, and day values cannot be used without a year element attached, and any printable character (except commas and date elements) can be used as a delimiter between elements.

For example, YY, Y4, M/D/YY, and M/Y4 are acceptable date formats. The latter two use a forward slash (/) as a delimiter.

Setting Up Serial ID Ranges

The screenshot shows a web application interface for 'Setting Up Serial ID Ranges'. The main heading is 'Setting Up Serial ID Ranges' under the 'Serialization Setup' section. A window titled 'Serial ID Range Maintenance' is displayed, containing the following fields:

- Site: 10-500
- Address:
- Item/BOM Code: 05002
- Pack Code:
- Serial Range ID: SN502U

The window also includes a toolbar with 'Go To', 'Actions', 'Copy', 'Print', and 'Preview' options. The QAD logo and the number '12' are visible in the bottom right corner of the interface.

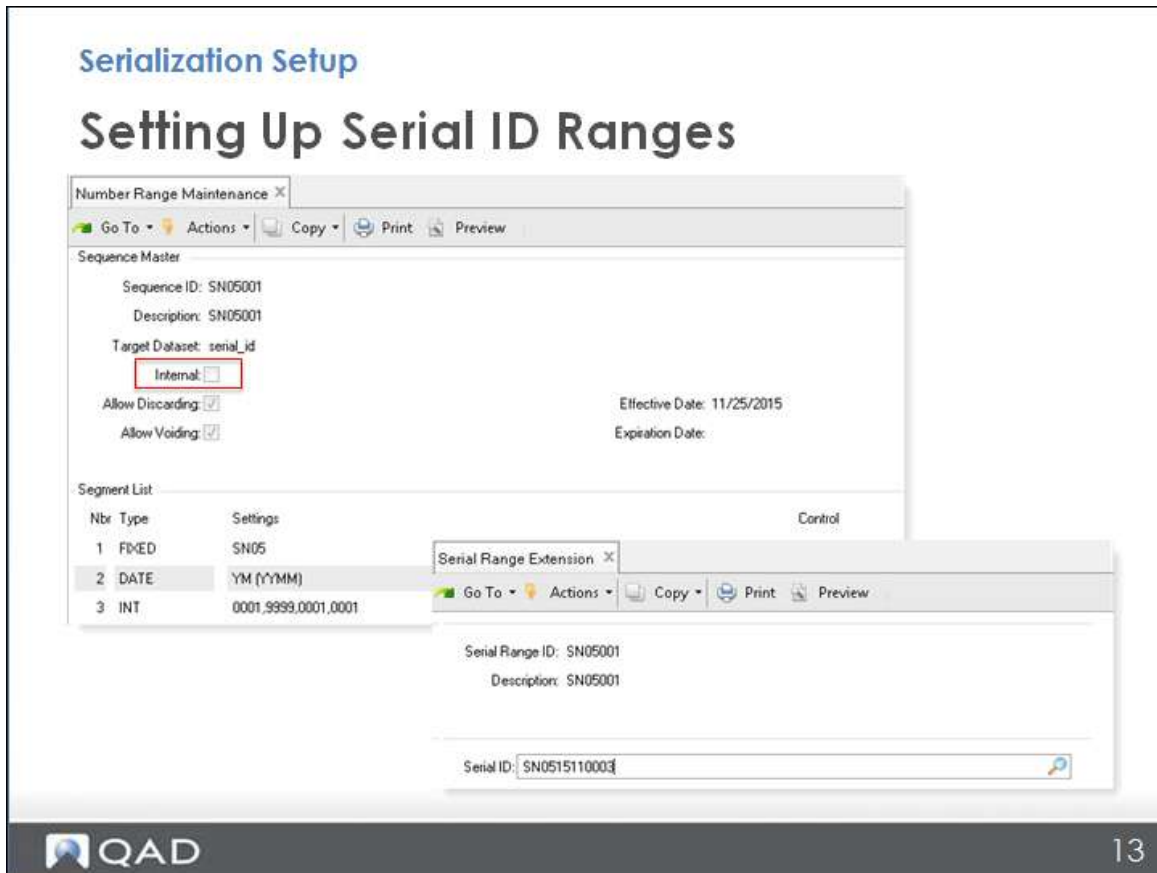
Use Serial ID Range Maintenance to define different serial ranges and to specify which serial ID range to use. You can set up a range of serial IDs by site, address, item number, or pack code.

If you leave the site, address, item, and pack code fields blank, then the entered serial ID range is for generic conditions.

After you enter the range, the system displays the Segment List frame. In the Segment List frame, the system displays the last used sequence number.

The address can be a supplier address, a sold-to or ship-to customer address, or a destination site address for distribution orders.

Setting Up Serial ID Ranges



You can use Serial Range Extension (13.14.21) to do either of the following:

- Import serial IDs from external sources
- Customize a serial ID range to include a custom segment in the NRM value to satisfy specific logistic requirements

To import serial IDs, define the serial range ID as an external sequence ID. To customize a serial range, define the serial range ID as an internal sequence ID and specify a customization program name.

Review

Serialization Setup


Review


- Setup Process Flow
- Setting Up Serialization Control
- Defining Pack Codes
- Defining Packaging Structures
- Defining Item Packaging
- Setting Up Lot/Serial Control Items
- Setting Up Serial IDs
- Setting Up Serial ID Ranges

Exercise: Serialization Setup

Serialization Setup

Exercise: Serialization Setup




15

In this exercise, you will practice setting up Serialization control, pack codes, packaging structures, and item packaging. In addition, you will practice setting up the lot/serial control of items, serial IDs, and serial ID ranges.

1. Use Serialization Control (3.17.24) to enable the Serialization functionality and to set the serial number control limit to 1000.
2. Use Item Master Copy (1.4.12) to create an item 10002 by copying from item 05002. Notice that the Serial Control field is set to N and the Lot Control field is set to L. Use Item Master Copy to create another item, 10010, by copying from item 05010. Change the value of Serial Control to M and the value of Lot Control to L.
3. Use Pack Code Maintenance (13.14.1) to create or modify pack codes. Use Pack Code Browse (13.14.2) to review or verify the pack codes that you have maintained.

Pack Code	BX10
Description	Box10
UM	BX

Tare Weight	1 KG
Volume	1 L
Pack Code	PL10
Description	Pallet
UM	PL
Tare Weight	2 KG
Volume	10 L
Pack Code	BX11
Description	Box11
UM	BX
Tare Weight	2 KG
Volume	10 L

4. Use Packaging Structure Maintenance (13.14.4) to create or modify packaging structure codes. Use Packaging Structure Browse (13.14.25) to review or verify the packaging structure codes that you have maintained.

BOP Code	10002
Pack Code	PL10
Content	BX10
Quantity Per	2
Pack Code	BX10
Content	10002
Quantity Per	2
BOP Code	10010
Pack Code	BX11
Content	10010
Quantity Per	4

5. Use Item Packaging Maintenance (13.14.7) to create or modify item packaging. Use Item Packaging Browse (13.14.8) to review or verify the item packaging that you have maintained.

Item/BOP Code	10002
Site	10-500
BOP Code	10002

Item/BOP Code	10010
Site	10-500
BOP Code	10010

6. Use Number Range Maintenance (36.2.21.1) to create a sequence ID, SRN10002. Use Sequence Browse (36.2.21.2) to review or verify the sequence ID that you have maintained.

Sequence ID	SN10002
Description	SN10002
Target Dataset	Serial_id
Internal	Yes
Allow Discarding	Yes
Allow Voiding	Yes
Nbr	1
Type	FIXED
Fixed Value	SN10
Nbr	2
Type	DATE
Control Segment	Yes
Date Format	YM
Nbr	3
Type	INT
Minimum Value	1
Maximum Value	9999
Initial Value	1
Reset Value	1
Sequence ID	SN10010
Description	SN10010
Target Dataset	Serial_id
Internal	Yes
Allow Discarding	Yes
Allow Voiding	Yes

Nbr	1
Type	FIXED
Fixed Value	SN11
Nbr	2
Type	DATE
Control Segment	Yes
Date Format	YM
Nbr	3
Type	INT
Minimum Value	1
Maximum Value	9999
Initial Value	1
Reset Value	1

- Use Serial ID Range Maintenance (13.14.19) to create a sequence ID range. Use Serial ID Range Browse (13.14.20) to review or verify the sequence ID that you have maintained.

Site	10-500
Item/BOP Code	10002
Serial Range ID	SN10002
Site	10-500
Item/BOP Code	10010
Serial Range ID	SN10010

CHAPTER 4

Packaging Inventory Transactions

Packaging Inventory Transactions

Serialization



Our Passion. Your Advantage.

Packaging Inventory Transactions

Packaging Inventory Transactions

Packaging Inventory Transactions

In this section, you will learn how to:

Identify key business considerations before setting up Serialization in QAD Enterprise Applications

Set up Serialization in QAD Enterprise Applications

- **Process Serialization in QAD Enterprise Applications**

Overview

Packaging Inventory Transactions

Overview

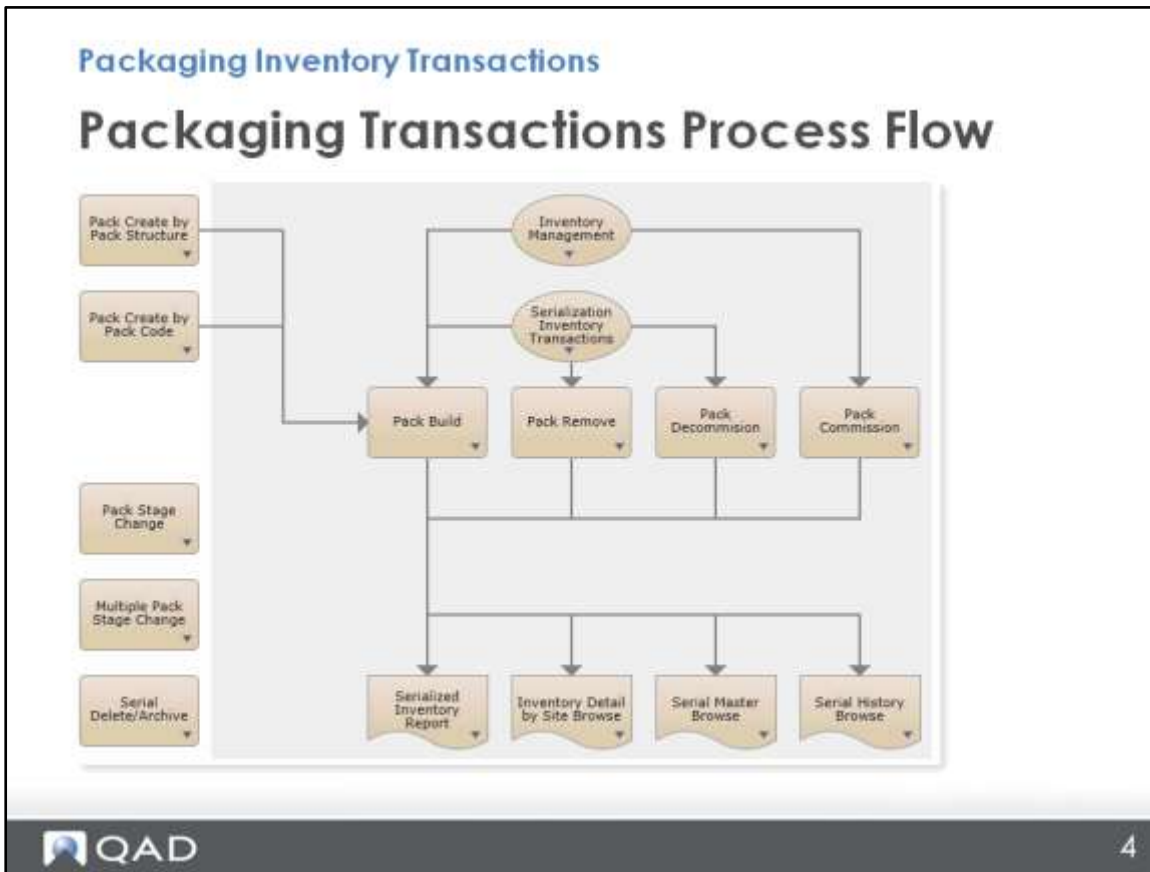
- Packaging Transactions Process Flow
- Packaging Transactions
- Pack Create by Pack Code
- Pack Create by Pack Structure
- Pack Build
- Pack Commission
- Pack Split
- Pack Merge
- Pack Remove

Packaging Inventory Transactions

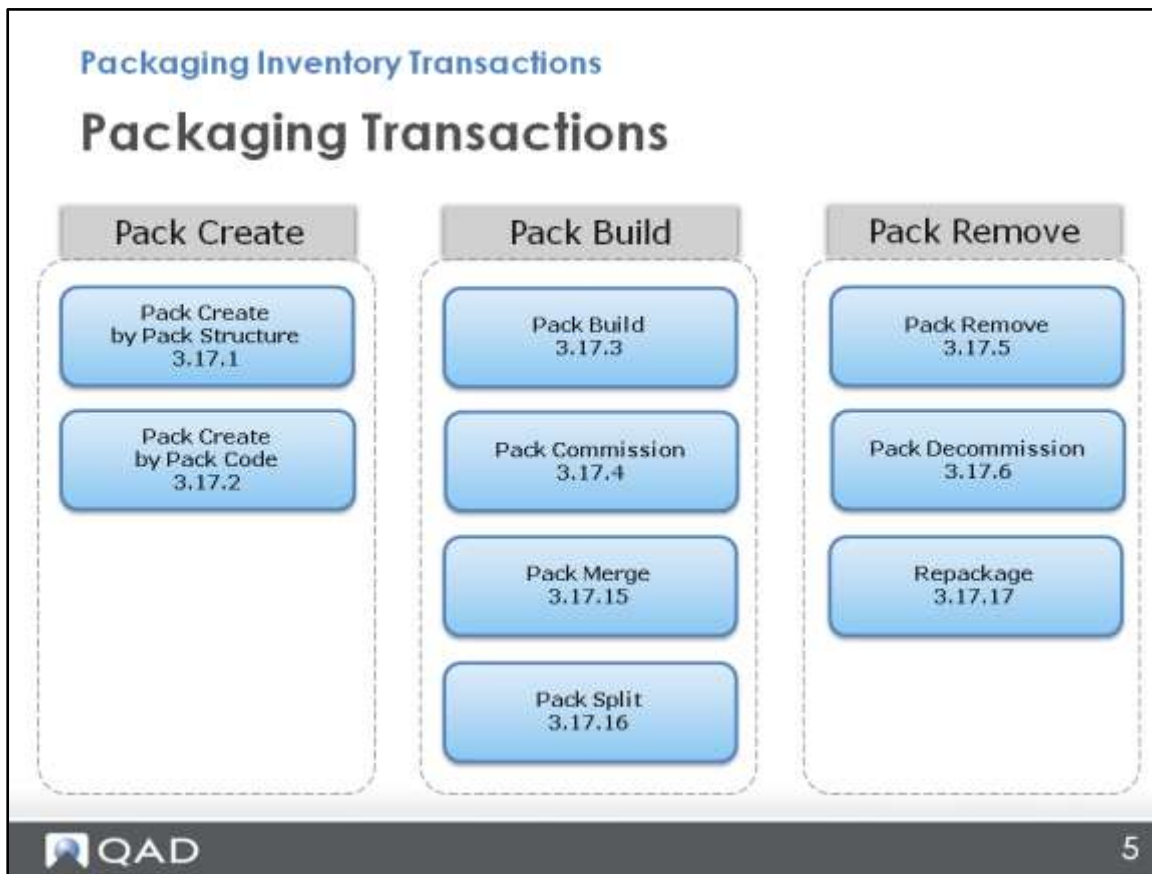
Overview – Continued

- Pack Decommission
- Repackage
- Inventory Transactions
- Pack Receipt
- Pack Issue
- Inventory Scarp
- Administration Functions
- Pack Stage Change
- Serial Delete/Archive

Packaging Transactions Process Flow



Packaging Transactions



Pack Create by Pack Code

Packaging Inventory Transactions

Pack Create by Pack Code

Pack Create by Pack Code

Go To Actions Copy Print Preview Attach

Inventory

Item: 04001 Fruit Juice 750 ml Bottl
 Lot/Serial: 04001-0215
 Reference:

Origin / Destination

Site: 10-500 Pharmaceutical Mfg Site
 Address:

Pack Data

Pack Code: BX01 Carton Box (10x10x10 In)
 Number of Packs: 1
 Pack Quantity: 4.0 EA

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Site	Item Number	Lot/Serial
10500A1509000000001	New	BX01	10500A1509000000001	New	10-500	04001	04001-0215

QAD 6

Use Pack Create by Pack Code (3.17.2) to create packs and print labels:

- Before inventory is received (inbound, work order)
- Outbound during packaging
- In the warehouse for serialized packaging units

Pack Create by Pack Code lets you define labels to be printed based on pack code and the number of packs.

You can also define the labels to be printed for items, lot/serial, or reference quantities. The system automatically selects serial ID numbers, stages the created serial master records as new, and optionally prints labels.

Pack Create by Pack Structure

Packaging Inventory Transactions

Pack Create by Pack Structure

Pack Create by Pack Structure X

Go To Actions Copy Print Preview Attach

Inventory

Item: 04001 Fruit Juice 750 ml Bottl

Lot/Seriel: 04001-0215

Reference:

Quantity: 24.0 EA

Origin / Destination

Site: 10-500 Pharmaceutical Mfg Site

Address:

BOP Code

BOP Code: 04001

BOP Code

BOP Code: 04001			
Full Master Pack:	<input type="text" value="1"/>	Full Pack Qty:	24.00 EA
Incomplete Master Pack:	<input type="text" value="0"/>	Incomplete Pack Qty:	0.00 EA

QAD 7

Use Pack Create by Pack Structure (3.17.1) to create packs and print labels:

- Before inventory is received (inbound, work order)
- Outbound during packaging
- In the warehouse for serialized packaging units

Pack Create by Pack Structure lets you generate packs or labels, or both, for all packaging levels at once, as defined in the packaging structure. This function also lets you change the pack content defined in the pack structure.

You can also define the labels to be printed for items, lot/serial, or reference quantities. The system automatically selects serial ID numbers, stages the created serial master records as New, and optionally prints labels.

Pack Create by Pack Structure

Packaging Inventory Transactions

Pack Create by Pack Structure

Serial Master Browse

Actions Setup Cancel Add to Favorites

Search
Serial ID starts at Search Clear All

Viewing 1 - 8 of 8 Records per page: 100

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Site	Item Number	Lot/Serial
10500A1509000000001	New	EX01	10500A1509000000001	New	10-500	04001	04001-0215
10500A1509000000002	New	PL01	10500A1509000000002	New	10-500	04001	04001-0215
10500A1509000000003	New	EX01	10500A1509000000003	New	10-500	04001	04001-0215
10500A1509000000004	New	EX01	10500A1509000000004	New	10-500	04001	04001-0215
10500A1509000000005	New	EX01	10500A1509000000005	New	10-500	04001	04001-0215
10500A1509000000006	New	EX01	10500A1509000000006	New	10-500	04001	04001-0215
10500A1509000000007	New	EX01	10500A1509000000007	New	10-500	04001	04001-0215
10500A1509000000008	New	EX01	10500A1509000000008	New	10-500	04001	04001-0215

BOP Code	Description	Start Date	Margin	Level	Pack Code	Content	Quantity Per	UM	Serial Control
04001			0.00%	1	PL01	EX01	6.0	BX	Mandatory
04001			0.00%	2	EX01	04001	4.0	EA	Mandatory

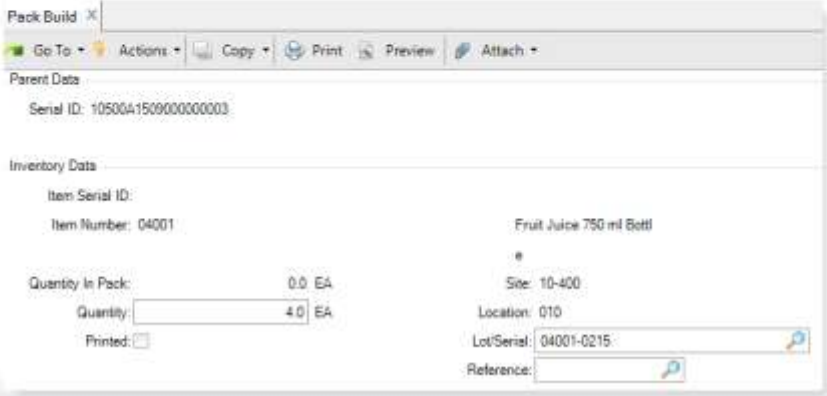
QAD 8

Pack Build

Packaging Inventory Transactions

Pack Build

- Build inventory into a unit pack
 - Increase Qty in Pack after pack building
 - Stage is "Active" after pack building
 - Consume package materials



Use Pack Build (3.17.3) to load inventory into a unit pack or to add lower-level packs on an assembly pack. You can build packs from the master pack. Pack Build supports both unit pack and assembly pack building.

You can load inventory in a new unit pack or in an existing unit pack. You can add lower-level packs to a new assembly pack or to an existing assembly pack. The system assumes that inventory is always available in stock, but not serialized. If the situation is otherwise, you must use Pack Receipts.


The system builds only one level pack each time. If the existing assembly pack links to a specific sales order and booking serial IDs exist for the sales order, the system verifies that all lower-level packs to be built on it are for the same sales order. All newly created serial IDs for this master pack are picked from booking IDs for that sales order.

Pack Build

Packaging Inventory Transactions

Pack Build

Page 1 / 1
9/7/2015
1:34:36 PM



Serialized Inventory Report

10USA USD


Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-400	010	04001 Fruit Juice 750 ml Bottle	04001-0215		101.00	4.00	97.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	10500A1509000000000	EX01	Active	4.00	EA
Total				4.00	EA

End of Report.

Search Criteria

Item Number	equals	04001
Site	equals	10-400
Location	equals	010
Display Item Serial ID	equals	No


10

Pack Build

Packaging Inventory Transactions

Pack Build

- Build packs into an assembly pack
 - Number of Child Packs and Total Inventory in Pack fields are increased
 - Master pack stage is Active after pack building
 - Child pack stage becomes Aggregated
 - Consume package materials

The screenshot shows a 'Pack Build' window with a menu bar (Go To, Actions, Copy, Print, Preview) and the following data fields:

Parent Data	
Serial ID:	10500A1509000000002
Child Pack	
Serial ID:	10500A1509000000003
Additional Parent Pack	
Pack Code:	PL01
	GMA 2-way Pallet
Number of Child Packs:	1.0 / 6.0 BX
Total Inventory In Pack:	4.0 / 24.0 EA



If you build packs into an assembly pack:

- The values in the Number of Child Packs and Total Inventory in Pack fields are increased.
- The master pack stage is Active after pack building
- The child pack stage becomes Aggregated
- Consume package materials

Pack build scenarios:

- Create and build a new unit pack

Parent Serial ID: Blank


Child Serial ID: Blank

- Load inventory into an existing unit pack
Parent Serial ID: Unit pack serial ID
Child Serial ID: Blank
- Load inventory into a booked unit pack
Parent Serial ID: Booked serial ID
Child Serial ID: Blank
- Create and build a new assembly pack
Parent Serial ID: Blank
Child Serial ID: Child pack serial ID
- Load lower-level pack into an existing assembly pack
Parent Serial ID: Assembly pack Serial ID
Child Serial ID: Child pack serial ID
- Load lower-level pack into a booked assembly pack
Parent Serial ID: Booked serial ID
Child Serial ID: Child pack serial ID

Pack Build

Packaging Inventory Transactions

Pack Build



Serialized Inventory Report

10USA USD

Page 1 / 1
9/7/2015
1:50:36 PM


Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-400	010	04001 Fruit Juice 750 ml Bottl e	04001-0215		101.00	24.00	77.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	10500A1509000000002	PL01	Active	8.00	BX
.2	10500A1509000000003	BX01	Aggregated	4.00	EA
.2	10500A1509000000004	BX01	Aggregated	4.00	EA
.2	10500A1509000000005	BX01	Aggregated	4.00	EA
.2	10500A1509000000006	BX01	Aggregated	4.00	EA
.2	10500A1509000000007	BX01	Aggregated	4.00	EA
.2	10500A1509000000008	BX01	Aggregated	4.00	EA
Total				24.00	EA

End of Report

Search Criteria

Item Number equals 04001
 Site equals 10-400
 Display Item Serial ID equals No


12

Pack Commission

Packaging Inventory Transactions

Pack Commission

Pack Commission X

Go To - Actions - Copy - Print - Preview - Attach -

Inventory

Site: 10-400

Location: 010

Item Number: 04001

Lot/Serial: 04001-1015

Reference:

Quantity: 24.00000000

Origin / Destination

Address:

BOP Code

BOP Code

BOP Code: 04001

Full Master Pack:		Full Pack Qty:	24.00	EA
Incomplete Master Pack:	0	Incomplete Pack Qty:	0.00	EA

QAD 13

Use Pack Commission (3.17.4) as another method to build packs. You start by identifying inventory; then, you determine the packaging structure, based on the predefined BOP structure definition.

In contrast to Pack Build, Pack Commission starts with inventory and not with pack serial IDs. Pack Commission always creates packs; Pack Build can create packs but can also use packs created by pack creating functions. Both Pack Commission and Pack Build require that inventory is available.

Pack Split

Packaging Inventory Transactions

Pack Split

Pack Split x

Go To Actions Copy Print Preview

From Serial ID: 10500A1511000000001
Stage: Active
Pack Code: FL01

Split Serial: 10500A1511000000002
Item Number: 04001
Fruit Juice 750ml Bottl
Split Qty: 40 EA
Printed
Site: 10-400
Location: 010
Lot/Serial: 04001-1015
Reference:

To Serial ID:
To Pack Code:
Std Pack Qty: BK

QAD 14

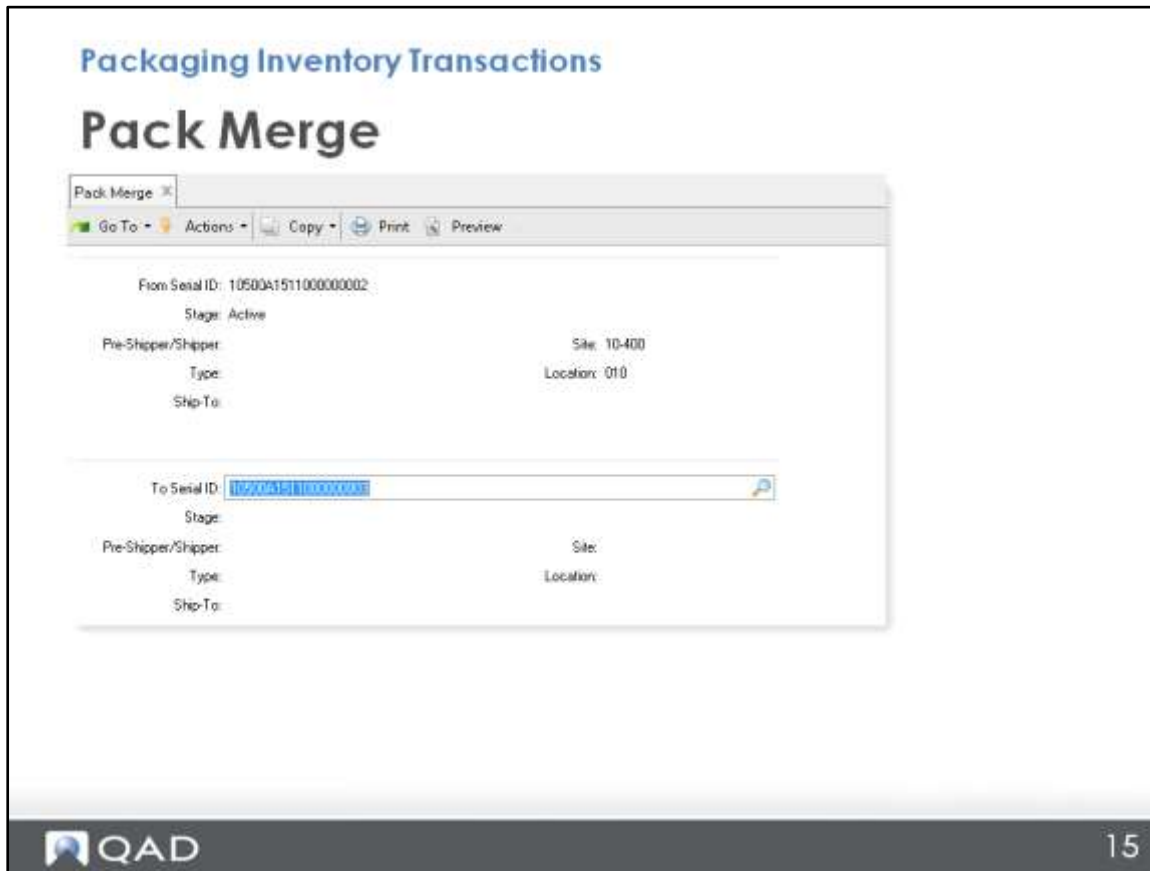
Use Pack Split (3.17.16) to remove all or partial inventory from the original pack and to build it into a destination pack.

In the From Serial ID field, specify the master pack from which you want to remove inventory. If the specified pack is a unit pack that holds non-serialized items, in the Split Qty field, enter the inventory quantity that you want to remove.

If the specified pack is an assembly pack, or a unit pack that holds serialized items, in the Split Serial field, enter the child serial IDs one by one to remove them. You can leave this field blank to remove all child serial IDs at the same time.

After the pack split, removed inventory is built into the To serial ID. The To serial ID becomes Active and stays in the same site/location as the original pack. Optionally, you can leave both the To Serial ID and To Pack Code fields blank to let the removed serial IDs or inventory become Active packs or items, or loose inventory. When the original pack becomes empty after inventory removal, the system decommissions the original pack.

Pack Merge



Use Pack Merge (3.17.15) to combine the content of two serial IDs. By specifying the From serial ID and the To serial ID, you move the content of the From serial ID to the pack of the To serial ID. After merging, the stage of the From pack becomes Decommed. All content from the From pack becomes the content of the To pack. If the From serial ID is an item serial ID, after merging, it becomes Aggregated to the To serial ID. Picking and pegging information for the From serial ID is copied and merged with that of the To pack.

You can use Pack Merge to do either of the following:

- Merge the content of one active serial ID into another active pack.
 - Merging the content of an active unit pack into another active unit pack that holds items with the same combination of item, lot, reference.
 - Merging the content of an active assembly pack into another active assembly pack, when the units of measure of their child packs are the same.
 - Merging an active item into an active unit pack that holds the same item with the same combination of item, lot, and reference.

- Merge the content of one picked serial ID into another picked pack.
 - Merging the content of a picked unit pack into another picked unit pack.
 - Merging the content of a picked unit pack into a picked assembly pack.
 - Merging the content of a picked assembly pack into a picked unit pack.
 - Merging the content of a picked assembly pack into another picked assembly pack.
 - Merging a picked item into a picked unit pack.

When the item, lot, and reference combination in the From serial ID is different from that in the To serial ID, the system validates the Single Item and Single Lot options of the pack code of the To serial ID.

When the From and To serial IDs are in different site/location combinations, a warning message is displayed. This message informs you that the system will transfer the From serial ID to the site/location of the To serial ID.

Pack Remove

Packaging Inventory Transactions

Pack Remove

- Remove inventory from a unit pack
 - Decrease Qty in Pack
 - Stage becomes Decommed if the pack is empty

The screenshot shows a web application window titled "Pack Remove". The window has a menu bar with "Go To", "Actions", "Copy", "Print", and "Preview". Below the menu bar, there are two main sections: "Parent Data" and "Inventory Data".

Parent Data:

- Serial ID: 10500A1509000000001
- Stage: Active

Inventory Data:

- Item Serial ID:
- Item Number: 04001
- Quantity In Pack: 4.0 EA
- Quantity: EA
- Printed:
- Fruit Juice 750 ml Bottl
- e
- Site: 10-400
- Location: 010
- Lot/Serial: 04001-0215
- Reference:

Use Pack Remove (3.17.5) to remove inventory from a unit pack. You can remove all or part of the inventory from a unit pack. Only one level of pack remove is supported.

Enter the serial ID in the Parent Data frame. The system displays the Inventory Data frame when the parent pack is a unit pack.

Pack Remove

Packaging Inventory Transactions

Pack Remove

Page 1 / 1
9/7/2015
2:17:06 PM

Serialized Inventory Report

10USA USD

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-400	010	04001 Fruit Juice 750 ml Bottl e	04001-0215		101.00	28.00	73.00	EA
Lv Serial ID Pack Code Stage Avail Pack Qty UM								
		1	10500A1509000000001	BX01	Active		4.00	EA
						Total	4.00	EA

End of Report

Serialized Inventory Report

10USA USD

Page 1 / 1
9/7/2015
2:22:07 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-400	010	04001 Fruit Juice 750 ml Bottl e	04001-0215		101.00	27.00	74.00	EA
Lv Serial ID Pack Code Stage Avail Pack Qty UM								
		1	10500A1509000000001	BX01	Active		3.00	EA
						Total	3.00	EA

17

Pack Remove

Packaging Inventory Transactions

Pack Remove

- Remove pack from an assembly pack
 - Decrease Qty in Pack
 - Assembly pack becomes Decommed if it is empty
 - Child pack becomes Active

Additional Parent Pack	
Pack Code:	PL01
	GMA 2-way Pallet
Number of Child Packs:	5.0 / 6.0 BX
Total Inventory In Pack:	20.0 / 24.0 EA

Use Pack Remove (3.17.5) to remove lower-level packs from an assembly pack. You can remove all or part lower-level packs from an assembly pack. Only one level of pack removal is supported.

Enter the serial ID in the Parent Data frame. When you do, the system displays the Unit Pack frame when the parent pack is an assembly pack.

Pack Remove

Packaging Inventory Transactions

Pack Remove

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-400	010	04001 Fruit Juice 750 ml Bottl e	04001-0215		101.00	27.00	74.00	EA

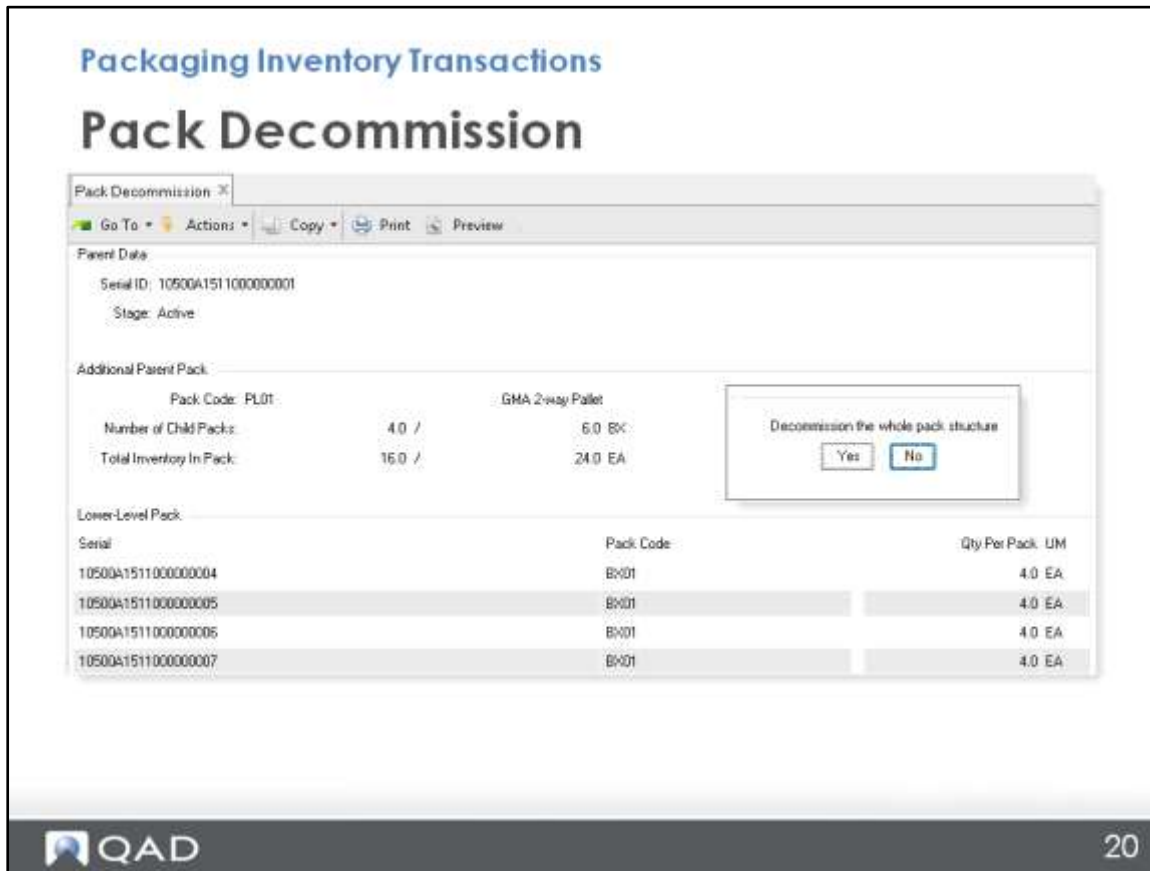
Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	10500A1509000000002	PL01	Active	5.00	BX
2	10500A1509000000003	BX01	Aggregated	4.00	EA
2	10500A1509000000004	BX01	Aggregated	4.00	EA
2	10500A1509000000005	BX01	Aggregated	4.00	EA
2	10500A1509000000006	BX01	Aggregated	4.00	EA
2	10500A1509000000007	BX01	Aggregated	4.00	EA
2	10500A1509000000008	BX01	Aggregated	4.00	EA
Total				24.00	EA

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-400	010	04001 Fruit Juice 750 ml Bottl e	04001-0215		101.00	27.00	74.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	10500A1509000000002	PL01	Active	5.00	BX
2	10500A1509000000003	BX01	Aggregated	4.00	EA
2	10500A1509000000004	BX01	Aggregated	4.00	EA
2	10500A1509000000005	BX01	Aggregated	4.00	EA
2	10500A1509000000006	BX01	Aggregated	4.00	EA
2	10500A1509000000007	BX01	Aggregated	4.00	EA
Total				20.00	EA

1	10500A1509000000008	BX01	Active	4.00	EA
Total				4.00	EA

Pack Decommission



Use Pack Decommission (3.17.6) to do any of the following:

- Remove all child packs at the lower level from an assembly pack and decommission the assembly pack. After the decommission, the assembly pack becomes Decommed, and all child packs in the lower level become Active. Package structures of the child packs remain the same.
- Remove all inventory units from a unit pack and decommission the unit pack. After the decommission, the unit pack becomes Decommed. Serialized items in the unit pack become Active. Non-serialized items become loose inventory.
- Decommission the whole package structure of an assembly pack. After the decommission, all packs at any level become Decommed. Serialized items in the unit pack become Active. Non-serialized items become loose inventory.

Repackage

Packaging Inventory Transactions

Repackage

Repackage X

Go To Actions Copy Print Preview Attach

From Serial ID: 10500A151100000003
Stage: Active Pack Code: BX01

Item Number: 04001 Fruit Juice 750 ml Bott
e

Repackage Qty: 4.0 EA Site: 10-400
Printed Location: 010
Lot/Serial: 04001-1015
Reference:

To Pack Code: BX01

Std Pack Qty: 4.0 EA
Nbr of Full Packs:
Qty in Partial Pack: 0.0 EA
Loose Inventory: 4.0 EA

QAD 21

Use Repackage (3.17.17) to repackage inventory that is stored in an Active unit pack. This function only allows you to repackage unit packs that hold non-serialized items.

By repackaging, you move all or partial inventory out of the unit pack, and then build all or part of the repackaged quantity into newly generated packs. If you build part of the repackaged quantity into packs, the remaining part of the repackaged quantity becomes loose inventory. The system generates new packs based on the pack code and the standard pack quantity that you specify. If the unit pack is booked for an SO line, the system picks the serial IDs from the pool of booked serial IDs. The system applies the entered pack code and pack quantity to those serial IDs.


After repackaging, the newly generated pack serial IDs become Active and stay in the same site/location as the original pack. The system decommissions the original unit pack when it becomes empty after repackaging.

Inventory Transactions

Packaging Inventory Transactions

Inventory Transactions

Receipt Unplanned	Issue Unplanned	Pack Transfer
<p>Pack Receipt Unplanned 3.17.13</p> <p>Receipts-Unplanned 3.9</p>	<p>Pack Issue Unplanned 3.17.14</p> <p>Issues-Unplanned 3.7</p> <p>Inventory Scrap</p> <p>Inventory Scrap By Pack 3.17.12</p> <p>Inventory Scrap Transaction 3.14</p>	<p>Pack Transfer 3.17.7</p> <p>Pack Transfer with L/S Change 3.17.8</p> <p>Pack Transfer-Multi Pack 3.17.9</p>

 22

Pack Receipt vs. Pack Build

Packaging Inventory Transactions	
Pack Receipt vs. Pack Build	
Pack Receipt	Pack Build
Increase QOH	No impact on QOH
Generate inventory transactions and serial transactions	Generate serial transactions
Build a pack structure, and then receive packs	Receive loose inventory, and then build a pack structure

QAD 23

Use Pack Receipt Unplanned to build both single-level and multiple-level packs and then receive them in this transaction or for pending receipts. You can load inventory to pending pallets without breaking down the pack structure.

Using Pack Receipt Unplanned, you can:

- Create new unit packs.
- Create new unit packs and new assembly packs.
- Build lower-level packs on an existing parent pack.
- Receive serialized items as loose inventory.

The differences between Pack Receipt and Pack Build:

- Pack Receipt increases the quantity on hand but Pack Build does not impact the quantity on hand.
- Pack Receipt generates inventory and serial transactions. Pack Build generates serial transactions.
- Pack Receipt builds the pack structure and then receives packs. Pack Build receives loose inventory and then builds the pack structure.

Pack Receipt

Packaging Inventory Transactions

Pack Receipt

- Generate serial IDs during receiving by the system

Site: 10-500 Pharmaceutical Mfg Site
Location: 010 Finished Goods

Gen Pack Serial

Parent Pack:
Serial ID:

Item Number: 05002 Pills, 50 Tab
Pack Code: BX01 Site: 10-500
Std Pack Qty: 6.0 EA Location: 010
Nbr of Full Packs: 4 Lot/Serial: 05002-090715
Qty in Partial Pack: 0.0 EA Reference:
Quantity: 0.0 EA Gen Item Ser

The system generates Serial IDs

The system generates Item Serial IDs

QAD 24

You can create new unit packs, and then load inventory to the new unit packs.

You can also create new unit packs and new assembly packs, and then build the unit packs on the assembly pack. You can then load the inventory into the unit packs and load the unit packs into the assembly pack.

When you set Gen Pack Serial to Yes, the system generates a number of serial IDs, according to:

- Pack code
- Standard pack quantity
- Number of full packs that you enter

Pack Receipt

Packaging Inventory Transactions

Pack Receipt

- Create serial IDs beforehand and create pack structure manually

Site: 10-500
Location: 010

Pharmaceutical Mfg Site
Finished Goods

Receive Detail - Quantity: 6 EA

Serial ID	Quantity
P502QM153700000013	1.0
P502QM153700000014	1.0

Parent Pack
Serial ID: P502QM153700000011

Unit Pack
Serial ID: P502QM153700000012

Inventory Data
Item Number: 05002
Quantity: 6.0 EA

Pills, 50 Tab
Site: 10-500
Location: 010
Lot/Serial: 05002-090815

Gen Pack Serial:

Gen Item Ser:

Printed:

Create pack hierarchy manually

Manually enter item serial IDs

25

You can create serial IDs beforehand (stage New) and then use this program to build lower-level packs on an existing parent pack.

Pack Receipt

Packaging Inventory Transactions

Pack Receipt

Serial Master Browse

Search (Serial ID = P502QM153700000011)

Serial ID equals P502QM153700000011

Viewing 1 - 1 of 1 Records per page: 100

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Site	Location	Item Number	Lot/Serial
P502QM153700000011	Active	PL01	P502QM153700000011	Active	10-500	010	05002	05002-090E15

Serial History Browse

Search

Serial Hist Nbr starts at

Viewing 1 - 31 of 31 Records per page: 100

Serial Hist Nbr	Serial Hist Type	Serial ID	Pack Code	Parent Serial ID	Master Serial ID	Site	Loc	Item
89	PCK-CHS	P502QM1537000000011	PL01		P502QM1537000000011	10-500	010	05002
90	PCK-BLD	P502QM1537000000012	PL01	P502QM1537000000011	P502QM1537000000011	10-500	010	05002
91	PCK-CHS	P502QM1537000000012	BX01	P502QM1537000000011	P502QM1537000000011	10-500	010	05002
92	PCK-RCT	P502QM1537000000011	PL01		P502QM1537000000011	10-500	010	05002

QAD 26

View unplanned pack receipt results in Serial Master Browse and Serial History Browse. The stage is Active and the serial history type is PCK-RCT.

Pack Receipt

Packaging Inventory Transactions

Pack Receipt


- Receive serialized items without a pack

Pack Receipt Unplanned X
Go To • Actions • Copy • Print • Preview • Attach •

Site: 10-500	Pharmaceutical Mfg Site
Location: 010	Finished Goods
Gen Pack Serial: <input type="checkbox"/>	

Item Number: 05002	Fills: 50 Tab	Site: 10-500
Pack Code: <input style="width: 80%;" type="text"/>		Location: 010
Std Pack Qty: <input type="text" value="6.0"/> EA		Lot/Serial: <input type="text" value="05002-090815"/>
Nbr of Full Packs: <input type="text" value="6"/>		Reference: <input type="text"/>
Qty in Partial Pack: <input type="text" value="0.0"/> EA		Gen Item Ser: <input type="checkbox"/>
Quantity: <input type="text" value="0.0"/> EA		

Leave Pack Code blank


27

You can generate serial IDs for serialized items and receive the items to stock. If you leave the pack code blank, the system receives the serialized items without a pack. If you specify the pack code, the system receives the serialized items into the generated packs.

Pack Receipt

Packaging Inventory Transactions

Pack Receipt

- Receive serialized items without a pack

Pack Receipt Unplanned

Go To Actions Copy Print Preview Attach

Site: 10-500 Pharmaceutical Mfg Site
Location: 010 Finished Goods

Gen Pack Serial: []

Unit Pack

Serial ID:

Inventory Data

Item Number: 05002
Quantity: 6.0 EA

Gen Item Ser: []
Printed []

Serial ID	Quantity
P502QM1537000000028	1.0

Receive Detail - Quantity: 6 EA

Serial ID: P502QM1537000000028

Serial ID: P502QM1537000000028

Quantity: 1.00000000

Pills, 50 Tab

Site: 10-500
Location: 010
Serial: 05002-090815
Reference:

Create Pack?

Yes No

Select not to create packs

QAD 28

You can receive the serialized items without a pack by selecting No for the Create Pack option.

Pack Remove vs. Pack Issue

Packaging Inventory Transactions

Pack Remove vs. Pack Issue ^{A17}

Pack Issue	Pack Remove
Decrease QOH	No impact on QOH
Generate inventory transactions and serial transactions	Generate serial transactions
Stage becomes Consumed when the pack is empty	Stage becomes <u>Decommed</u> when the pack is empty

QAD 30

Use Pack Issue Unplanned (3.17.14) to do unplanned issues with serialized inventory.

If you use Issues–Unplanned (3.7) to issue inventory that is serialized, the system displays an error and prompts you to use Pack Issue Unplanned (3.17.14).

The differences between Pack Issue and Pack Remove:

- Pack Issue decreases the quantity on hand but Pack Remove does not impact the quantity on hand.
- Pack Issue generates inventory transactions and serial transactions. Pack Remove only generates serial transactions.
- Pack Issue changes the pack stage to Consumed when the pack is empty. Pack Remove changes the pack stage to Decommed when the pack is empty.

Pack Issue

Packaging Inventory Transactions

Pack Issue

- Issue Inventory – Serialized Items


Pack Issue Unplanned ✕

Go To Actions Copy Print Preview

Serial: P502QM1537000000029
Stage: Active

Inventory Data

Item Number: 05002	Pills, 50 Tab
Quantity In Pack: 1.0 EA	Site: 10-500
Issue Quantity: <input style="width: 100px;" type="text" value="1.00000000"/> EA	Location: 010
<input type="checkbox"/> Printed	Lot/Serial: 05002-090815
	Reference


30

Enter a valid serial ID for the issue pack. The system displays the stage, item, item description, site, and other data.

When the stage of the pack is Aggregated, the system prompts you to remove it from its parent pack.

Pack Issue

Packaging Inventory Transactions

Pack Issue

Serialized Inventory Report

10USA USD

Page 2 / 2

9/8/2015

2:00:10 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	05002 Pills, 50 Tab	05002-090815		12.00	6.00	6.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM 1537000000029		Active	1.00	EA
1	P502QM 1537000000030		Active	1.00	EA
1	P502QM 1537000000031		Active	1.00	EA
1	P502QM 1537000000032		Active	1.00	EA
1	P502QM 1537000000033		Active	1.00	EA
Total				6.00	EA

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	05002 Pills, 50 Tab	05002-090815		11.00	6.00	5.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM 1537000000030		Active	1.00	EA
1	P502QM 1537000000031		Active	1.00	EA
1	P502QM 1537000000032		Active	1.00	EA
1	P502QM 1537000000033		Active	1.00	EA
Total				5.00	EA

31

Pack Issue

The screenshot displays two windows from the QAD software interface. The top window is titled 'Packaging Inventory Transactions' and 'Pack Issue'. It shows a search for 'Serial ID = P502QM1537000000029'. The search results table has the following data:

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Item Number	Lot/Serial
P502QM1537000000029	Consumed		P502QM1537000000029	Consumed	05002	05002-090815

The bottom window is titled 'Serial History Browse'. It shows a search for 'Serial Hist Nbr'. The search results table has the following data:

Serial Hist Nbr	Serial Hist Type	Serial ID	Pack Code	Parent Serial ID	Master Serial ID	Item	Lot/Serial
133	PCK-ISS	P502QM1537000000029			P502QM1537000000029	05002	05002-090815

View unplanned pack issue results in Serial Master Browse and Serial History Browse. The stage is Consumed and the serial history type is PCK-ISS.

Pack Issue

Packaging Inventory Transactions

Pack Issue

- Issue Inventory – Non-Serialized Items

Pack Issue Unplanned X

Go To • Actions • Copy • Print • Preview

Serial: 10500A1509000000009
 Stage: Active

Inventory Data

Item Number: 04001	Fruit Juice 750 ml Bottl
Quantity in Pack: 2.0 EA	Site: 10-500
Issue Quantity: 1.0 EA	Location: 010
Printed: <input type="checkbox"/>	Lot/Serial: 04001-090815
	Reference:

Pack Issue

Packaging Inventory Transactions

Pack Issue

Page 1 / 1
9/8/2015
2:48:12 PM

Serialized Inventory Report

10USA USD

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	04001 Fruit Juice 750 ml Bottl e	04001-090815		2.00	2.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	10500A1509000000009	BX01	Active	2.00	EA
Total				2.00	EA

Serialized Inventory Report

10USA USD

Page 1 / 1
9/8/2015
2:52:59 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	04001 Fruit Juice 750 ml Bottl e	04001-090815		1.00	1.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	10500A1509000000009	BX01	Active	1.00	EA
Total				1.00	EA

End of Report

34

Pack Issue

Packaging Inventory Transactions

Pack Issue

- Issue lower-level packs

Pack Issue Unplanned x

Go To Actions Copy Print Preview


Serial: P502QM1537000000002
Stage: Active

Lower-Level Pack

Issue Pack Serial: P502QM1537000000001

Item Number: 05002 Pills, 50 Tab

Quantity In Pack: 6.0 EA Site: 10-500
Quantity: 6.0 EA Location: 010
Printed: Lot/Serial: 05002-050715
Reference:



35

If the serial ID is for an assembly pack, enter the serial ID of a lower-level pack to do a partial issue, or leave it blank to issue the entire pack.

Pack Issue

Packaging Inventory Transactions

Pack Issue



Serialized Inventory Report

10USA USD

Page 1 of 1
9/8/2015
3:45:51 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	05002 Pills, 50 Tab	05002-090715		48.00	48.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1537000000002	PL01	Active	4.00	BX
.2	P502QM1537000000001	BX01	Aggregated	6.00	EA
.2	P502QM1537000000003	BX01	Aggregated	6.00	EA
.2	P502QM1537000000004	BX01	Aggregated	6.00	EA
.2	P502QM1537000000005	BX01	Aggregated	6.00	EA
Total				24.00	EA

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	05002 Pills, 50 Tab	05002-090715		42.00	42.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1537000000002	PL01	Active	3.00	BX
.2	P502QM1537000000003	BX01	Aggregated	6.00	EA
.2	P502QM1537000000004	BX01	Aggregated	6.00	EA
.2	P502QM1537000000005	BX01	Aggregated	6.00	EA
Total				18.00	EA


36

Inventory Scrap

Packaging Inventory Transactions

Inventory Scrap

- Inventory Scrap by Pack
- Scrap full packs or part of a pack
- Scrap non-serialized loose items
- If all content of a pack is scrapped, the stage is changed to Decommed
- The stage of the scrapped serialized item is changed to Consumed



Use Inventory Scrap by Pack (3.17.12) to scrap inventory by pack. You can identify the packs to be scrapped, and scrap full packs or part of a pack. You can also scrap non-serialized loose items with this function.

If all content of a pack is scrapped, the system changes the stage of the pack to Decommed. The system changes the stage of scrapped serialized items to Consumed.

Inventory Scrap

Packaging Inventory Transactions

Inventory Scrap

- Scrap Inventory – Serialized Items

Inventory Scrap By Pack: X


Go To ▾ Actions ▾ Copy ▾ Print ▾ Preview ▾

Serial: P502QM1537000000019

Stage: Active

Inventory Data


Item Number: 05002	Pills: 50 Tab
Quantity In Pack: 1.0 EA	Site: 10-500
Scrapped Qty: 1.0 EA	Location: 010
Printed <input type="checkbox"/>	Lot/Serial: 05002-090815
Reason Code: <input style="width: 80px;" type="text" value="Scrap"/>	Reference:



38

Specify the serial ID to be scrapped. The pack or item serial that you enter must be active or aggregated on an active master pack.

When you enter an item serial ID, the system scraps the specified item. When the item is aggregated on an active master pack, the system removes the item automatically.




Questions? Visit community.qad.com

Inventory Scrap

Packaging Inventory Transactions

Inventory Scrap


Page 1 / 1
08/2015
4:26:51 PM



Serialized Inventory Report

10USA USD

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	05002 Pills, 50 Tab	05002-090815		11.00	5.00	5.00	EA
Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM			
1	P502QM153700000019		Active	1.00	EA			
1	P502QM153700000030		Active	1.00	EA			
Total				2.00	EA			




Serialized Inventory Report

10USA USD

Page 1 / 1
08/2015
4:36:26 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	05002 Pills, 50 Tab	05002-090815		10.00	5.00	4.00	EA
Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM			
1	P502QM153700000030		Active	1.00	EA			
Total				1.00	EA			


39

Inventory Scrap

Packaging Inventory Transactions

Inventory Scrap

- Scrap Inventory – Non-Serialized Items in a Pack

Inventory Scrap By Pack

Go To Actions Copy Print Preview

Serial: 10500A150900000010
Stage: Active

Inventory Data

Item Number: 04001	Fruit Juice 750 ml Bott e
Quantity In Pack: 4.0 EA	Site: 10-500
Scrapped Qty: 1.0 EA	Location: 010
Printed: <input type="checkbox"/>	Lot/Serial: 091015
Reason Code: Scrap	Reference:

QAD 40


When you scrap a non-serialized item that is contained in a unit pack, you are required to enter a scrap quantity in the Inventory Data frame.

Inventory Scrap

Packaging Inventory Transactions

Inventory Scrap

Page 1 / 1
8/8/2015
5:17:23 PM



Serialized Inventory Report

10USA USD


Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	04001 Fruit Juice 750 ml Bottl e	091015		4.00	4.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	10500A1509000000010	BX01	Active	4.00	EA
Total				4.00	EA

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	04001 Fruit Juice 750 ml Bottl e	091015		3.00	3.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	10500A1509000000010	BX01	Active	3.00	EA
Total				3.00	EA

End of Report


41

Inventory Scrap

Packaging Inventory Transactions

Inventory Scrap

- Scrap Inventory – Loose Non-Serialized Items

Inventory Scrap By Pack X

Go To Actions Copy Print Preview Attach

Serial:

Stage

Inventory Data

Item Number: 04001	Fruit Juice 750 ml Bott
Quantity In Pack: 0.0 EA	Site: 10-400 <input type="button" value="🔍"/>
Scrapped Qty: 2.0 EA	Location: 010 <input type="button" value="🔍"/>
Printed: <input type="checkbox"/>	Lot/Serial: 04001-0215 <input type="button" value="🔍"/>
Reason Code: Scrap <input type="button" value="🔍"/>	Reference: <input type="button" value="🔍"/>

QAD
42

When you leave the Serial field blank, you can enter non-serialized loose items to scrap. The system displays the Inventory Data frame for you to enter the item number, scrap quantity, site, location, lot/serial, and reference.

Inventory Scrap

The screenshot displays two instances of the 'Serialized Inventory Report' for 'Fruit Juice 750 ml Bottle' at site 10-400, location 010. The top report shows a 'Loose Inv' of 74.00, while the bottom report shows a 'Loose Inv' of 72.00. A red box highlights the 'Loose Inv' column in both reports, and a red arrow points from the top report's value to the bottom report's value. The bottom report also has a red box around the 'Qty in Pack' value of 26.00.

Serialized Inventory Report (Top)
Page 1 / 1
9/8/2015
5:33:02 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-400	010	04001 Fruit Juice 750 ml Bottl e	04001-0215		100.00	26.00	74.00	EA

Serialized Inventory Report (Bottom)
Page 1 / 1
9/8/2015
5:37:27 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-400	010	04001 Fruit Juice 750 ml Bottl e	04001-0215		98.00	26.00	72.00	EA

QAD 43

Inventory Scrap

Packaging Inventory Transactions

Inventory Scrap

- Scrap packs

Inventory Scrap By Pack: X


Go To • Actions • Copy • Print • Preview

Serial: P502QM1537000000002

Stage: Active

Inventory Data

Item Number: 05002	Pills, 60 Tab
Quantity In Pack: 18.0 EA	Site: 10-500
Scrapped Qty: 18.0 EA	Location: 010
Printed <input type="checkbox"/>	Lot/Serial: 05002-090715
Reason Code: <input type="text" value="Scrap"/>	Reference:


44


When you enter an assembly pack serial ID, the system scraps the whole pack. When the pack is aggregated on an active master pack, the system removes the pack automatically. When multiple items are included in the pack, the system scraps all items.

When you enter a serial ID of a unit pack that contains serialized items, the system scraps all items in the pack and removes the pack automatically.

Inventory Scrap

Packaging Inventory Transactions

Inventory Scrap



Serialized Inventory Report

10,USA, USD

Page 1 / 1
8/9/2015
10:14:11 AM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	05002 Pits_50 Tab	05002-090715		42.00	42.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1537000000002	PL01	Active	3.00	BX
.2	P502QM1537000000003	BX01	Aggregated	6.00	EA
.2	P502QM1537000000004	BX01	Aggregated	6.00	EA
.2	P502QM1537000000005	BX01	Aggregated	6.00	EA
Total				18.00	EA


Serial Master Browse

Actions Setup Cancel Add to Favorites

Search (Serial ID) => P502QM1537000000002

Viewing 1 - 32 of 32 Records per page: 100

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Item Number	Lot/Serial	Site
P502QM1537000000002	Decommed	PL01	P502QM1537000000002	Decommed			
P502QM1537000000003	Decommed	BX01	P502QM1537000000003	Decommed			
P502QM1537000000004	Decommed	BX01	P502QM1537000000004	Decommed			
P502QM1537000000005	Decommed	BX01	P502QM1537000000005	Decommed			


45

Pack Transfer

Packaging Inventory Transactions

Pack Transfer

- Move inventory by pack
- Scan the master pack serial ID to move the whole pack
- Generate both inventory transactions and serial transactions



46

Use Pack Transfer (3.17.7) to transfer inventory by scanning serial IDs for either the unit pack or assembly pack.

Use Pack Transfer with L/S Change (3.17.8) to transfer unit packs or assembly packs by scanning serial ID with lot change. You can only transfer single-item, single-lot packs with this program. The fields are similar to Pack Transfer, except that you also specify the lot/serial number for transfer and the reference number.

Use Pack Transfer–Multi Pack (3.17.9) to select a range of inventory detail records to transfer. The system transfers the packs with master serial IDs in the selected range.

You scan the master pack serial ID to move the whole pack. The system generates both inventory transactions and serial transactions.

Pack Transfer

Packaging Inventory Transactions

Pack Transfer

- Move pack to another site/location

Pack Transfer


Go To • Actions • Copy • Print • Preview • Attach •

Serial ID: P502QM153700000007
Stage: Active

Item Number: 05002 Pills, 50 Tab

Transfer To Site: 10-500 Location: 020
Lot/Serial: 05002-090715 Reference:

Effective Date: 9/9/2015
Order:
Sales/Job: Remarks:


 47

Enter the serial ID for this pack transfer. If you enter the serial ID of an aggregated pack whose direct parent is a master pack, the system displays a warning and prompts you to remove it.

Pack Transfer

Packaging Inventory Transactions

Pack Transfer



Serialized Inventory Report

10USA USD

Page 1 / 1
9/9/2015
10:32:33 AM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	05002 Pills, 50 Tab	05002-090715		24.00	24.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1537000000007	PL01	Active	4.00	BX
2	P502QM1537000000006	BX01	Aggregated	6.00	EA
2	P502QM1537000000008	BX01	Aggregated	6.00	EA
2	P502QM1537000000009	BX01	Aggregated	6.00	EA
2	P502QM1537000000010	BX01	Aggregated	6.00	EA
Total				24.00	EA

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	020	05002 Pills, 50 Tab	05002-090715		24.00	24.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1537000000007	PL01	Active	4.00	BX
2	P502QM1537000000006	BX01	Aggregated	6.00	EA
2	P502QM1537000000008	BX01	Aggregated	6.00	EA
2	P502QM1537000000009	BX01	Aggregated	6.00	EA
2	P502QM1537000000010	BX01	Aggregated	6.00	EA
Total				24.00	EA


48

Administration Functions

The screenshot displays the 'Administration Functions' section of the QAD Packaging Inventory Transactions interface. It features two main categories: 'Stage Change' and 'Delete/Archive'. Under 'Stage Change', there are two options: 'Pack Stage Change 3.17.10' and 'Multiple Pack Stage Change 3.17.11'. Under 'Delete/Archive', there is one option: 'Serial Delete/Archive 3.17.23'. The QAD logo is visible in the bottom left corner, and the page number '49' is in the bottom right corner.

Packaging Inventory Transactions

Administration Functions

Stage Change

- Pack Stage Change 3.17.10
- Multiple Pack Stage Change 3.17.11

Delete/Archive

- Serial Delete/Archive 3.17.23

QAD 49

Pack Stage Change

Packaging Inventory Transactions

Pack Stage Change

- Change serial stage between inactive stages.
- Inactive stages include: Booked, New, Pending, Consumed, Decommed, and Inv Adjusted.
- Refer to change rules below.

From \ To	Booked	New	Pending	Consumed	Decommed	Inv Adjusted
Booked	NA	No	No	No	No	No
New	Yes - V	NA	No	No	Yes	No
Pending	Yes - V	Yes - V	NA	No	Yes	Yes
Consumed	Yes - V	Yes - V	No	NA	Yes - V	Yes - V
Decommed	Yes - V	Yes - V	No	No	NA	No
Inv Adjusted	Yes - V	Yes - V	No	No	Yes	NA

Yes - V means some validations exist

Use Pack Stage Change (3.17.10) to change the stage of packs between inactive stages. Inactive stages include the Booked, New, Pending, Consumed, Decommed, Unused, and Inv Adjusted stages.

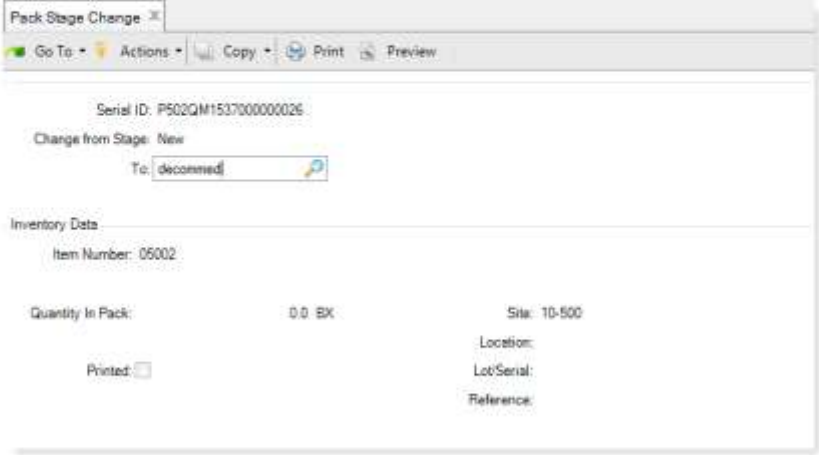
You cannot change the stage code to Consumed, Active, Picked, or Pending in this program. The system records the serial history.

Pack Stage Change

Packaging Inventory Transactions

Pack Stage Change

- PCK-CHS serial history is created



Serial ID: P502QM153700000026

Change from Stage: New

To:

Inventory Data

Item Number: 05002

Quantity In Pack: 0.0 BX Site: 10-500

Location:

Lot/Serial:

Reference:

Printed:

QAD 51

Enter the serial ID to be changed. Make sure that the entered pack or item serial is inactive. The system displays inventory information in the Inventory Data frame. The system also displays linked order information in the Order Information frame.

Pack Stage Change

Packaging Inventory Transactions
Pack Stage Change

Serial Master Browse X

Actions Setup Cancel Add to Favorites

Search

Serial ID starts at Search Clear All

Viewing 1 - 44 of 44 Records per page: 100

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Item Number	Site	Location
P502QM1537000000026	New	PL01	P502QM1537000000026	New	05002	10-500	
P502QM1537000000027	New	BK01	P502QM1537000000027	New	05002	10-500	

Serial Master Browse X

Actions Setup Cancel Add to Favorites

Search

Serial ID starts at Search Clear All

Viewing 1 - 44 of 44 Records per page: 100

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Item Number	Site	Location
P502QM1537000000026	Decommed	PL01	P502QM1537000000026	Decommed			
P502QM1537000000027	New	BK01	P502QM1537000000027	New	05002	10-500	

QAD 52

Serial Delete/Archive

Packaging Inventory Transactions

Serial Delete/Archive

- Delete/Archive serial master and/or serial history.
- Allowed stages include: Consumed, Decommed, and Unused.

Use Serial Delete/Archive (3.17.23) to delete or archive serial master and serial history. The allowed stages include: Consumed, Decommed, and Unused.

Serial Delete/Archive

Packaging Inventory Transactions

Serial Delete/Archive

The screenshot displays the 'Serial Delete/Archive - Viewer' window. It features a toolbar with options: New Filter, Open, Save, Save As, Delete, Settings, Layout, and Schedule. Below the toolbar is a 'Search Conditions' section with the following fields:

Field	Operator	Value	Buttons
Master Serial ID	range		[-] [0] [X]
Modified Date	range		[-] [0] [X]
Site	range	10-500	[+] [0] [X]
Location	range		[+] [0] [X]
Consumed Serial	equals	No	[+] [X]
Decommed Serial	equals	No	[+] [X]
Unused Serial	equals	No	[+] [X]
Include Serial History	equals	No	[+] [X]
Delete	equals	No	[+] [X]
Archive	equals	No	[+] [X]
Archive File	equals	ser150900.txt	[+] [X]

QAD 54

Review

Packaging Inventory Transactions

Review

- Packaging Transactions Process Flow
- Packaging Transactions
- Pack Create by Pack Code
- Pack Create by Pack Structure
- Pack Build
- Pack Commission
- Pack Split
- Pack Merge
- Pack Remove

Packaging Inventory Transactions

Review – Continued

- Pack Decommission
- Repackage
- Inventory Transactions
- Pack Receipt
- Pack Issue
- Inventory Scarp
- Administration Functions
- Pack Stage Change
- Serial Delete/Archive

Exercise: Packaging Inventory Transactions

Packaging Inventory Transactions

Exercise: Packaging Inventory Transactions




56

Part 1

In this exercise, you will practice doing packaging inventory transactions, including Pack Create by Pack Code or Pack Structure, Pack Build, and Pack Remove.

1. Use Pack Create by Pack Structure (3.17.1) to create one pack of PL10 and two packs of BX10 for item 10002. Use Serial Master Browse to review or verify the created serial IDs and notice that the stages are New. Write down the serial IDs here.
_____.
2. Use Pack Create by Pack Code (3.17.2) to create one pack of BX11 for item 10010. Use Serial Master Browse (3.17.22.2) to review or verify the created serial IDs and notice that the stages are New. Write down the serial IDs here.
_____.
3. Use Receipts – Unplanned (3.9) to receive 10 items of 10002 with the lot/serial number 10002-1113.
4. Use Pack Build (3.17.3) to build two packs of BX10 whose pack codes are from Step 1. Use Serial Master Browse to review the serial IDs and notice that the stages now become Active.

5. Use Pack Build to build one pack of PL10 whose pack code is from Step 1 and choose the child packs that you built. Use Serial Master Browse to review the serial IDs and note that the child pack stages now become Aggregated and the parent pack stage becomes Active.
6. Use Pack Build to build a pack of BX10 and leave the Serial ID fields for the parent pack, child pack, and item blank. Choose two items of 10002 with lot/serial 10002-1113. Use Serial Master Browse to review the created serial IDs and note that the stages of the unit packs are Active. Write down the serial IDs here.
_____.
7. Use Pack Remove (3.17.5) to remove two items of 10002 from a unit pack BX10 that you built in Step 6. Use Serial Master Browse to review the serial ID and note that the pack stage now becomes Decommed.
8. Use Pack Remove to remove one child pack from the assembly pack PL10 that you built in Step 5. Use Serial Master Browse to review the serial ID and note that the stage of the removed pack now becomes Active and the stage of the assembly pack is still Active. Write down the serial ID here.
_____.

Part 2

In this exercise, you will practice doing packaging inventory transactions, including Pack Receipt Unplanned and Pack Issue Unplanned.

1. Use Pack Receipt Unplanned (3.17.13) to generate new serial IDs and receive one full pack of PL10 (BOP code is 10002) for four items of 10002. Use Serialized Inventory Report (3.17.22.2) to review or verify the created serial IDs and note that the active pack of PL10 has two unit packs of BX10 aggregated on it. Use Serial History Browse (3.17.22.3) to review the serial history for the transaction and notice that the last serial history type is PCK-RCT. Use Inventory Detail by Item Browse (3.1.14) to view the total quantity of item 10002, which is 14.
2. Use Pack issue Unplanned (3.17.14) to issue the assembly pack of PL10, which you just received in Step 1. Use Serial Master Browse to review the serial IDs and note that the stages of the packs now become Consumed.
3. Use Pack Create by Pack Structure (3.17.1) to create one pack of PL10 and two packs of BX10 for item 10002. Use Serial Master Browse to review or verify the created serial IDs and note that the stages are New.
4. Use Pack Receipt Unplanned (3.17.13) to build the pack from the serial IDs that you created in Step 3 and receive one full pack of PL10 for item 10002. Use Serialized Inventory Report (3.17.22.2) to review or verify the serial IDs and note that the active PL10 has two BX10 aggregated on it.
5. Use Pack issue Unplanned (3.17.14) to issue a unit pack of PL10 that you created in Step 4. Use Serial Master Browse to review the serial ID and notice note that the stage of the unit pack now becomes Consumed but the stage of the assembly pack is still Active.
6. Use Pack Receipt Unplanned (3.17.13) to generate new serial IDs and receive one unit pack of BX11 (BOP code is 10010) for four items of 10010 (**Hint:** choose No when prompted to build pallets). Use Serialized Inventory Report (3.17.22.2) to review or verify the created serial IDs and notice that the active BX11 has four serialized items of 10010 aggregated on it. Use Serial History Browse (3.17.22.3) to review the serial history for the transaction and notice that the last serial history type is PCK-RCT. Use Inventory Detail by Item Browse (3.1.14) to view the total quantity of item 10010, which is 4.

7. Use Pack issue Unplanned (3.17.14) to issue all the serialized items of 10010 from Step 6. Use Serial Master Browse to review the serial IDs and notice that the stages now become Consumed.
8. Use Pack issue Unplanned (3.17.14) to issue a non-serialized item of 10002 that was received in Step 8 of last exercise (Part 1). Use Serial Master Browse to review the serial ID and notice that the stage of the unit pack is still Active but quantity in pack becomes 1.

Part 3

In this exercise, you will practice doing packaging inventory transactions, including inventory scrap and pack transfer.

1. Use Pack Receipt Unplanned (3.17.13) to generate new serial IDs and receive one full pack of PL10 (BOP code is 10002) for four items of 10002. Use Serialized Inventory Report (3.17.22.2) to review or verify the created serial IDs and note that one active PL10 has two BX10 aggregated on it.
2. Use Inventory Scrap by Pack (3.17.12) to scrap the assembly pack of PL10 that you received in Step 1. Use Serial Master Browse to review the serial ID and note that the stage of the pack now becomes Decommed.
3. Use Pack Receipt Unplanned (3.17.13) to generate new serial IDs and receive one unit pack of BX11 (BOP code is 10010) for four items of 10010 (**Hint:** choose No when prompted to build pallets). Use Serialized Inventory Report (3.17.22.2) to review or verify the created serial IDs and note that one active BX11 has four serialized items of 10010 aggregated on it.
4. Use Inventory Scrap by Pack (3.17.12) to scrap a serialized item from the unit pack of BX11 that you received in Step 3. Use Serial Master Browse to review the serial IDs and note that the stage of the pack is still Active but the serialized item now becomes Consumed.
5. Use Inventory Scrap by Pack (3.17.12) to scrap a non-serialized item from the unit pack of BX10 that was received in Step 8 of the Part 1 exercise. Use Serial Master Browse to review the serial ID and note that the stage of the pack now becomes Decommed.
6. Use Inventory Scrap by Pack (3.17.12) to scrap two loose non-serialized items of 10002 from stock. Use Inventory Detail by Item Browse (3.1.14) to view the total quantity of item 10002, which is 8.
7. Use Pack Transfer (3.17.7) to transfer the pack that you created in Step 3 to Location 010 at the same site. Use Serial Master Browse to review the serial ID and note that the locations of the pack and items now become 010.
8. Use Pack Stage Change (3.17.10) to change the stage of BX11 from New to Decommed that you created in Step 2 of the Part 1 exercise. Use Serial Master Browse to review the serial ID and note that the stage of the pack now becomes Decommed.

CHAPTER 5

Inbound Receipts

Inbound Receipts

Serialization



Our Passion. Your Advantage.

Inbound Receipts

Inbound Receipts

Inbound Receipts

In this section, you will learn how to:

Identify key business considerations before setting up Serialization in QAD Enterprise Applications

Set up Serialization in QAD Enterprise Applications

- **Process Serialization in QAD Enterprise Applications**

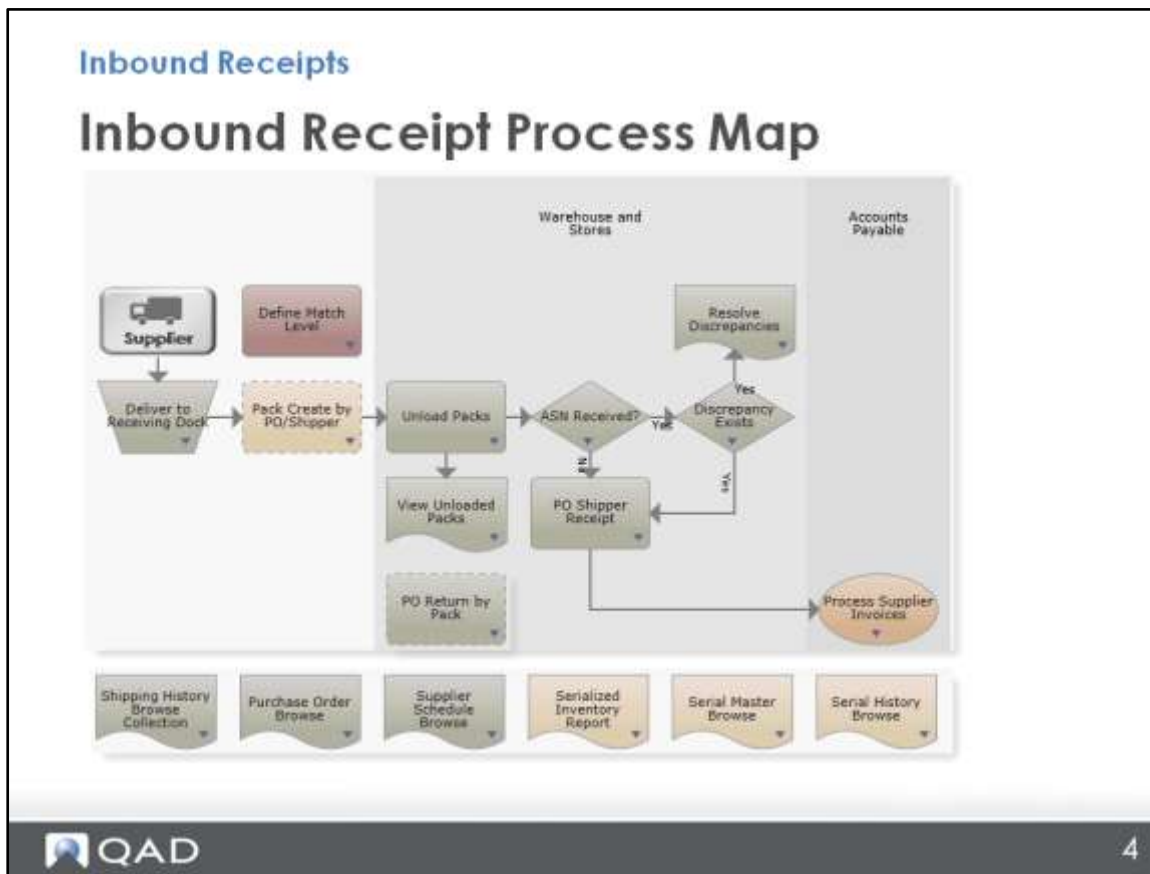
Overview

Inbound Receipts

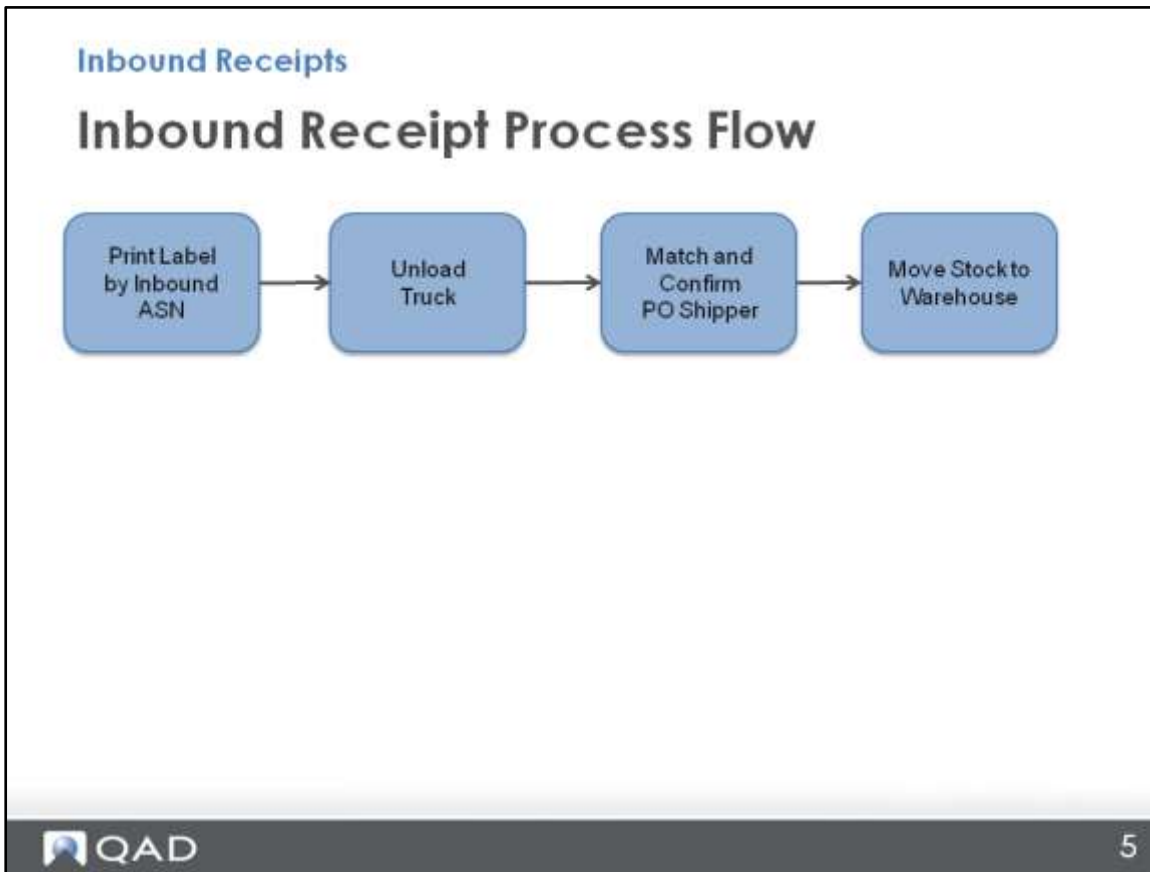
Overview

- Inbound Receipt Process Map
- Inbound Receipt Process Flow
- Inbound Receipt Process Example
- Match Levels
- Packaging Structures
- Serialization Receiving
- Direct Receipt
- ASN Receipt with Serialized Labels
- ASN Receipt Without Serialized Labels
- Return Goods to Supplier

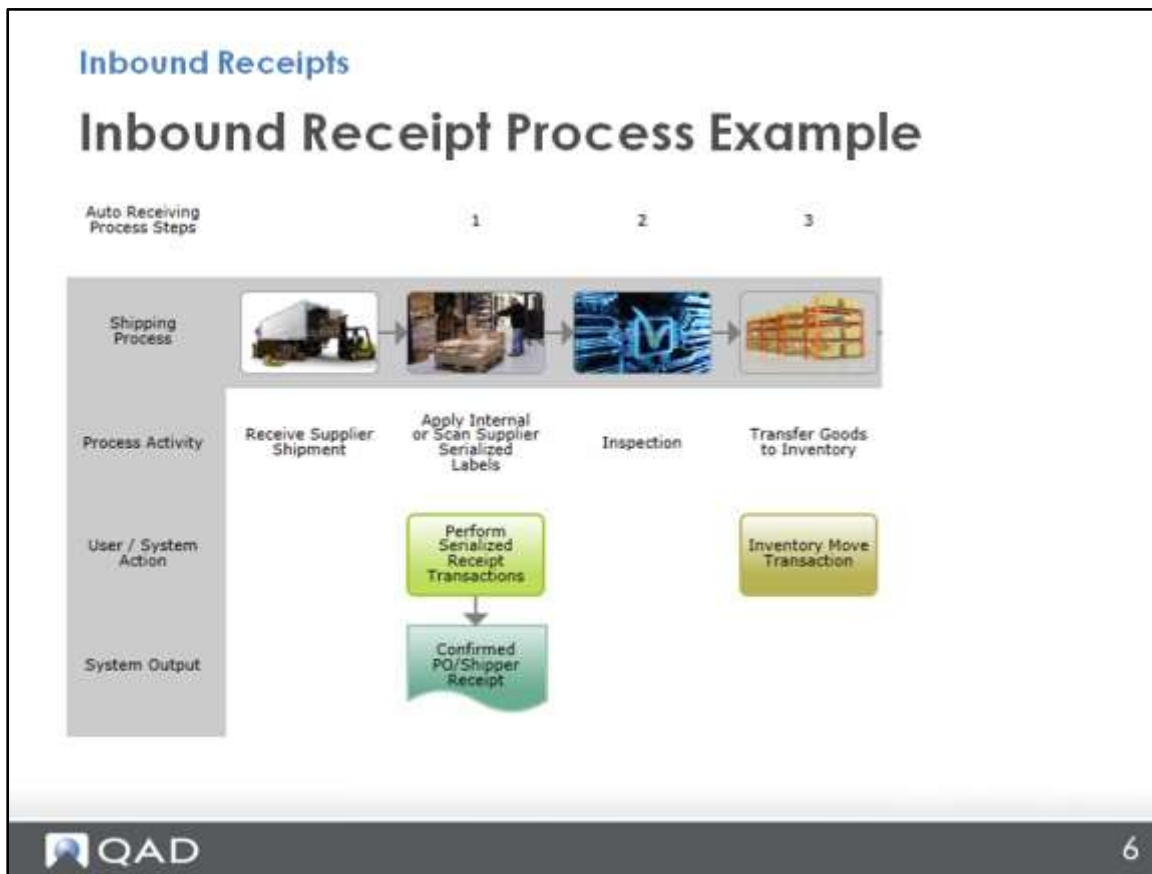
Inbound Receipt Process Map



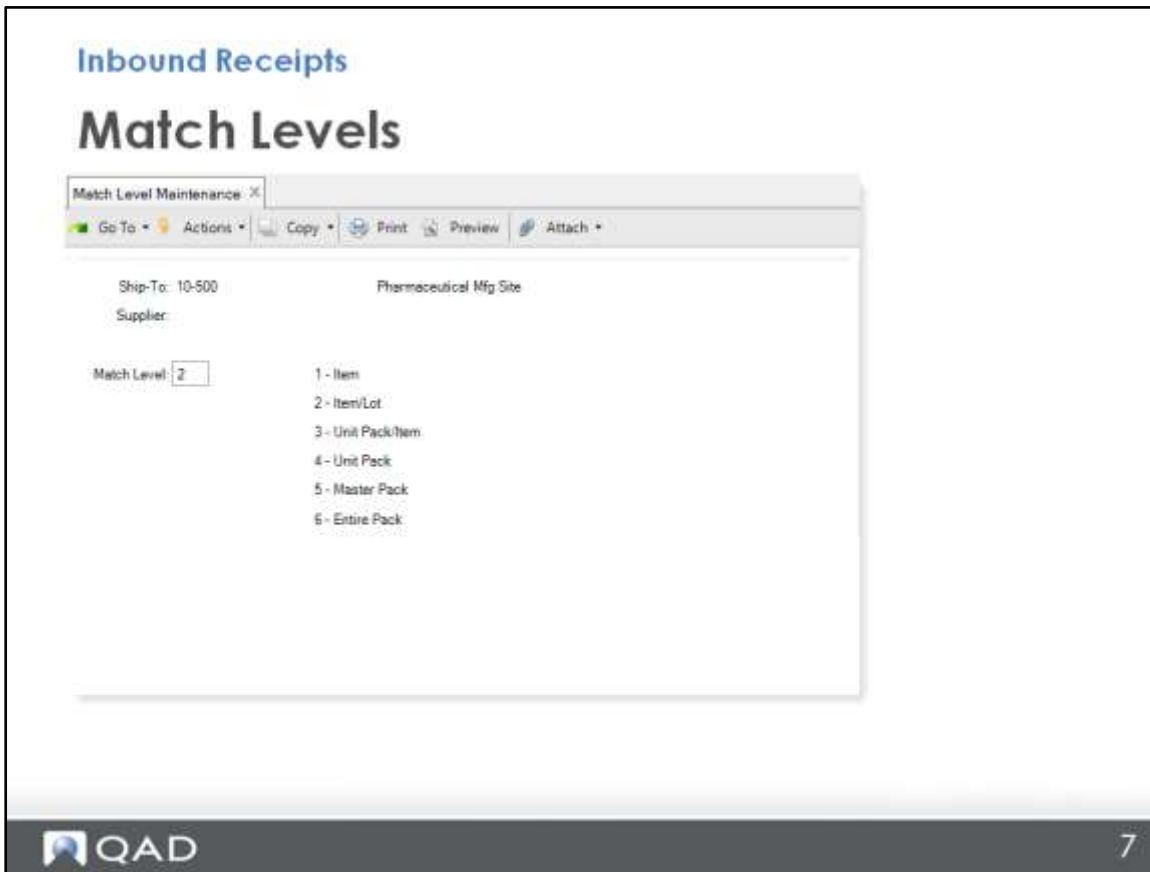
Inbound Receipt Process Flow



Inbound Receipt Process Example



Match Levels



Use Match Level Maintenance (5.13.12.1) to define a match level by supplier, ship-to, or their combination when receiving goods. You can set a default match level for shippers that come from a specific supplier and ship to a specific site.

The match level value determines the receiving level when unloading goods; for example, it dictates whether you only scan the master pack or scan each pack's serial ID during receipt. The system displays the default match level value when you match the actual unloading data with the ASN received.

Leave the Supplier field blank to define the match level for shippers that ship to a specific site, regardless of the supplier. Leave the Supplier and Ship-To fields blank to define a common match level for the login domain.

The system retrieves match levels by:

1. Ship-to, supplier
2. Ship-to
3. Supplier

Packaging Structures

Inbound Receipts

Packaging Structures

Packaging Structure Browse

Actions Setup Cancel Add to Favorites

Search (BOP Code => 90017)

Viewing 1 - 1 of 1 Records per page: 100

BOP Code	Description	Start Date	Margin	Level	Pack Code	Content	Quantity Per	UM	Serial Control
90017	0.00%	1		BX03	90017	100.0	EA	Mandatory	

Item Packaging Browse

Actions Setup Cancel Add to Favorites

Search (Item Number => 90017)

Viewing 1 - 1 of 1 Records per page: 100

Item Number	Site	Address	Transaction Type	BOP Code
90017	10-500			90017

Serial ID Range Browse

Actions Setup Cancel Add to Favorites

Search (Sequence ID => SN90017U)

Viewing 1 - 1 of 1 Records per page: 100

Sequence ID	Site	Address	Item/BOM Code	Pack Code	Internal	Qty	Quantity Available
SN90017U	10-500		90017		Yes	0	0

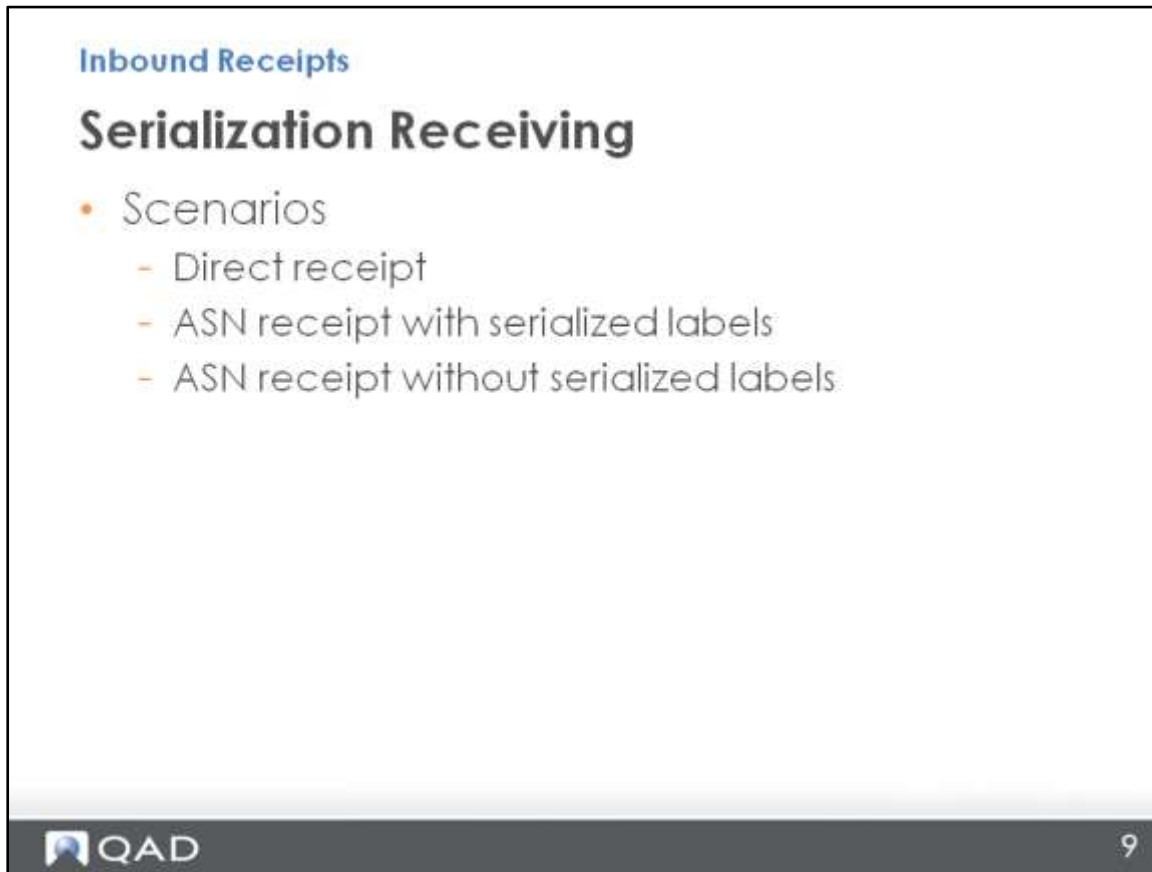
QAD 8

Set up packaging structures for the inbound receipt process.

For example, you purchase empty bottles (90017) from supplier 10S1002. You use boxes to pack the bottles and store the boxes in storage. Following these steps:

1. Create a pack code BX03, using Pack Code Maintenance.
2. Maintain a single-level packaging structure and the BOP code is 90017. One pack (BX03) can have 100 contents (90017).
3. Link the item 90017 and site 10-500 to BOP code 90017, using Item Packaging Maintenance.
4. Set up sequence ID SN90017U and link it to item 90017 and site 10-500.

Serialization Receiving



Inbound Receipts

Serialization Receiving

- Scenarios
 - Direct receipt
 - ASN receipt with serialized labels
 - ASN receipt without serialized labels

QAD 9

Typically, there are three serialization receiving scenarios:

- **Direct receipt:** The supplier does not provide serialization information for shipment. The company creates and applies serialized labels as the goods are received.
- **ASN receipt with serialized labels:** The supplier provides the ASN through EDI. The ASN includes serialization information such as the container ID and item-lot. The supplier also provides serialized product labels, which the company will scan during the unloading process and match at the pallet (container) level.
- **ASN receipt without serialized labels:** The supplier provides the ASN through EDI. The ASN includes item-lot info. The company creates and applies serialized labels to receive the goods, which the company will scan during the unloading process and match at the item/quantity level.

Direct Receipt

Inbound Receipts

Direct Receipt

- Receive Item
 - Company creates/applies serialized labels as goods are received
 - Match at level: Item/QTY
- Receipt process
 - Create a PO shipper
 - Unload goods
 - Print labels
 - Receive goods
 - Put away goods

 10

This use case involves receiving items from a supplier that you want to serialize and track as serialized inventory before consumption in the production process.

The supplier sends the goods and delivery notes to the company. The company performs the following process for receiving items:

1. Create a PO shipper to record the receiving item number, quantity, lot/serial number, and other data.
2. Unload the goods according to the pending PO shipper and generate pack serial IDs based on the defined packaging structures.
3. Print the serialized labels and apply the labels on the pack.
4. Match at item-quantity level, and, in case of discrepancies, use the PO Discrepancies Report to check the issue.
5. Confirm the receipts.
6. Move the serialized inventory to the inventory location.

Direct Receipt

The screenshot displays the 'PO Shipper Maintenance' window with the following details:

- Title:** Inbound Receipts Direct Receipt
- Supplier:** 10s1002
- Shipper ID:** SHP001
- Ship Date:** (blank)
- Bridgeville Industries:** 3390 Linco Road
- Ship-to ID:** 10-500
- Pharmaceutical Mfg Site:** (blank)
- Contents (Items):**
 - Item Number: 90017
 - Purchase Order: SRN001
 - Line: 1
 - Qty to Receive: 100.0
 - UM: EA
 - UM Conv: 1.0000
 - Site: 10-500
 - Location: 020
 - Lot/Serial: 90017-0915
 - Reference: (blank)
 - Supplier Lot: (blank)
 - Multi Entry:

The QAD logo is visible in the bottom left corner, and the page number '11' is in the bottom right corner.

Use PO Shipper Maintenance (5.13.14) to manually record item numbers, quantities, and lot numbers from formal shipping documents or supplier packing lists. You can also use PO Shipper Maintenance to receive consolidated packing lists.

For this scenario, you manually create a shipper in PO Shipper Maintenance. If you import an Advanced Ship Notice (ASN), the shipper is created automatically.

Direct Receipt

Inbound Receipts

Direct Receipt

Pending PO Shipper Unload X

Go To • Actions • Copy • Print • Preview • Attach •

Supplier: 10s1002 Bridgeville Industries

Shipper ID/Packing Slip: SHP001

Ship-to ID: 10-500 Location: 010

Parent Pack:

Serial ID:

Child Pack:

Serial ID: BX150915000001

Inventory Data:

Item Number: 90017 Bottle: 50 Size

Quantity: 100.0 EA

Printed:

Gen Item Serial:

Site: 10-500

Location: 010

Lot/Serial: 90017-0915

Reference:

Supplier Lot:

QAD 12

Use Pending PO Shipper Unload (5.13.12.13) to capture information from physically received goods by packing slip or by PO shipper ID, without confirming the receipt in inventory.

Note: It is possible for multiple users to unload at the same time for the same packing slip or PO shipper ID; however, only one user can confirm the shipper. The system displays an error when a user attempts to confirm the shipper and other users are unloading goods.

You can confirm the shipper using Pending PO Shipper Unload when the system successfully matches the supplier and ship-to as defined in Match Level Maintenance.

For this example, you use a single-level packaging for the bottle item 90017. The system generates the serial ID for the unit pack.

Direct Receipt

Print the labels for the packs based on the generated serial IDs. You can use Label Print by Serial ID (3.3.2) or Bulk Label Print (3.3.3) to print the labels.

Note: Make sure that you have installed the Label Printing Service module in the system. Otherwise, you cannot use the label printing programs and print the labels from the system.

Direct Receipt

Inbound Receipts

Direct Receipt

PO Shipper Receipt

Go To • Actions • Copy • Print • Preview • Attach •

Supplier: 10s1002 Bridgeville Industries
 Shipper ID: SHP001 3390 Linco Road

GL Effective Date: 9/15/2015

Match Level:

1 - Item
 2 - Item/Lot
 3 - Unit Pack/Item
 4 - Unit Pack
 5 - Master Pack
 6 - Entire Pack

Confirm to Receive?

QAD 14

Use PO Shipper Receipt (5.13.20) to receive items into inventory based on a supplier shipper. The receipt indicates that the supplier has fulfilled a commitment for the release by delivering materials, and updates the cumulative quantity.

For this scenario, you match packaging at item/lot and quantity level. The matching is successful if the item number of the unloaded goods and lot quantity of each PO line are consistent with the information in the shipper.

If you receive the goods at the inspection location first, after inspection you can use the Pack Transfer (3.17.7) function to move the serialized packs to another location.

Direct Receipt

Inbound Receipts
Direct Receipt

Serialized Inventory Report
10USA USD

Page 1 / 1
9/16/2015
10:55:33 AM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	010	90017 Bottle, 50 St e	90017-0915		100.00	100.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	BX 150915000001	BX03	Active	100.00	EA
Total				100.00	EA

End of Report

Search Criteria

Item Number	equals	90017
Site	equals	10-500
Location	equals	010
Display Item Serial ID	equals	No

QAD 15

Use Serialized Inventory Report (3.17.22.1) to view the received inventory. You can see the serial ID and stage, which is Active.

ASN Receipt with Serialized Labels

Inbound Receipts

ASN Receipt with Serialized Labels

- Receive Case/Item-Lot
 - The ASN provides Pallet, Case, Item-lot info
 - The supplier provides serialized pallet, box, and product labels, which the company scans during the unloading process
 - Match at level: Master Pack (Pallet/Container)
- Receipt process
 - Create a PO shipper
 - Unload goods
 - Match
 - Receive goods
 - Put away goods

In this scenario, the supplier sends the goods and Advanced Ship Notice (ASN) to the company. The company performs the following process for receiving the pack or case:

1. Import the ASN and generate the PO shipper to record the receiving pallet or container ID, item number, quantity, lot/serial number, and other data.
2. Unload the goods according to the pending PO shipper and scan the pallet or container serial ID.
3. Match at master pack level, and, in case of discrepancies, use the PO Discrepancies Report to check the issue.
4. Confirm the receipts.
5. Move the serialized inventory to the inventory location.

ASN Receipt with Serialized Labels

Inbound Receipts

ASN Receipt with Serialized Labels

PO Container Maintenance

Supplier: 10s1002
Container ID: PK1509150001

Ship-to ID: 10-500

Contents (Items)

Item Number: 90017
Purchase Order: SRN001 Line: 1

Qty to Receive: 100.0 UOM: EA

Site: 10-500
Location: 020
Lot/Serial: 90017-0916
Reference
Supplier Lot
Multi Entry:

PO Shipper Maintenance

Supplier: 10s1002 Ship Date: Bridgeville Industries
Shipper ID: SHP002 3390 Linco Road

Ship-to ID: 10-500 Pharmaceutical Mfg Site

Contents (Containers)

Container ID: PK1509150001 Container 001

QAD 17

After importing the ASN from the supplier, the system generates the PO container and PO shipper records, which include the container ID, item number, lot number, quantities, and other information.

ASN Receipt with Serialized Labels

Inbound Receipts

ASN Receipt with Serialized Labels

Pending PO Shipper Unload X

Go To Actions Copy Print Preview Attach

Supplier: 10s1002 Bridgeville Industries

Shipper ID/Packing Slip: SHP002

Ship-to ID: 10-500 Location: 030

Parent Pack

Serial ID:

Child Pack

Serial ID: PK1509160001

Inventory Data

Item Number: 90017 Bottle, 50 Size

Quantity: 100 EA

Printed:

Gen Item Serial:

Site: 10-500

Location: 030

Lot/Serial: 90017-0916

Reference:

Supplier Lot:

Scan the Serial ID from the pack label

QAD 18

Use Pending PO Shipper Unload to capture information for physically received goods by packing slip or by PO shipper ID, without confirming the receipt in inventory.

This example includes a single-level pack, so you scan the serial ID on the pack for the Child Pack serial ID field during the pending PO shipper unload process.

ASN Receipt with Serialized Labels

Inbound Receipts

ASN Receipt with Serialized Labels

PO Shipper Receipt x

Go To Actions Copy Print Preview Attach

Supplier: 10e1002 Bridgeville Industries
Shipper ID: SHP002 3390 Lince Road

GL Effective Date: 9/15/2015

Match Level: 5

1 - Item
2 - Item/Lot
3 - Unit Pack/Item
4 - Unit Pack
5 - Master Pack
6 - Entire Pack

Confirm to Receive?
Yes No

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	030	90017 Bottle, 50 Size	90017-0016		100.00	100.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	PK1509150001	BX03	Active	100.00	EA

QAD 19

When ASNs are in use, you can compare actual received goods information with the ASN. You can compare at the following levels:

- Item
- Item/lot
- Unit case
- Unit case/item
- Master pack
- Entire pack

In this scenario, the match level is master pack. The matching is successful if the master serial ID scanned during the unloading process is consistent with the one in the ASN (container ID).

If the matching is performed at this level, the consistency of the serial ID and quantity of the inner case is not validated. The system only considers the master pack level.

When you scan a master pack ID, the system assumes that, when a match is found in the ASN, all lower-level

packaging data and inventory data are correct and the unloading is considered to be without discrepancy.

ASN Receipt Without Serialized Labels

Inbound Receipts

ASN Receipt Without Serialized Labels

- Receive Item-Lot
 - The ASN provides Case, item-lot info
 - The company creates/applies serialized product labels, which they then scan during the unloading process
 - Match at level: Item/QTY
- Receipt process
 - Create a PO shipper
 - Print labels
 - Unload goods
 - Match
 - Receive goods
 - Put away goods


20

In this scenario, the supplier sends the goods and Advanced Ship Notice (ASN) to the company. However, the company wants to relabel the packs and the possible reasons are:

- The supplier does not provide serial IDs in the ASN.
- The ASN has the serial IDs but the format is not good.
- The method of receiving or labeling does not conform to your needs
- An alternative to this process is to create the labels and send them to the supplier, so that they can be applied before supplier shipment.

The company performs the following process for receiving the pack or case:

1. Import the ASN and generate the PO shipper to record the receiving pallet information, such as item number, quantity, lot/serial number.
2. Create the serial IDs and print labels for each PO shipper line according to expected receipts
3. Unload the goods according to the pending PO shipper and scan the pack serial IDs.

4. Match at the item-lot level, and, in case of discrepancies, use the PO Discrepancies Report to check the issue.
5. Confirm the receipts.
6. Move the serialized inventory to the inventory location.

ASN Receipt Without Serialized Labels

The screenshot displays the 'Inbound Receipts' section of the QAD system, specifically an 'ASN Receipt Without Serialized Labels'. The window title is 'PO Shipper Maintenance'. The interface includes a menu bar with options: 'Go To', 'Actions', 'Copy', 'Print', 'Preview', and 'Attach'. The main content area is divided into several sections:

- Supplier:** 10a1002
- Shipper ID:** SHP003
- Ship Date:** (empty)
- Bridgeville Industries:** 3390 Linco Road
- Ship-to ID:** 10-500
- Pharmaceutical Mfg Site:** (empty)
- Contents (Items):**
 - Item Number:** 90017
 - Purchase Order:** SRN001
 - Line:** 1
- Qty to Receive:** 100.0
- UM:** EA
- UM Conv:** 1.0000
- Site:** 10-500
- Location:** 020
- Lot/Serial:** 90017-0917
- Reference:** (empty)
- Supplier Lot:** (empty)
- Multi Entry:**

The QAD logo is visible in the bottom left corner, and the page number '21' is in the bottom right corner.

After importing the ASN from the supplier, the system generates the PO shipper records, which include item numbers, lot numbers, quantities, and other data.

ASN Receipt Without Serialized Labels

Inbound Receipts

ASN Receipt Without Serialized Labels

Pack Create by PO/Shipper

Go To Actions Copy Print Preview Attach

Supplier: 10s1002
 Shipper ID/Packing Slip: SHP003
 Purchase Order: SRN001
 Item: 90017
 Ship-To: 10-500

Line: 1
 Bottle, 50 Size
 Quantity: 100.0 EA

Receipt Data
 Lot/Serial: 90017-0917
 Reference:

Serial ID Sum

Serial ID Required:	1	Serial ID Used:	0
Serial ID Created:	0	Serial ID Open:	0

Print Label?

QAD 22

Use Pack Create by PO/Shipper (5.13.12.3) to create packs and print labels based on a PO or a PO shipper before you physically receive goods.

ASN Receipt Without Serialized Labels

The screenshot displays the 'Inbound Receipts' interface for 'ASN Receipt Without Serialized Labels'. The window title is 'Pending PO Shipper Unload'. The main form contains the following information:

- Supplier: 10s1002 Bridgeville Industries
- Shipper ID/Packing Slip: SHP003
- Ship-to ID: 10-500 Location: 020
- Parent Pack: Serial ID:
- Child Pack: Serial ID: BX150916000001
- Inventory Data:
 - Item Number: 90017 Bottle: 50 Size
 - Quantity: 0.0 EA
 - Printed
 - Gen Item Serial
 - Site: 10-500
 - Location: 020
 - Lot/Serial: 90017-0917
 - Reference:
 - Supplier Lot:

A 'Confirm to Receive?' dialog box is overlaid on the form, with 'Yes' and 'No' buttons. A red line points from the 'Serial ID: BX150916000001' field to the dialog box. To the right, a text box says 'Scan the Serial ID from the pack label'. Below the main form, a 'Match Level' dropdown menu is open, showing options: 1 - Item, 2 - Item/Lot, 3 - Unit Pack/Item, 4 - Unit Pack, 5 - Master Pack, and 6 - Entire Pack.

QAD 23

When the goods arrive, you apply the labels on the packs. Use Pending PO Shipper Unload to capture information on physically received goods by scanning the serial IDs on the packs.

Returning Goods to Supplier

Use Purchase Order Returns by Pack to return items to the supplier by pack.

In the Serial frame, enter the serial ID of a unit pack, assembly pack, or item to return.

When you enter an active assembly pack that holds different items, scan individual lower-level packs that are included. Make sure that all lower-level packs have been assigned to PO lines before you confirm the return transaction; otherwise, remove them from the assembly pack or remove the assembly pack.

When the pack to return is an active assembly pack and holds a single item, you can scan the serial ID to return the entire pack, but you can only assign it to a single PO line. When the pack to return is an active unit pack or aggregated on an active assembly pack, you can assign it to different PO lines.

You can enter an active serial ID of a unit pack, assembly pack, or item to return for the purchase order. You can enter PO line information and other return data in additional frames. You can optionally view the return quantities by lot detail.

The system changes the serial IDs to the Consumed stage after you confirm.

Review

Inbound Receipts


Review


- Inbound Receipt Process Map
- Inbound Receipt Process Flow
- Inbound Receipt Process Example
- Match Levels
- Packing Structures
- Serialization Receiving
- Direct Receipt
- ASN Receipt with Serialized Labels
- ASN Receipt Without Serialized Labels
- Returning Goods to Supplier

Exercise: Inbound Receipts

Inbound Receipts

Exercise: Inbound Receipts




26

Part 1

In this exercise, your company purchases item 70050 from supplier 10S1002. The supplier sends the goods and delivery notes to your company. However, your company wants to serialize and track the inventory before consumption in the production process. You will use pack BX03 to hold item 70050.

1. Use Packaging Structure Maintenance (13.14.4) to create or modify the packaging structure code. Use Packaging Structure Browse (13.14.25) to review or verify the packaging structure code that you have maintained.

BOP Code	70050
Pack Code	BX03
Content	70050
Quantity Per	1000

2. Use Item Packaging Maintenance (13.14.7) to create or modify the item packaging. Use Item Packaging Browse (13.14.8) to review or verify the item packaging that you have maintained.

Item/BOP Code	70050
Site	10-500
BOP Code	70050

- Use Purchase Order Maintenance (5.7) to maintain a purchase order to buy item 70050 from supplier 10S1002. Enter 10-500 as the order line site, 10000 for the quantity, and 0.01 for the unit cost. Write down the purchase order number here _____.
- Use PO Shipper Maintenance (5.13.14) to record item numbers, quantities, and lot numbers from shipping documents:

Shipper ID	1002-01
Ship-to ID	10-500
Qty to Receive	1000
Lot/Serial	70050-1116

- Use Pending PO Shipper Unload (5.13.12.13) to capture information on physically received goods by PO shipper ID, without confirming the receipt in inventory. Leave parent and child serial ID fields blank to let the system generate the serial IDs.

Shipper ID	1002-01
Ship-to ID	10-500
Quantity	1000
Lot/Serial	70050-1116
BOP Code	70050
Match Unload Data?	No
Confirm to Receive?	No

Use Serial Master Browse to review the created serial IDs and notice that the stages are Pending.

- Use Pending PO Shipper Unload Report (5.13.12.14) to review the Pending PO Shipper Unload information.
- Use PO Shipper Receipt (5.13.20) to receive items into inventory based on the shipper from the supplier. Select 2 (Item/Lot) for Match level. If matching is successful, use Serial Master Browse to review the created serial IDs and the stages now become Active. If there is a discrepancy, use the PO Discrepancies Report (5.13.12.15) to review it.
- Use the Serialized Inventory Report (3.17.22.1) to view the received inventory and notice the serial IDs and stages.

Part 2

In this exercise, your company purchases item 70050 from supplier 10S1002. The supplier sends the goods and Advanced Ship Notice (ASN) to your company. The ASN provides serialized pallet, box, and product

labels, which your company scans during the unloading process. Your company imports the ASN and the system generates the PO shipper records to record the pallet or container ID, item number, quantity, and lot/serial data. For this exercise, you create a PO container and PO shipper manually to simulate the ASN import.

1. Use PO Container Maintenance (5.13.13) to maintain a PO container that includes 1000 of item 70050. Use the purchase order number from the last exercise (Part 1).

Container ID	PK1511170001
Ship-to ID	10-500
Container item	90098
Qty to Receive	1
Purchase Order	(Step 3 in the last exercise)
Qty to Receive	1000
Lot/Serial	70050-1116

2. Use PO Shipper Maintenance (5.13.14) to record item numbers, quantities, and lot numbers from shipping documents:

Shipper ID	1002-02
Ship-to ID	10-500
Container ID	PK1511170001

3. Use Pending PO Shipper Unload (5.13.12.13) to capture information on physically received goods by PO shipper ID, without confirming the receipt in inventory. Leave the Parent Serial ID field blank and enter the child serial ID.

Shipper ID	1002-02
Ship-to ID	10-500
Child Pack Serial ID	PK1511170001
Item	70050
Quantity	1000
Lot/Serial	70050-1116
BOP Code	70050
Match Unload Data?	Yes
Match Level	5
Confirm to Receive?	No

Use Serial Master Browse to review the serial ID PK1511170001 and notice that its stage is Pending.

4. Use Pending PO Shipper Unload Report (5.13.12.14) to review the pending PO shipper unload information.
5. Use PO Shipper Receipt (5.13.20) to receive items into inventory based on the shipper from the supplier. Select 5 (Master Pack) for the Match Level.
6. Use Serialized Inventory Report (3.17.22.1) to view the received inventory and notice the serial IDs and stages.

Part 3

In this exercise, your company purchases item 70050 from supplier 10S1002. The supplier sends the goods and Advanced Ship Notice (ASN) to your company. The ASN provides serialized pallet, box, and product labels, but for some reason your company wants to relabel the pack. Your company imports the ASN and the system generates the PO shipper records. For this exercise, create a PO container and PO shipper manually to simulate the ASN import.

1. Use PO Container Maintenance to maintain a PO container that includes 1000 of item 70050. Use the purchase order number from the Part 1 exercise.

Container ID	PK1511170002
Ship-to ID	10-500
Container item	90098
Qty to Receive	1
Purchase Order	(Step 3 of the last exercise)
Qty to Receive	1000
Lot/Serial	70050-1116

2. Use PO Shipper Maintenance to record item numbers, quantities, and lot numbers from shipping documents:

Shipper ID	1002-03
Ship-to ID	10-500
Container ID	PK1511170002

3. Use Pack Create by PO/Shipper (5.13.12.3) to create a pack of BX03.

Shipper ID	1002-03
Purchase Order	(Step 3 of the last exercise)
Ship-to ID	10-500
Lot/Serial	70050-1116
Create by P or B?	Pack Code
Pack code	BX03

Number	1
--------	---

Use Serial Master Browse to review the created serial ID. Notice that the stage is New.

- Use Pending PO Shipper Unload to capture information of physically received goods by PO shipper ID without confirming the receipt in inventory. Leave the Parent Serial ID field blank and enter the child serial ID.

Shipper ID	1002-03
Ship-to ID	10-500
Child Pack Serial ID	(serial ID from the last step)
Quantity	1000
Lot/Serial	70050-1116
BOP Code	70050
Match Unload Data?	Yes
Match Level	2
Confirm to Receive?	Yes

Use Serial Master Browse to review the serial ID and notice that the stage is Active.

- Use Serialized Inventory Report (3.17.22.1) to view the received inventory and notice the serial ID and stage.
- Use PO Shipper Maintenance (5.13.14) to record item numbers, quantities, and lot numbers from shipping documents:

Shipper ID	1002-04
Ship-to ID	10-500
Qty to Receive	5000
Lot/Serial	70050-1117

- Use Pending PO Shipper Unload (5.13.12.13) to capture information on physically received goods by PO shipper ID without confirming the receipt in inventory. Leave the parent and child serial ID fields blank to let the system generate the serial IDs.

Shipper ID	1002-04
Ship-to ID	10-500
Quantity	5000
Lot/Serial	70050-1118
BOP Code	70050

Match Unload Data?	Yes
--------------------	-----

The system displays this message "Discrepancy exist, print report." Click Yes to see the discrepancy. Click No when prompted to confirm to receive.

8. Use Pending PO Shipper Unload (5.13.12.13) to modify the lot/serial to 70050-1117 and confirm the receipt.

CHAPTER 6

Discrete Production

Discrete Production

Serialization



Our Passion. Your Advantage.

Discrete Production

Discrete Production

Discrete Production

In this section, you will learn how to:

Identify key business considerations before setting up Serialization in QAD Enterprise Applications

Set up Serialization in QAD Enterprise Applications

- **Process Serialization in QAD Enterprise Applications**

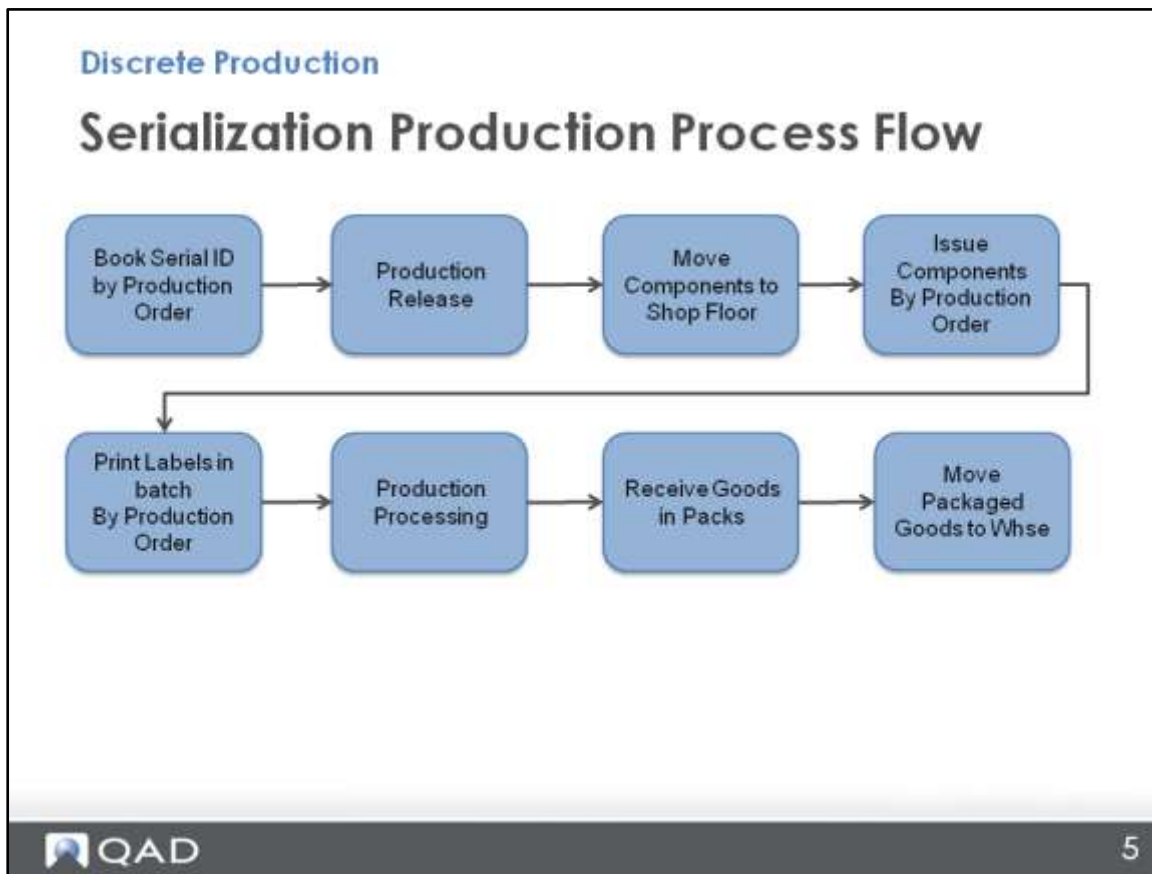
Overview

Discrete Production

Overview

- Discrete Production Process Map
- Serialization Production Process Flow
- Serialization Production Process Example
- Work Order Serial Booking
- Production Process
- Work Order Release/Print
- WO Component Issue by Pack
- Pack Create by WO
- Pack Receipt by WO
- WO Receipt Backflush by Pack
- WO Component Return by Pack
- WO Receipt Correction by Pack

Serialization Production Process Flow



Serialization Production Process Example



Work Order Serial Booking

Discrete Production

Work Order Serial Booking

- Reserve serial numbers for use on a specific work order before production process.
- Serial numbers are not associated with the item, lot, or pack code yet.
- Serial numbers may be already associated with a specific sales order line.

Use Work Order Serial Booking (16.15.1) to reserve serial IDs for a discrete work order. The reserved serial numbers are not associated with the item, lot/serial number, or pack code yet. The serial numbers may be already associated with a specific sales order line.

Work Order Serial Booking

Discrete Production

Work Order Serial Booking

Work Order: 1000 ID: 2409814
 Item Number: 05002
 Site: 10-500
 Production Line: Pills, 50 Tab
 BOMFormula Code:
 Quantity Ordered: 24.0 EA

Booking Data
 Serial ID Required: 5
 Serial ID Booked: 0

Serial ID Used: 0
 Serial ID Open: 0

Serial Range ID: SN502U
 Number: 5
 Last Used: P502QM1504000000001

QAD 8

The system calculates the fields in the Booking Data frame, including the number of serial IDs required for this WO. The number is calculated based on the quantity ordered and the serial hierarchy definition, including components that are determined by BOM explosion logic. The system also displays the number of serial IDs associated with this WO.

The system determines the default serial ID and number range by:

- Determining the BOP code from item packaging records based on Item (BOM), Site, Address (Blank), and Transaction Type (RCT-WO).

If an alternate BOM is used, the system still follows the matching logic described in Item Packaging Maintenance, but the BOM code gets higher priority than the item.

- Combining the BOP code and BOM code to determine the serial hierarchy definition. Components are determined by WO BOM explosion logic.

If all levels in the serial hierarchy definition use the same serial range ID, then the Serial Range ID field is display only and the default value of the Number field is serial ID required - serial ID booked. Other fields are editable. When calculating serial ID required, the system skips phantom items and serial IDs are calculated for its components.

- Displaying the serial range ID used at the lowest serialized level when the serial range ID is different; the default number is 0.

Work Order Serial Booking

The screenshot displays the 'Work Order Browse' window in QAD. The main table shows a single record for Work Order ID '1000'. A context menu is open over this record, with 'Reserved Serial ID' selected. Below the main table, a sub-table shows the booked serial IDs for this work order. The sub-table has columns for Serial ID, Pack Code, Stage, Item Number, Description, Site, Location, LotSerial, Reference, Create Date, and Work Order. The 'Stage' column for all entries is 'Booked', and the 'Work Order' column is '1000'.

Serial ID	Pack Code	Stage	Item Number	Description	Site	Location	LotSerial	Reference	Create Date	Work Order
P502QM15380000000...		Booked	10-500		10-500				9/24/2015	1000
P502QM15380000000...		Booked	10-500		10-500				9/24/2015	1000
P502QM15380000000...		Booked	10-500		10-500				9/24/2015	1000
P502QM15380000000...		Booked	10-500		10-500				9/24/2015	1000


View the booked serial IDs in Work Order Browse by right-clicking the work order ID and choosing Reserved Serial ID from the drop-down menu.

The stages of the serial IDs are Booked.

Work Order Serial Booking

Discrete Production

Work Order Serial Booking



Serial Booking By WO Report

10USA USD


Page 1 / 1
8/24/2015
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Work Order	ID	Item	UM	Site	Prod Line	Qty Ordered	Serial ID Required	Serial ID Booked	Serial ID Used	Serial ID Open
1000	2400814	05002	EA	10-500		24.00	5	5	0	5

Level	Serial ID	Stage	Pack Code	Lot/Serial	Reference	Avail Pack Qty	UM
1	P502QM1539000000001	Booked				0.00	
1	P502QM1539000000002	Booked				0.00	
1	P502QM1539000000003	Booked				0.00	
1	P502QM1539000000004	Booked				0.00	
1	P502QM1539000000005	Booked				0.00	

Nbr of Ser IDs with Stage Booked	5
Number of All Serial IDs	5

End of Report


10

View booked serial IDs in Serial Booking by WO Report.

Work Order Serial Booking

Discrete Production

Work Order Serial Booking

Work Order: 1001 ID: 2409815
 Item Number: 05002 Site: 10-500
 Production Line: BOMFormula Code: Quantity Ordered: 24.0 EA

Booking Data
 Serial ID Required: Sales Order: 10510039
 Serial ID Booked: Line: 1

Reserved Serial ID

Serial ID	Pack Code	Stage	Item Number	Description	Site	Location	Work Order	Linked Order	Lot/Serial
P502QM15390000000		Booked	10-500		1001		1001	10510039	
P502QM15390000000		Booked	10-500		1001		1001	10510039	
P502QM15390000000		Booked	10-500		1001		1001	10510039	
P502QM15390000000		Booked	10-500		1001		1001	10510039	
P502QM15390000000		Booked	10-500		1001		1001	10510039	

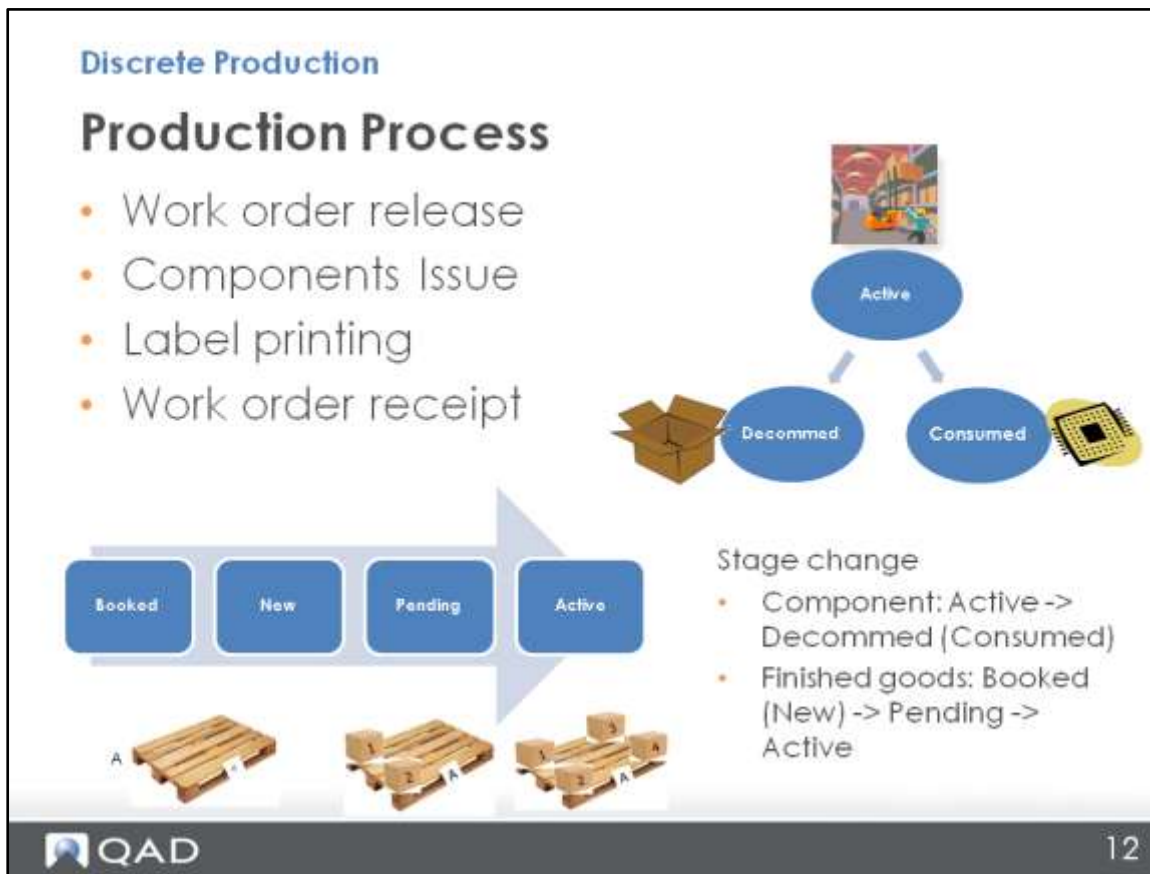
QAD 11

When you use Work Order Serial Booking to reserve serial IDs for a work order, you can optionally enter a sales order line. In this way, you associate the current work order with the specified sales order. Serial IDs that are already booked for the specified sales order line can be assigned to and associated with the current work order. All serial bookings for the current work order come from bookings for the specified sales order line.

In the Number field, enter the number of serial IDs that you want to assign to the current work order. Make sure that the entered number is no greater than the booked serial IDs that are open for the linked sales order line. When the open quantity of booked serial IDs is not enough, you can use SO/RMA Serial Booking to reserve more serial IDs for the sales order line.

You can view the linked sales order number in the Reserved Serial ID frame of Work Order Browse.

Production Process



Production process steps:

1. Work order release: Print the suggested number of packs to pick for components
2. Issue components: Unit pack, assembly pack, item, non-serialized loose inventory
3. Print labels: Print before production to facilitate the work order receipt process
4. Work order receipt: Generate serial IDs and scan serial IDs for unit packs, assembly packs, or items

Stage change:

- Component: From Active to Decommed (Consumed)
- Finished goods: From Booked (New) to Pending, and finally to Active

Work Order Release/Print

Discrete Production

Work Order Release/Print

- Displays the proposed packaging units in picklist for information only
- Triggers an outbound QDoc to export a complete list of all booked serial IDs of the work order.



Serialized Inventory Report
10USA USD

Page 1 / 1
9/25/2015
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Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Qty	UM
10-500	020	70050 Pils	70050-0024		2,000.00	2,000.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	70050-0002	PL04	Active	2.00	BX
2	70050-0001	BX02	Aggregated	1,000.00	EA
2	70050-0003	BX02	Aggregated	1,000.00	EA
Total				2,000.00	EA


The Work Order Release/Print (16.30) function prints the work order component picklist, which displays the proposed packaging unit information for reference only. In addition, the function triggers an outbound QDoc to export a complete list of all booked serial IDs for the work order.

To display the proposed packaging unit information in the picklist, make sure that serialized inventory for the components exist.

Work Order Release/Print

Discrete Production

Work Order Release/Print



Work Order Release/Print
10USA USD

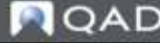
Page 1 / 4
9/25/2015
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Work Order Picklist

Work Order: 1000	Issue Date: 9/24/2015
ID: 2409814	Batch: Rev
Item Number: 05002	Due Date: 9/24/2015
Pills, 50 Tab	
Remarks	Sales/Job
Qty Ordered: 24.0	Deliver To
EA	Site: 10-500

Item Number	Rev	Site Location	Lot/Serial Ref	Required Qty to Issue	UM	Issued By
70050		10-500		1,200.0	EA	
Pills		020	70050-0924	1,200.0		()
		12/24/2015				

Pack Code	Number
BX02	1
Item	200


14

In this example, the work order requires 1200 of component item 70050 in total. There is a pallet PL04 in the inventory, which has two boxes, BX02, and each box has 1000 of item 70050. The system suggests picking one box, BX02, plus 200 additional items.

WO Component Issue by Pack

Discrete Production

WO Component Issue by Pack

- Issue unit packs, assembly packs, items, and non-serialized loose inventory
- Issue a unit pack partially
- Changes the stage of item serial ID to Consumed
- Keeps the lot/serial and reference information and record WO information
- If all contents of pack are issued, changes the stage to Decommed
- Figures out the operation automatically
- Supports substitute item



15

Use WO Component Issue by Pack (16.15.13) to issue work order components by pack. You can identify the work order and the packs to issue, issue full packs or part of a pack, and issue non-serialized loose items with this function.

The system changes the stages of issued item serial IDs to Consumed, keeps the lot/serial and reference information, and records the work order information. If all contents of the pack are issued, the system changes the pack stage to Decommed. The system figures out the operation if you leave it blank and also supports the substitute item.

When you use the QAD EE Work Order Component Issue, the system displays an error message when the items are serialized or contained in a pack. Use WO Component Issue by Pack to issue the items.

WO Component Issue by Pack

Discrete Production

WO Component Issue by Pack

WO Component Issue by Pack

Go To Actions Copy Print Preview Attach

Work Order: 1000 ID: 2409814 **OP** Effective: 9/27/2015
 Item Number: 06002 Status: R
 Cancel B/O: Document:

Serial ID:

Stage: Aggregated

Pack still aggregated to 70050-0002, remove it?

Inventory Data

Item Number: 70050

Quantity In Pack: 1,000.0 EA Site: 10-500
 Issue Quantity: EA Location: 000
 Printed: Lot/Serial: 70050-0924
 Reference:

Scan the Serial ID from the pack label

Issue partially

QAD 16

You can scan the serial ID from the pack or enter the serial ID manually. You can enter the issue quantity and partially issue the components from the pack. Otherwise, the entire pack is issued.

When you leave the OP field blank and a component is in use in one or multiple operations, the system automatically picks the operation in ascending order. When all component requirements are met, the system maintains the remaining quantity on blank operations, as long as the operation is in the work order bill.

WO Component Issue by Pack

Discrete Production

WO Component Issue by Pack

Serialized Inventory Report

10USA USD

Page 1 / 1
9/25/2015
3:18:40 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	020	70050 Pills	70050-0924		2,000.00	2,000.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	70050-0002	PL04	Active	2.00	BK
.2	70050-0001	BX02	Aggregated	1,000.00	EA
.2	70050-0003	BX02	Aggregated	1,000.00	EA
Total				2,000.00	EA

Discrete Production

WO Component Issue by Pack

Serialized Inventory Report

10USA USD

Page 1 / 1
9/28/2015
2:25:34 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	020	70050 Pills	70050-0924		800.00	800.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	70050-0003	BX02	Active	800.00	EA
Total				800.00	EA

In this example, before work order component issue, there is a pallet in inventory that has two boxes and each box has 1000 of item 70050. The component issue process issues one box plus 200 of item 70050. After the component issue process, another box only has 800 of item 70050 left.

Questions? Visit community.qad.com

WO Component Issue by Pack

Discrete Production

WO Component Issue by Pack

Serial Master Browse

Search (Serial ID => 70050-)

Viewing 1 - 13 of 13 Records per page: 100

Serial ID	Stage	Pack Code	Master Pack St	Site	Locs	Item Number	Quantity in Pack	Lot/Serial
70050-0001	Decommed	BX02	Decommed				0.0	
70050-0002	Decommed	PL04	Decommed				0.0	
70050-0003	Active	BX02	Active	10-500	020	70050	800.0	70050-0024

Serial History Browse

Search (Order => 1000)

Viewing 1 - 2 of 2 Records per page: 100

Serial Hist Nb	Serial Hist Type	Serial ID	Pack Code	Site	Location	Item	Transaction Type	Transaction	Quantity Change
34	PCK-ISS	70050-0003	BX02	10-500	020	70050	ISS-IWO	746766	-200.0
35	PCK-ISS	70050-0001	BX02	10-500	020	70050	ISS-IWO	746766	-1,000.0

Transactions by Order Browse

Search (Order = 1000)

Viewing 1 - 3 of 3 Records per page: 100

Order	Item Number	Site	Tran Nbr	Loc Qty Change	Date	Effective Date	Transaction Type	Description
1000	70050	10-500	746766	-1,200.0	9/27/2015	9/27/2015	ISS-IWO	Pile

QAD 18

The WO Component Issue by Pack changes the stage of the item serial ID to Consumed, but keeps the lot/serial, and reference data of the item, and records work order information. If all contents of the pack are issued, the system changes the stage to Decommed.

The WO component issue by pack creates the serial transaction history and links it to the inventory transaction history. The serial history type is PCK-ISS. You can use the transaction number to inquire on the detailed issue transaction information in Transactions Detail Inquiry.

WO Component Issue by Pack

Discrete Production

WO Component Issue by Pack

WO Component Issue by Pack X

Go To Actions Copy Print Preview Attach

Work Order: 1002 ID: 2409820 OP: Effective: 9/28/2015
 Item Number: 05002 Status: R
 Cancel B/O Document:

Serial ID: P502QM1540000000016
 Stage: Active

Inventory Data

Item Number: 90019

Quantity In Pack: 10.0 EA Site: 10-500
 Issue Quantity: 10.00000000 EA Location: 010
 Printed Lot/Serial: 90019-0001
 Reference:

Parent Item	Item Number	Substitute Item	Substitute Qty	Remarks
05002	90017	90019	1.0	

Supports substitute item

QAD 19

When a substitute item is issued, the system decreases the requirement for the preferred component. If one item is a predefined substitute for multiple components, the system automatically picks components based on the operation that you enter.

WO Component Issue by Pack

Discrete Production

WO Component Issue by Pack

WO Component Issue by Pack X

Go To Actions Copy Print Preview Attach

Work Order: 1002 ID: 2409820 OP: Effective: 9/28/2015
Item Number: 05002 Status: R
Cancel B/O Document:

Serial ID: Leave serial ID blank

Stage:

Inventory Data

Item Number: 90040 Issue non-serialized loose inventory

Quantity In Pack: 0.0 EA
Issue Quantity: 10.0 EA
Printed

Site: 10-500
Location: 020
Lot/Serial
Reference:

QAD 20

If you leave the Serial ID field blank, it means that you want to issue non-serialized loose items. The system displays the Inventory Data frame and you can enter the loose item number, issue quantity, site, location, lot/serial, and reference data.

Pack Create by WO

Discrete Production

Pack Create by WO

- Define item, lot, ref, pack code, and standard pack qty before WO receipt process
- Print serial IDs before receipt
- Create serial IDs and link to work order
- Update serial IDs if the WO has booked serial IDs already

Use Pack Create by WO (16.15.2) to create packs and print labels based on work orders.

The system upgrades serial IDs booked for the work order to assign pack code and standard pack quantity. When the work order is linked with a sales order line, you cannot create packs for it in this function; you can only upgrade booked serial IDs.

Note: Use Pack Create by WO to create packs and print labels for PO subcontract lines by creating packs for the corresponding discrete WO.

Pack Create by WO

Discrete Production

Pack Create by WO

Pack Create by WO X

Go To Actions Copy Print Preview Attach

Work Order: 1000 ID: 2409814
 Item Number: 05002 Pils, 50 Tab
 Site: 10-500 BOM/Formula Code:
 Production Line Quantity Ordered: 24.0 EA

Receipt Data
 Lot/Serial: 05002-0929
 Reference:

Serial ID Summary

Serial ID Required:	5	Serial ID Used:	0
Serial ID Booked:	5	Serial ID Open:	5

Pack Data

Pack Code: BXD1 Carton Box (10x10x10 In)
 Number of Packs: 4
 Pack Quantity: 6.0 EA

Default to the unit pack. Leave blank to create item serial IDs.

QAD 22

When no booked serial IDs are associated with the current work order, the system creates new packs according to the pack information in the Pack Data frame.

When serial IDs are already booked for the work order, the system assigns pack information to booked serial IDs first, and updates the booked serial IDs to new serial IDs. If booked serial IDs are fewer than the specified packs and the work order is not linked to a sales order, the system also creates new packs using the pack data.

Enter the pack code for which the system assigns booked serial IDs or creates serial IDs. The default is from the lowest-level serialized pack of the BOP structure that is determined by item (BOM), site, address (blank), and transaction type (RCT-WO). When the Pack Code field is blank, the system considers the serialization type to be item serialization. In this situation, the system ignores the pack quantity and UM.

Pack Create by WO

The screenshot displays two windows from the QAD Discrete Production system. The top window, titled "Work Order Browse", shows a search for "1000" and a table with the following data:

Item Number	Item Description	Work Order	ID	Quantity Ordered	Site	Status	Order Date	Release Date
05002	Pills, 50 Tab	1000	2409614	24.0	10-500	R	9/24/2015	9/24/2015

The bottom window, titled "Reserved Serial ID", shows a table with the following data:

Serial ID	Pack Code	Stage	Item Number	Description	Site	Location	Work Order	Lot/Serial
P502QM15390000000001	PL01	New	05002	Pills, 50 Tab	10-500		1000	05002-0929
P502QM15390000000002	EX01	New	05002	Pills, 50 Tab	10-500		1000	05002-0929
P502QM15390000000003	EX01	New	05002	Pills, 50 Tab	10-500		1000	05002-0929
P502QM15390000000004	EX01	New	05002	Pills, 50 Tab	10-500		1000	05002-0929
P502QM15390000000005	PL01	New	05002	Pills, 50 Tab	10-500		1000	05002-0929

Red boxes in the bottom table highlight the "Pack Code", "Stage", and "Lot/Serial" columns for each row.

View the reserved serial IDs in Work Order Browse by right-clicking the work order ID and choosing Reserved Serial ID from the drop-down menu.

The stage of the serial IDs is New and the pack code and lot/serial are assigned to the work order.

Pack Create by WO

Discrete Production

Pack Create by WO

Work Order	ID	Item	UM	Site	Prod Line	Qty Ordered	Serial ID Required	Serial ID Booked	Serial ID Used	Serial ID Open
1000	2409814	05002	EA	10-500		24.00	5	5	0	5

Level	Serial ID	Stage	Pack Code	Lot/Serial	Reference	Avail Pack Qty	UM
1	P502QM1539000000001	Booked				0.00	
1	P502QM1539000000002	Booked				0.00	
1	P502QM1539000000003	Booked				0.00	
1	P502QM1539000000004	Booked				0.00	
1	P502QM1539000000005	Booked				0.00	

Nbr of Ser IDs with Stage Booked			5
Number of All Serial IDs			5


End of Report

Work Order	ID	Item	UM	Site	Prod Line	Qty Ordered	Serial ID Required	Serial ID Booked	Serial ID Used	Serial ID Open
1000	2409814	05002	EA	10-500		24.00	5	5	0	5

Level	Serial ID	Stage	Pack Code	Lot/Serial	Reference	Avail Pack Qty	UM
1	P502QM1539000000001	New	BX01	05002-0929		0.00	EA
1	P502QM1539000000002	New	BX01	05002-0929		0.00	EA
1	P502QM1539000000003	New	BX01	05002-0929		0.00	EA
1	P502QM1539000000004	New	BX01	05002-0929		0.00	EA
1	P502QM1539000000005	New	PL01	05002-0929		0.00	BX

Nbr of Ser IDs with Stage New			5
Number of All Serial IDs			5

End of Report


24

View the serial ID stage in Serial Booking by WO Report. You can see that the system changes the stage from Booked to New and associates the pack codes with the serial IDs.

Pack Receipt by WO

Discrete Production

Pack Receipt by WO

- Receive items, unit packs, and assembly packs
- Generate serial IDs during receiving by the system
- Create serial IDs beforehand and create the pack structure manually
- The serial stage is Pending before receipt confirmation and becomes Active after receipt confirmation
- Support QDoc Inbound to import serial structures from an external system



25

Use Pack Receipt by WO (16.15.3) to:

- Receive goods by pack or receive loose serialized items using Serialization logic.
- Build the pack by scanning serial IDs.
- Create packs by batch.

You can create new unit packs, and then load inventory to the new unit pack. You can also create new unit packs and new assembly packs, and then build the unit packs on the assembly pack. You can then load the inventory into the unit pack and load the unit packs into the assembly pack. Finally, you can use this program to build lower-level packs on an existing parent pack.

You can select to generate the serial IDs during the receiving process. You can also create the serial IDs beforehand and create the pack structure manually.

The serial ID stage is Pending before the receipt confirmation and becomes Active after receipt confirmation.

The system supports the QDoc Inbound to import the serial structure from an external system.

Pack Receipt by WO

Discrete Production

Pack Receipt by WO

- Pack receipt scenarios
 - Scan serial IDs of the full packaging structure.
 - Generate assembly packs and/or unit packs.
 - Generate item serial IDs to receive serialized items.
 - Scan item serial IDs of the full pack structure to receive serialized items.
 - Scan item serial IDs to receive loose items.

Pack Receipt by WO

Discrete Production

Pack Receipt by WO

Pack Receipt by WO X

Go To Actions Copy Print Preview Attach

Work Order: 1000 ID: 2409814 Effective: 9/28/2015
 Item Number: 05002 Description: Pita, 50 Tab
 Site: 10-500 Open Quantity: 24.0 EA
 Location: 050

Gen Pack Serial:

Build Pallet?

Automatic Lot Numbers:
 Work Order Status: R

Master Pack
 Serial ID: P502QM1539000000005

Unit Pack
 Serial ID: P502QM1539000000001

Receive all pending packs for this WO, quantity: 24.07

Inventory Data
 Quantity: EA
 Site: 10-500
 Location: 050
 Lot/Serial: 05002-0929
 Reference:

Gen Item Ser:
 Printed:

QAD 27


Scenario 1: Scan serial IDs of the full packaging structure.

If the serial IDs have been created, printed, and applied to the packs of finished goods, clear the Gen Pack Serial field and scan the serial IDs from the pack labels for master and unit pack fields. Build the pallet and confirm the receipt.

Pack Receipt by WO

Discrete Production

Pack Receipt by WO



Serialized Inventory Report


10USA USD

Page 1 / 1
9/29/2015
3:01:51 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	050	05002 Pkt, 50 Tab	05002-0929		24.00	24.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1539000000005	PL01	Active	4.00	EA
2	P502QM1539000000001	EX01	Aggregated	6.00	EA
2	P502QM1539000000002	EX01	Aggregated	6.00	EA
2	P502QM1539000000003	EX01	Aggregated	6.00	EA
2	P502QM1539000000004	EX01	Aggregated	6.00	EA
Total				24.00	EA

End of Report


28

After you complete the receipt, you can view the inventory serialization information in Serialized Inventory Report.

Pack Receipt by WO

Discrete Production

Pack Receipt by WO

Pack Receipt by WO: X

Go To Actions Copy Print Preview Attach

Work Order: 1003 ID: 2409821 Effective: 9/29/2015

Item Number: 05002 Description: Pills, 50 Tab Open Quantity: 24.0 EA

Site: 10-500 Location: 050 Automatic Lot Numbers: Work Order Status: R

Gen Pack Serial

Build Pallet?

Yes No

Master Pack: _____

Serial ID: _____

Receive all pending packs for this WO, quantity: 24.0?

Yes No

Pack Code: 0X01

Std Pack Qty: 6.0 EA

Nbr of Full Packs: 4

Qty in Partial Pack: 0.0 EA

Receipt Quantity: 24.0 EA

Site: 10-500

Location: 050

Lot/Serial: _____

Reference: _____

Gen Item Ser:

QAD 29

Scenario 2: Generate assembly packs and/or unit packs.

If serial IDs have not been created for the receipt of finished goods, select the Gen Pack Serial field, choose the appropriate pack code, and enter the number of packs to receive. Build pallets but choose No when prompted to receive all pending packs.

If you answer No to the Build Pallet prompt, the system only generates serial IDs for unit packs.

If the work order has already booked serial IDs, the system uses them.

Pack Receipt by WO

Discrete Production

Pack Receipt by WO

Work Order Browse

Search (Work Order = 1003)

Viewing 1 - 1 of 1

Item Number	Item Description	Work Order	WO ID	Production Line	Site	Status	Quantity Ordered	Order Date	Release Date
0902	Pills, 50 Tab	1003	090201	10-001	R		24.0	9/29/2019	9/29/2019

Master Serial ID

Viewing 1 - 1 of 5

Serial ID	Pack Code	Item Number	Description	Total Inventory	UM	Work Order	Site	Location	Lot/Serial	Parent Serial ID
P502QM1540000000019	P501	0902	Pills, 50 Tab	24.0	EA	1003	10-000	060	05002-0929	

View Downstream Pack

Viewing 1 - 4 of 4

Serial ID	Pack Code	Item Number	Item Description	Lot/Serial	Reference	Quantity In Pack	UM	Parent Serial ID
P502QM1540000000019	BX01	0902	Pills, 50 Tab	05002-0929		6.0	EA	P502QM1540000000019
P502QM1540000000020	BX01	0902	Pills, 50 Tab	05002-0929		6.0	EA	P502QM1540000000019
P502QM1540000000021	BX01	0902	Pills, 50 Tab	05002-0929		6.0	EA	P502QM1540000000019
P502QM1540000000022	BX01	0902	Pills, 50 Tab	05002-0929		6.0	EA	P502QM1540000000019

QAD 30

If the receipt has not been confirmed, you can view pending serial IDs in Work Order Browse by right-clicking the work order ID and choosing Master Serial ID from the drop-down menu. You can view downstream content by right-clicking the serial ID and choosing View Downstream Pack from the drop-down menu.

Pack Receipt by WO

Discrete Production

Pack Receipt by WO

Serial Booking By WO Report

10USA USD

Page 1 / 1
0/29/2015
5:28:54 PM

Work Order	ID	Item	UM	Site	Prod Line	Qty Ordered	Serial ID Required	Serial ID Booked	Serial ID Used	Serial ID Open
1003	2409821	05002	EA	10-500		24.00	5	0	0	0

Level	Serial ID	Stage	Pack Code	Lot/Serial	Reference	Aval Pack Qty	UM
1	P502QM1540000000019	Pending	PL01	05002-0929		4.00	BX
2	P502QM1540000000018	Aggregated	BX01	05002-0929		6.00	EA
2	P502QM1540000000020	Aggregated	BX01	05002-0929		6.00	EA
2	P502QM1540000000021	Aggregated	BX01	05002-0929		6.00	EA
2	P502QM1540000000022	Aggregated	BX01	05002-0929		6.00	EA

Nbr of Ser IDs with Stage Pending	5
Number of All Serial IDs	5

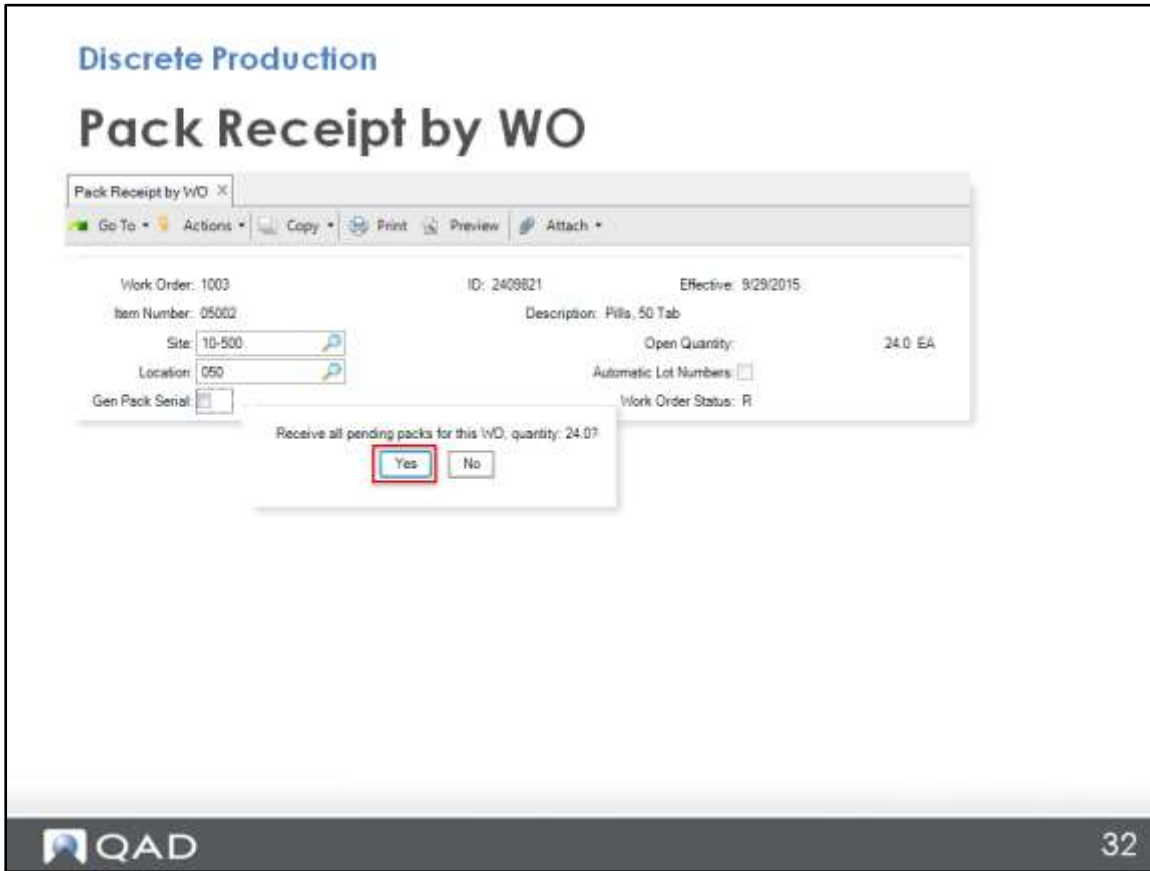
End of Report

31

Use Serial Booking by WO Report to view the serial information of received packs.

In this scenario, the pack has been built, but the stage of the assembly pack is Pending.

Pack Receipt by WO



Use Pack Receipt by WO to confirm the receipt after the inventory serialization information has been verified and everything is correct. The system changes the stage of the assembly pack to Active.

Pack Receipt by WO

Discrete Production

Pack Receipt by WO

Pack Receipt by WO X

Go To Actions Copy Print Preview Attach

Work Order: 1008 ID: 2409828 Effective: 10/8/2015
 Item Number: 05002 Description: Pills, 50 Tab
 Site: 10-500 Open Quantity: 6.0 EA
 Location: 050 Build Pallet? Yes No
 Automatic Lot Numbers: Work Order Status: R

Gen Pack Serial:

Pack Code: Site: 10-500
 Std Pack Qty: 1.0 EA Location: 050
 Nbr of Full Packs: 6 Lot/Serial: 05002-101
 Qty in Partial Pack: 0.0 EA Reference:
 Receipt Quantity: 6.0 EA Gen Item Ser:

Item Inventory Data Maintenance X
 Go To Actions Copy

Item Number: 05002
 Unit of Measure: EA

Item Inventory Data
 Serial Control: Mandatory
 Lot Control: L
 Site: 10-500

Leave pack code blank

QAD 33

Scenario 3: Generate item serial IDs to receive serialized items.


If the item that you want to receive has the Mandatory Serial Control attribute, you can generate item serial IDs by selecting the Gen Pack Serial field, leaving the Pack Code field blank, and selecting the Gen Item Serial field.

In this case, enter the received quantities in the Number of Full Packs field for the serialized item.

Pack Receipt by WO

Discrete Production

Pack Receipt by WO



Serialized Inventory Report

10USA USD

Page 1 / 1
10/8/2015
4:38:43 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	050	05002 Pills, 50 Tab	05002-1011		6.00	0.00	6.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM154100000024		Active	1.00	EA
1	P502QM154100000025		Active	1.00	EA
1	P502QM154100000026		Active	1.00	EA
1	P502QM154100000027		Active	1.00	EA
1	P502QM154100000028		Active	1.00	EA
1	P502QM154100000029		Active	1.00	EA
Total				6.00	EA

End of Report

Pack Receipt by WO

Discrete Production

Pack Receipt by WO

Pack Receipt by WO X

Go To Actions Copy Print Preview Attach

Work Order: 1009 ID: 2409829 Effective: 10/8/2015
 Item Number: 05002 Description: Pills, 50 Tab
 Site: 10-500 Open Quantity: 5.0 EA
 Location: 050 Build Pallet? Yes No
 Automatic Lot Numbers: Work Order Status: R

Master Pack
 Serial ID: P502QM1541000000031

Unit Pack	Serial ID	Quantity
Serial ID: P502QM1541000000030		0.0

Inventory Data
 Quantity: 5.0 EA Site: 10-500
 Location: 050 Lot/Serial: 05002-1012
 Reference:

Gen Pack Serial: Gen Item Ser: Printed:

Scan serial IDs of the full packaging structure.

QAD 35

Scenario 4: Scan item serial IDs of the full pack structure to receive serialized items.

If the item that you receive has the Mandatory Serial Control attribute and item serial IDs have been generated beforehand, you can scan the item serial IDs by clearing both the Gen Pack Serial field and the Gen Item Serial field.

Pack Receipt by WO

Discrete Production

Pack Receipt by WO

Pack Receipt by WO: X

Go To Actions Copy Print Preview Attach

Work Order: 1010 ID: 2409830 Effective: 10/8/2015
 Item Number: 05002 Description: Pills, 50 Tab
 Site: 10-500 Open Quantity: 6.0 EA
 Location: 050 Build Pallet? Yes No
 Gen Pack Serial Automatic Lot Numbers: Work Order Status: R
 Create Pack? Yes No
 Unit Pack: Serial ID:
 Inventory Data: Quantity: 6.0 EA Site: 10-500
 Gen Item Ser Location: 050
 Printed Lot/Serial: 05002-1013
 Serial ID Quantity
 P502QM1541000000040 1.0
 Scan loose item serial ID

QAD 36

Scenario 5: Scan serial IDs to receive loose items.

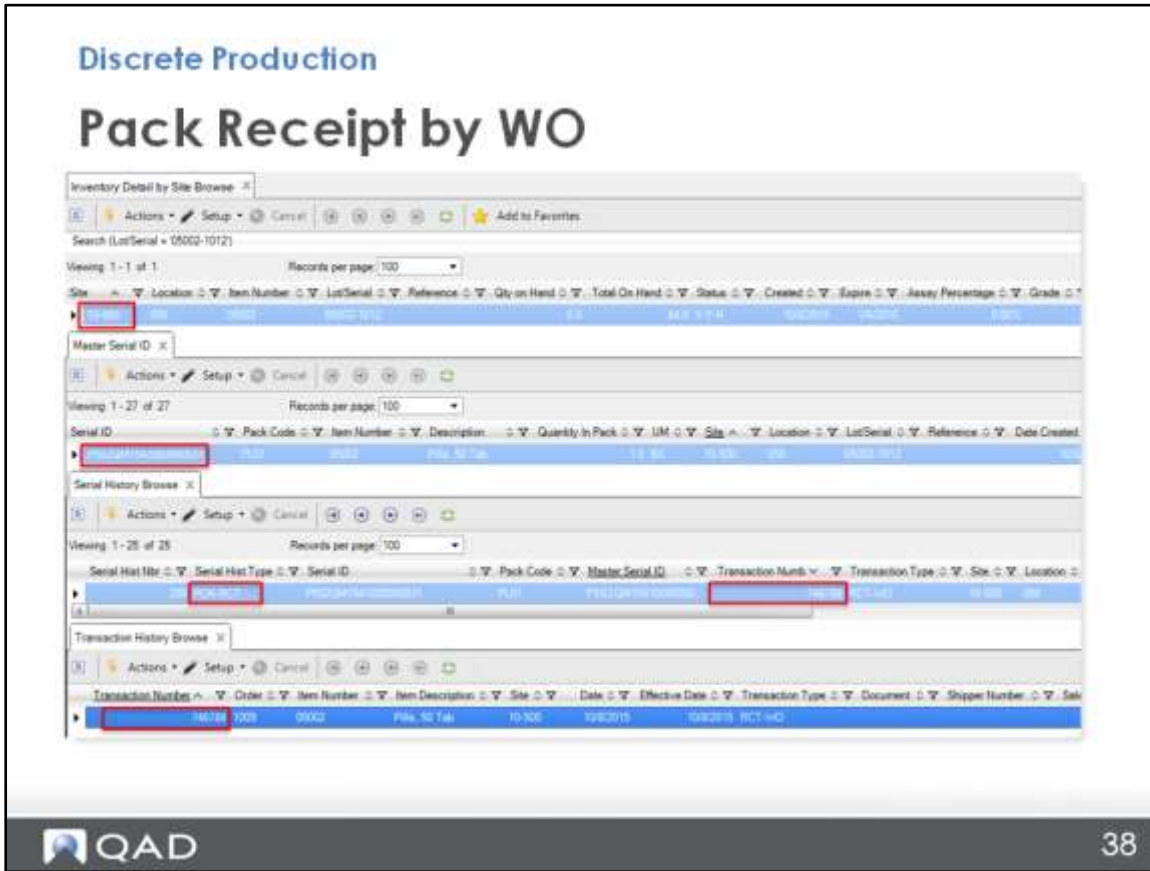
You can receive loose items by scanning the serial IDs of the loose items. In this case, clear both the Gen Pack Serial field and the Generate Item Serial field and choose No when prompted to create packs.

Pack Receipt by WO

View the Active serial IDs in Inventory Detail by Site Browse by right-clicking the site code and choosing Master Serial ID from the drop-down menu. Alternatively, you can view the IDs in Serial Booking by WO Report.

The item serial ID is always linked to the work order. However, the pack serial ID is not linked to the work order any longer.

Pack Receipt by WO



View serial history in Inventory Detail by Site Browse by right-clicking the site code and choosing Master Serial ID from the drop-down menu. Then, right-click the serial ID and choose Serial History Browse from the drop-down menu.

The system creates the PCK-RCT serial history transaction and links it to the inventory transaction history.

WO Receipt Backflush by Pack

Discrete Production

WO Receipt Backflush by Pack

- Performs component issue and product receipt in one transaction
- Provides the same functionality with Pack Receipt by WO
- Component issue happens when the receipt is confirmed
- Issue unit packs, assembly packs, serialized items, or non-serialized loose inventory



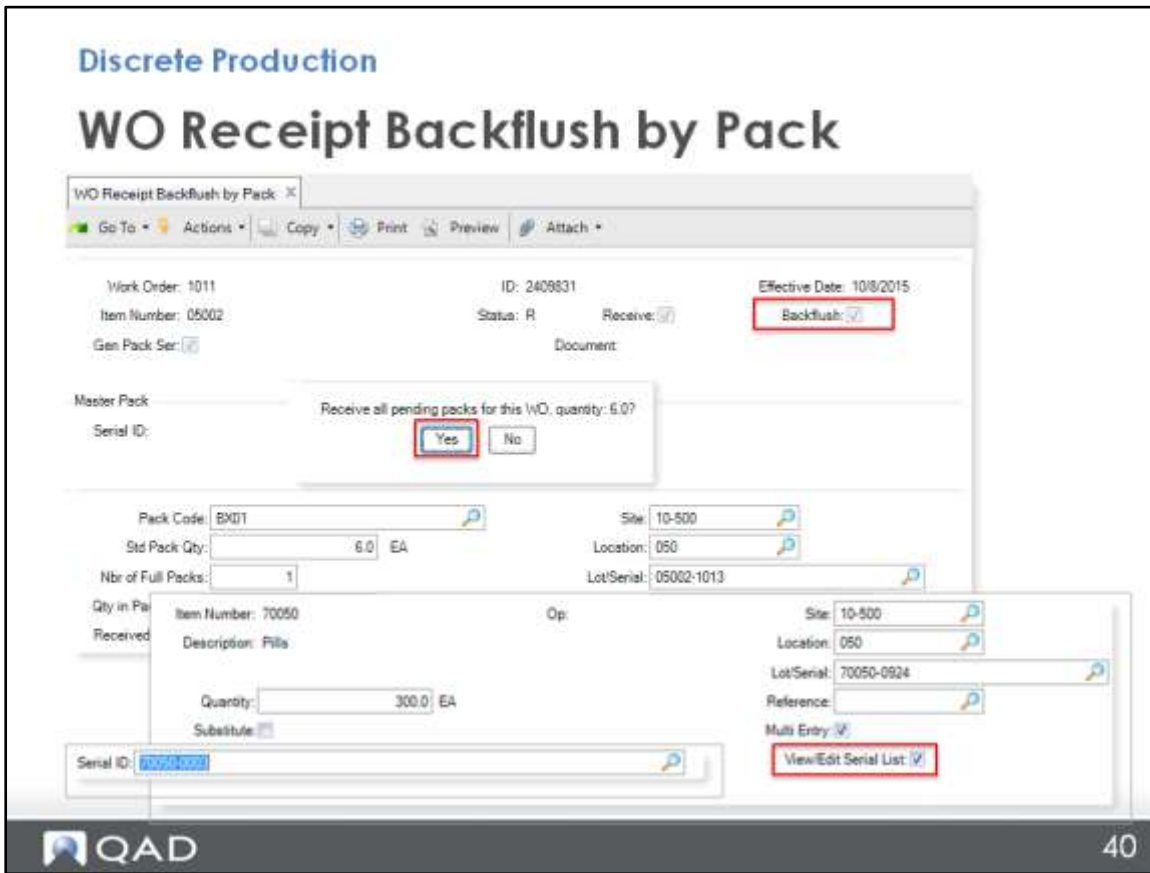
39

Use WO Receipt Backflush by Pack (16.5.5) to receive finished goods and issue WO components by pack. You can receive completed products and backflush to issue the items used by the pack. You use this program instead of the QAD EE function Work Order Receipt Backflush when:

- You have serialized finished products to receive and backflush and you set Receive to Yes.
- You have non-serialized finished products with serialized components or components in a pack to receive and backflush and you set Backflush to Yes.

You can create new unit packs, and then load inventory to the new unit pack. You can also create new unit packs and new assembly packs, and then build the unit packs on the assembly packs. You can then load the inventory into the unit packs and load the unit packs into the assembly packs. Finally, you can use this program to build lower-level packs on an existing parent pack.

WO Receipt Backflush by Pack



When you select the Backflush option, the system issues the components after the receipt is confirmed. Issuing non-serialized loose inventory is just like the standard transaction.

WO Receipt Backflush by Pack

Discrete Production

WO Receipt Backflush by Pack

WO Receipt Backflush by Pack

Go To Actions Copy Print Preview Attach

Work Order: 1011 ID: 2409831 Effective Date: 10/8/2015
Item Number: 05002 Status: R Receive: Backflush:
Gen Pack Ser: Document

Item Number: 90040 Op: Site: 10-500
Description: Label Location: 020
150,000 Labels Per Roll Lot/Serial:
Quantity: 60 EA Reference:
Substitute: Multi Entry:
Document: View/Edit Serial List

QAD 41

Select the View/Edit Serial List field to issue unit packs, assembly packs, or item serial IDs.

WO Component Return by Pack

Discrete Production

WO Component Return by Pack

- Reverse of WO Component Issue by Pack
- Return an item serial ID.
 - Change stage from Consumed to Active. The item serial ID must be issued by the work order
- Return a unit pack.
 - Change stage from Decommed or New to Active
- Return non-serialized loose inventory

Use WO Component Return by Pack (16.15.14) to receive components back to stock that were previously issued. In general, the components are received back in decommissioned pack IDs.

If you return an item serial ID, make sure that the item serial ID has been issued by the work order. The system changes its stage from Consumed to Active.

If you return a unit pack, the system changes its stage from Decommed or New to Active.

You can return both loose serialized items and loose non-serialized items.

WO Component Return by Pack

Discrete Production

WO Component Return by Pack

WO Component Return by Pack

Go To Actions Copy Print Preview Attach

Work Order: 1011	ID: 2409831	Op:	Effective: 10/8/2015
Item Number: 05002	Work Order Status: R	Document:	
Pills, 50 Tab			

Unit Pack

Serial ID: 70050-0003			
Stage: Decommed	Qty in Pack:	0.0	

Inventory Date

Item Serial ID:	
Item Number: 70050	Site: 10-500
Quantity: <input type="text" value="100.0"/> EA	Location: 050
	Lot/Serial: 70050-0924
Printed: <input type="checkbox"/>	Reference:

43

Specify a pack serial ID. Make sure that its stage is New or Decommissioned. When new, make sure that the serial ID is for a unit pack. When blank, you can enter item serial IDs for loose serialized items, or enter the item number and quantity for loose non-serialized items.

WO Component Return by Pack

The screenshot displays the 'Discrete Production' interface for 'WO Component Return by Pack'. It features two instances of a 'Serial Master Browse' window. The top window shows a search for Serial ID 70050-0003 with a 'Decommit' status. The bottom window shows the same search with an 'Active' status. A red box highlights the 'Stage' column in both tables.

Discrete Production
WO Component Return by Pack

Serial Master Browse X

Actions Setup Cancel Add to Favorites

Search (Serial ID = 70050-0003)

Serial ID equals 70050-0003 Search Clear All

Viewing 1 - 1 of 1 Records per page 100

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Site	Location	Item Number	Description	LotSerial
70050-0003	Decommit	BXD	70050-0003	Decommit					

Serial Master Browse X

Actions Setup Cancel Add to Favorites

Search (Serial ID = 70050-0003)

Serial ID equals 70050-0003 Search Clear All

Viewing 1 - 1 of 1 Records per page 100

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Site	Location	Item Number	Description	LotSerial
70050-0003	Active	BXD	70050-0003	Active	10-500	050	70050	FRS	70050-0504

QAD 44

WO Component Return by Pack

Discrete Production

WO Component Return by Pack

WO Component Return by Pack x

Go To → Actions → Copy → Print → Preview → Attach →

Work Order: 1011 ID: 2409831 Op: Effective: 10/8/2015
 Item Number: 05002 Work Order Status: R
 Pills, 50 Tab Document:

Unit Pack

Serial ID:	Stage:	Qty in Pack:	
		0.0	

Inventory Date

Item Serial ID:

Item Number: 90040
 Quantity: 2.0 EA Site: 10-500
 Location: 020
 Lot/Serial:
 Reference:

Printed:

Leave blank to return non-serialized loose inventory

QAD 45

If you leave the unit pack Serial ID field and the Item Serial ID field blank, you can return non-serialized loose inventory with this program.

WO Receipt Correction by Pack

Discrete Production

WO Receipt Correction by Pack

- Reverse of Pack Receipt by WO
- Return unit packs, assembly packs, item serial IDs, and non-serialized loose inventory
- All serialized items must be received by work order
- Return packs fully or partially
- Reverse receipts may not exceed total previous receipts
- Change item serial stage from Active to New
- Change pack stage from Active to Decommed



46

Use WO Receipt Correction by Pack (16.15.6) to reverse WO receipts by pack. You identify the work order and the packs to return. You can return full packs, part of a pack, or return non-serialized loose items.

When you use WO Receipt Correction by Pack to return a serialized pack or item:

- If the serial ID was not only received, but also booked for the current work order, the system keeps the link between the serial ID and the work order.
- If the serial ID was received for the current work order, but not booked for it, the system removes the link between the serial ID and the work order.
- If the serial ID was not received for the current work order (with negative quantity), the system removes the link between the serial ID and the work order for which it was received.

Note: When you use Pack Receipt by WO later to receive the serial ID for the original work order again, the system displays an error message.

Reverse receipts may not exceed total previous receipts.

For all packs, when you return all content, the system changes the stage to Decommed.

WO Receipt Correction by Pack

Discrete Production

WO Receipt Correction by Pack

WO Receipt Correction by Pack x

Go To Actions Copy Print Preview Attach

Work Order: 1000 ID: 2409814 Effective Date: 10/9/2015
 Item Number: 05002 Description: Pills, 50 Tab
 Quantity Completed: 24.0 EA Status: R

Serial ID: P502QM153900000001
 Stage:

Serial Master Browse x

Actions Setup Cancel Add to Favorites

Search (Serial ID = P502QM1539000000001)

Serial ID equals P502QM153900000 Search Clear All

Viewing 1 - 1 of 1 Records per page: 100

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Site	Location	Item Number	Lot/Serial
P502QM1539000000001	Decommed	IS01	P502QM1539000000001	Decommed				

QAD 47

If you return a unit pack, the system changes the pack stage to Decommed.

WO Receipt Correction by Pack

Discrete Production

WO Receipt Correction by Pack

Page 1 / 1
10/9/2015
2:55:59 PM

Serialized Inventory Report

10USA USD

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	050	05002 Pills, 50 Tab	05002-0929		24.00	24.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1539000000005	PL01	Active	4.00	BX
2	P502QM1539000000001	BX01	Aggregated	6.00	EA
2	P502QM1539000000002	BX01	Aggregated	6.00	EA
2	P502QM1539000000003	BX01	Aggregated	6.00	EA
2	P502QM1539000000004	BX01	Aggregated	6.00	EA
Total				24.00	EA

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	050	05002 Pills, 50 Tab	05002-0929		18.00	18.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1539000000005	PL01	Active	3.00	BX
2	P502QM1539000000002	BX01	Aggregated	6.00	EA
2	P502QM1539000000003	BX01	Aggregated	6.00	EA
2	P502QM1539000000004	BX01	Aggregated	6.00	EA
Total				18.00	EA

48

WO Receipt Correction by Pack

Discrete Production

WO Receipt Correction by Pack

Serial Master Browse

Search (Serial ID = PS02QM1539000000001)

Viewing 1 of 1 Records per page: 100

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Site	Location	Item Number	Lot/Serial
PS02QM1539000000001	Decommit	SNY	PS02QM1539000000001	Decommit				

Serial History Browse

Viewing 1 of 9 Records per page: 100

Serial Hist Nbr	Serial Hist Type	Serial ID	Pack Code	Quantity Change	Stage	Transaction Number	Transaction Type
PCK-RCT		PS02QM1539000000001	SNY	1	Decommit	967	RCT-WO

Transaction History Browse

Transaction Number	Order	Item Number	Item Description	Site	Date	Effective Date	Transaction Type	Document
74678	1000	05002	Ply, 30 Tals	10-500	10/9/2015	10/9/2015	RCT-WO	

QAD 49

View serial history in Serial Master Browse by right-clicking the master serial ID and choosing Serial History Browse from the drop-down menu.

The PCK-RCT serial transaction is created and is linked with inventory history.

WO Receipt Correction by Pack

The screenshot displays the 'Discrete Production' interface for 'WO Receipt Correction by Pack'. The main window shows work order details: Work Order: 1012, ID: 2408832, Effective Date: 10/9/2015, Item Number: 05002, Description: Pills, 50 Tab, Quantity Completed: 4.0 EA, and Status: R. A dialog box prompts: 'Pack still aggregated to P502QM1541000000056, remove it?' with 'Serial ID: P502QM1541000000057' and 'Stage: Aggregated'. The 'Yes' button is highlighted. Below is the 'Serial Master Browse' window with a search for 'P502QM1541000000057'. The search results table is as follows:

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Site	Location	Item Number	Lot/Serial
P502QM1541000000057	New		P502QM1541000000057	New	10-500	050	05002	05002-1015

If you return a serialized item that is in a pack, the system prompts you to remove it from its parent. If you choose Yes, the system removes the item and changes the item's serial stage to New.

WO Receipt Correction by Pack

Discrete Production

WO Receipt Correction by Pack

Serialized Inventory Report

10USA USD

Page 1 / 1
10/9/2015
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Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM																																																
10-500	050	05002 Pills, 50 Tab	05002-1015		4.00	4.00	0.00	EA																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lv</th> <th>Serial ID</th> <th>Pack Code</th> <th>Stage</th> <th>Avail Pack Qty</th> <th>UM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P502QM1541000000061</td> <td>PL01</td> <td>Active</td> <td>1.00</td> <td>BX</td> </tr> <tr> <td>2</td> <td>P502QM1541000000056</td> <td>BX01</td> <td>Aggregated</td> <td>4.00</td> <td>EA</td> </tr> <tr> <td>3</td> <td>P502QM1541000000057</td> <td></td> <td>Aggregated</td> <td>1.00</td> <td>EA</td> </tr> <tr> <td>3</td> <td>P502QM1541000000058</td> <td></td> <td>Aggregated</td> <td>1.00</td> <td>EA</td> </tr> <tr> <td>3</td> <td>P502QM1541000000059</td> <td></td> <td>Aggregated</td> <td>1.00</td> <td>EA</td> </tr> <tr> <td>3</td> <td>P502QM1541000000060</td> <td></td> <td>Aggregated</td> <td>1.00</td> <td>EA</td> </tr> <tr> <td colspan="4" style="text-align: right;">Total</td> <td>4.00</td> <td>EA</td> </tr> </tbody> </table>									Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM	1	P502QM1541000000061	PL01	Active	1.00	BX	2	P502QM1541000000056	BX01	Aggregated	4.00	EA	3	P502QM1541000000057		Aggregated	1.00	EA	3	P502QM1541000000058		Aggregated	1.00	EA	3	P502QM1541000000059		Aggregated	1.00	EA	3	P502QM1541000000060		Aggregated	1.00	EA	Total				4.00	EA
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3	P502QM1541000000060		Aggregated	1.00	EA																																																			
Total				4.00	EA																																																			

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM																																										
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3	P502QM1541000000060		Aggregated	1.00	EA																																													
Total				3.00	EA																																													

51

Review

Discrete Production

Review

- Discrete Production Process Flow
- Serialization Production Process Flow
- Work Order Serial Booking
- Production Process
- Work Order Release/Print
- WO Component Issue by Pack
- Pack Create by WO
- Pack Receipt by WO
- WO Receipt Backflush by Pack
- WO Component Return by Pack
- WO Receipt Correction by Pack

Exercise: Discrete Production

Discrete Production

Exercise: Discrete Production




53

Part 1

In this exercise, you practice creating a work order and booking serial IDs for this work order. Also, you practice creating a sales order and reserving serial IDs for the sales order. Then, you practice creating a new work order and linking it with the reserved serial IDs for the sales order.

1. In Site Maintenance (1.1.13), set the Use Plan/Sched Workbenches field to No for site 10-500.
2. Use Work Order Maintenance (16.1) to create a work order for item 05002 in site 10-500 and the quantity is 24. Use Work Order Browse (16.2) to review the created work order. Write down the work order number here _____.
3. Use Work Order Serial Booking (16.15.1) to reserve serial IDs for the work order that you created in last step. The system books five serial IDs for the work order.
4. Use Work Order Browse to view the reserved serial IDs for the work order and their stages. Use Serial Booking by WO Report (16.15.26) to view the reserved serial IDs for the work order and their stages. Notice that the stages are Booked but no pack code and lot/serial data is associated yet.
5. Use Sales Order Maintenance (7.1.1) to create a sales order for customer 10C1002. Write down the sales order number here _____.

Site	10-500
Item	05002
Quantity	24

- Use SO/RMA Serial Booking (7.1.20) to reserve serial IDs for the sales order that you created in the last step.
- Use Work Order Maintenance (16.1) to create a work order for item 05002 in site 10-500 and the quantity is 24. Use Work Order Browse (16.2) to review the created work order. Write down the work order number here _____.
- Use Work Order Serial Booking (16.15.1) to reserve serial IDs for the work order that you created in the last step. Select the sales order and line that you created in Step 5.
- Use Work Order Browse to view the reserved serial IDs for the work order and their stages. Notice that the stages are Booked and the serial IDs are linked to the sales order.

Part 2

In this exercise, you practice releasing the work order that you created in the Part 1 exercise, issuing the components by pack, and creating packs for the work order receipt. Also, you practice receiving the work order by pack.

- Use Serialized Inventory Report to review the available component items of 70050. Write down the serial IDs here _____.
- Use Work Order Release/Print (16.30) to release the work order that you created in the Part 1 exercise and print out the picklist. Notice the proposed packaging unit information for the component item 70050 in the picklist: 1 BX03 plus 200 items.
- Use WO Component Issue by Pack (16.15.13) to issue the work order components.

Serial ID	First ID from Step 1
Issue Quantity	1000
Serial ID	Second ID from Step 1
Issue Quantity	200
Serial ID	Blank
Item Number	90017
Issue Quantity	24
Location	020
Lot/Serial	90017-1015
Item Number	90040
Issue Quantity	24
Location	020

- Use Pack Create by WO (16.15.2) to create packs for the work order. Because serial IDs are already booked for this work order, the system assigns pack information to the booked serial IDs, and updates the stages of the serial IDs to New.

Lot/Serial	05002-1117
Pack code	BX01
Number of Packs	4
Pack code	PL01
Number of Packs	1

- Use Work Order Browse to view the reserved serial IDs for the work order and their stages. Notice that the stages are New and the pack code and lot/serial information is assigned.
- Use Pack Receipt by WO (16.15.3) to receive the work order for the booked serial IDs.

Gen Pack Serial	No
Build Pallet?	Yes
Master Pack Serial ID	The booked serial ID of pack PL01
Unit pack Serial IDs	The booked serial IDs of pack BX01
Quantity	6
Receive all pending packs?	Yes

- Use Serialized Inventory Report to view the received inventory and notice the serial IDs and the stages.
- Use Work Order Browse to view the summary data for the serial IDs by right-clicking the work order ID and choosing View Serial ID Summary Data from the drop-down menu. You should see the values for the Required, Used, and Booked columns are 5.

Part 3

In this exercise, you practice creating a work order and releasing it. Then, you practice using Pack Receipt by WO to generate packs and to receive the work order.

- Use Work Order Maintenance (16.1) to create a work order for item 05002 in site 10-500 and the quantity is 24. Use Work Order Browse (16.2) to review the created work order. Write down the work order number here _____.
- Use Work Order Release/Print (16.30) to release the work order that you created in the last step and print out the picklist.
- Use Pack Receipt by WO (16.15.3) to generate pack serial IDs and build the packs.

Gen Pack Serial	Yes
Build Pallet?	Yes
Master Pack Serial ID	Blank

BOP Code	05002
Pack Code	BX01
Number of Full Packs	2
Lot/Serial	05002-1117
Receive all pending packs?	No

- Use Work Order Browse to view the serial IDs by right-clicking the work order ID and choosing Master Serial ID from the drop-down menu. Notice that the stage of the master serial ID is Pending. Then, view downstream contents by right-clicking the serial ID and choosing View Downstream Pack from the drop-down menu. You can see that two serial IDs are displayed in the last frame. Write down the master serial ID here _____.
- Use Pack Receipt by WO (16.15.3) to generate the pack serial IDs and to build the packs.

Gen Pack Serial	Yes
Receive all pending packs?	No
Build Pallet?	Yes
Master Pack Serial ID	Select the master serial ID from the last step
Pack Code	BX01
Number of Full Packs	2
Lot/Serial	05002-1118
Receive all pending packs?	No

- Use Work Order Browse to view the serial IDs by right-clicking the work order ID and choosing Master Serial ID from the drop-down menu. Notice that stage of the master serial ID is Pending. Then, view downstream contents by right-clicking the serial ID and choosing View Downstream Pack from the drop-down menu. You can see that four serial IDs, but lots/serials of two groups, are displayed in the last frame.
- Use Pack Receipt by WO (16.15.3) to confirm the receipt.

Gen Pack Serial	No
Receive all pending packs?	Yes

- Use Serialized Inventory Report to view the received inventory and notice the serial ID, lot/serial, and stage data.

Part 4

In this exercise, you practice creating a work order for a serialized product and releasing it. Then, you practice using Pack Receipt by WO to generate packs and to receive the work order.

- In Item Inventory Data Maintenance (1.4.5), set the Serial Control field to M for item 05003.

2. Use Work Order Maintenance (16.1) to create a work order for item 05003 in site 10-500 and the quantity is 16. Use Work Order Browse (16.2) to review the created work order. Write down the work order number here _____.
3. Use Work Order Release/Print (16.30) to release the work order that you created in the last step and print out the picklist.
4. Use Pack Create by WO (16.15.2) to create packs for the work order.

Lot/Serial	05003-1117
Pack code	BX01
Number of Packs	4
Pack code	PL01
Number of Packs	1
Pack code	Blank
Number of Packs	16

5. Use Work Order Browse to view the reserved serial IDs for the work order and their stages. Notice that the stages are New and the pack code and lot/serial information are assigned.
6. Use Pack Receipt by WO (16.15.3) to generate the pack serial IDs and to build the packs.

Gen Pack Serial	No
Build Pallet?	No
Unit Pack Serial ID	Select one from the last step
Quantity	4
Gen Item Serial	No
Serial ID	Select four from the last step
Receive all pending packs?	No

7. Use Work Order Browse to view the serial IDs by right-clicking the work order ID and choosing Master Serial ID from the drop-down menu. Notice that the stage of the master serial ID is Pending. Then, view downstream contents by right-clicking the serial ID and choosing View Downstream Pack from the drop-down menu. You can see four serial IDs displayed in the last frame.
8. Use Pack Receipt by WO (16.15.3) to receive loose serialized items without pack.

Gen Pack Serial	No
Receive all pending packs?	No
Build Pallet?	No
Unit Pack Serial ID	Blank

BOP Code	05003
Quantity	1
Gen Item Serial	No
Lot/Serial	05002-1117
Copy Pack?	No
Serial ID	Select four from the last step
Quantity	1
Receive all pending packs?	No

- Use Work Order Browse to view the serial IDs by right-clicking the work order ID and choosing Master Serial ID from the drop-down menu. Notice that there is a serial ID without a pack code and its stage is Pending. Use Pack Receipt by WO (16.15.3) to confirm the receipt. Use Serialized Inventory Report to view the received inventory and notice the serial ID, lot/serial, and stage data.

CHAPTER 7

Repetitive Production

Repetitive Production

Serialization



Our Passion. Your Advantage.

Repetitive Production

Repetitive Production

Repetitive Production

In this section, you will learn how to:

Identify key business considerations before setting up Serialization in QAD Enterprise Applications

Set up Serialization in QAD Enterprise Applications

- **Process Serialization in QAD Enterprise Applications**

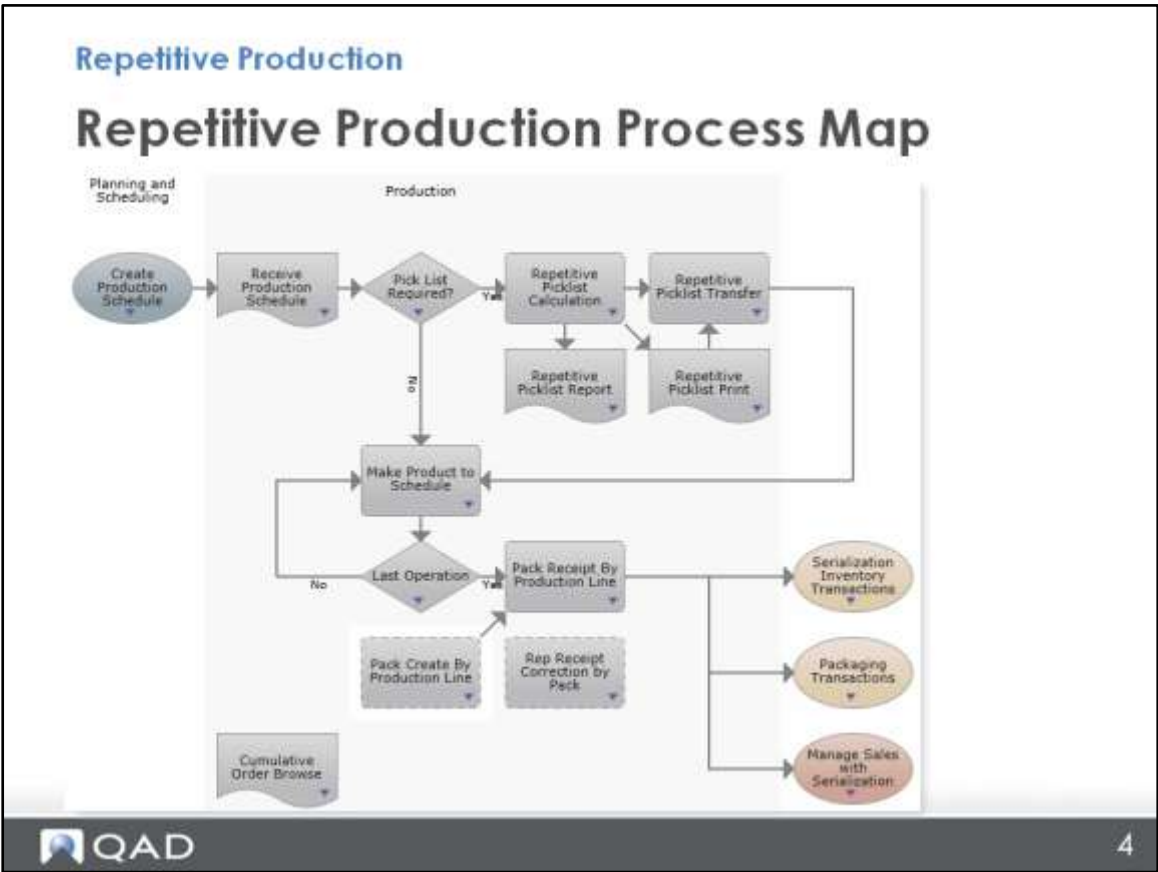
Overview

Repetitive Production

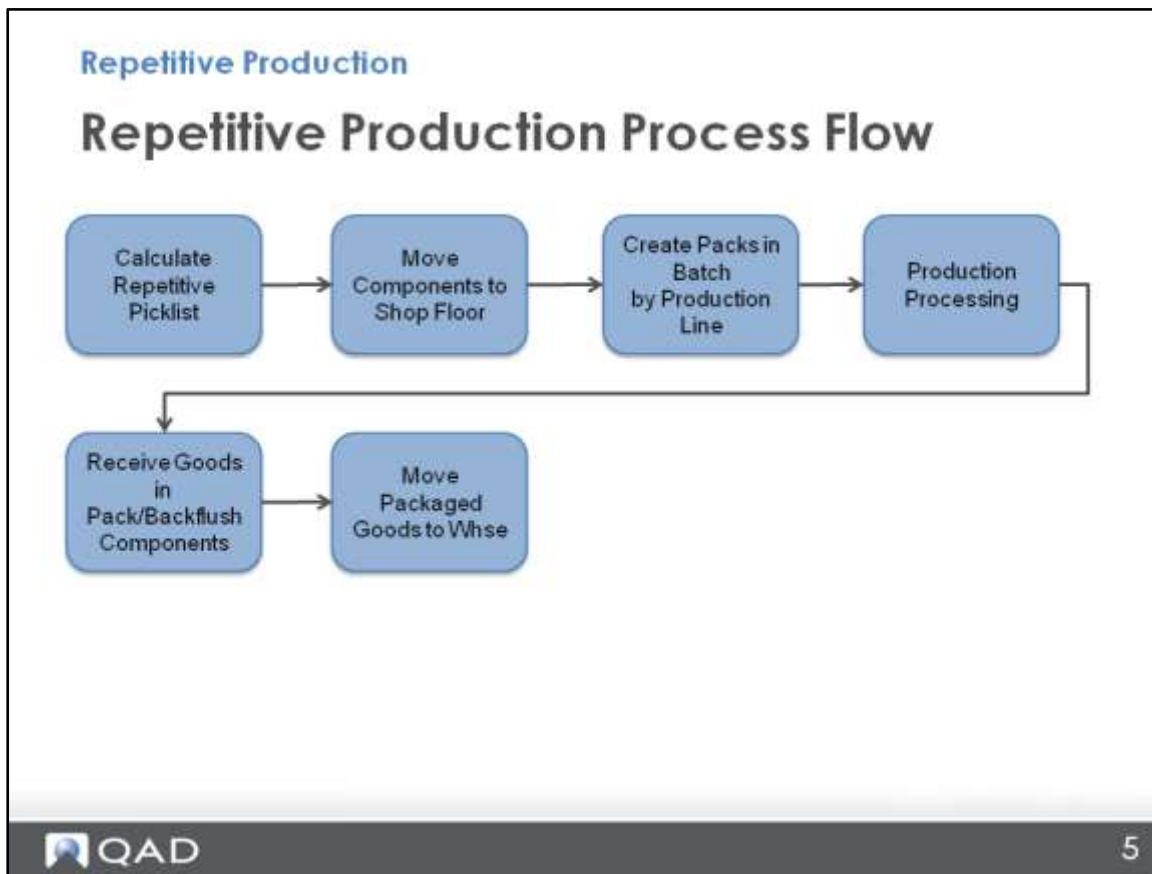
Overview

- Repetitive Production Process Map
- Repetitive Production Process Flow
- Serialization Production Process Example
- Production Process
- Rep Picklist Transfer by Pack
- Pack Create by Production Line
- Pack Receipt by Production Line
- Rep Receipt Correction by Pack
- Backflush Transaction

Repetitive Production Process Map



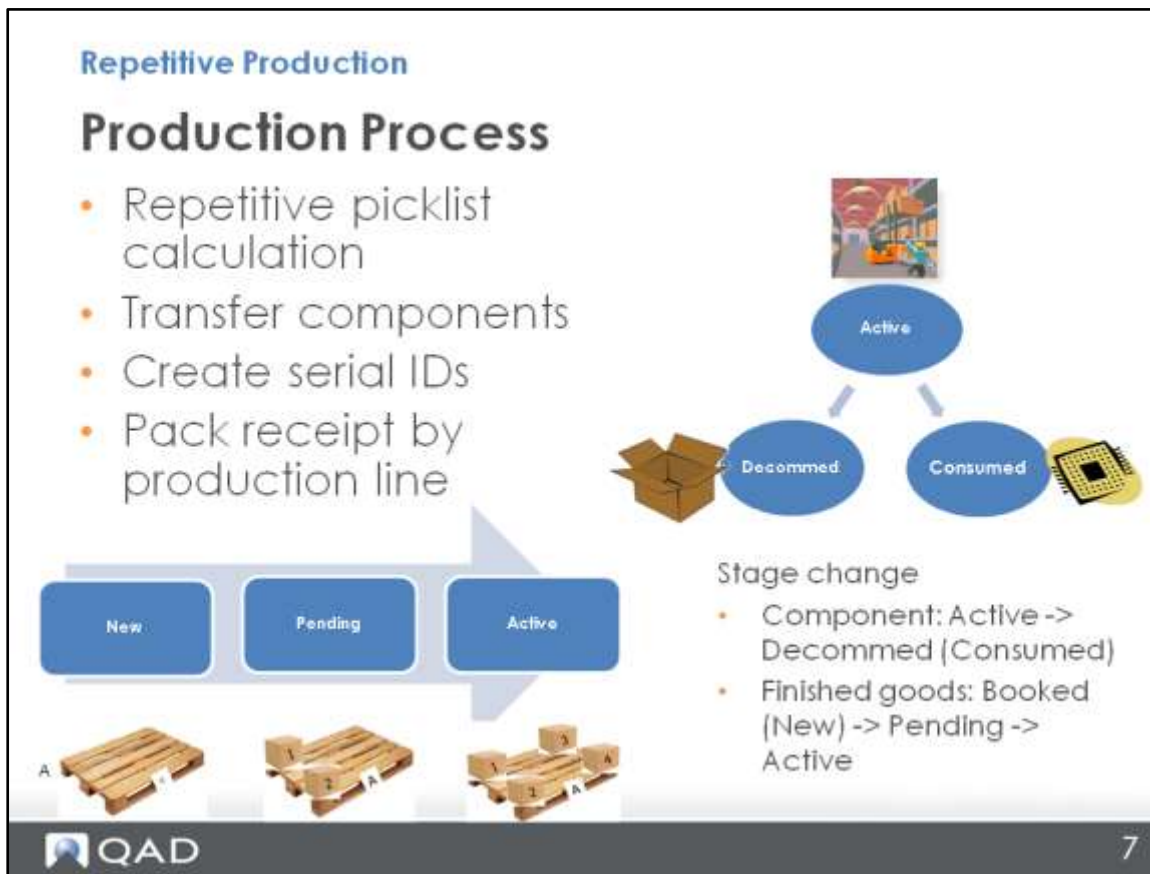
Repetitive Production Process Flow



Serialization Production Process Example



Production Process



Production process steps:

1. Repetitive Picklist Calculation: Print the suggested number of packs to transfer for components.
2. Transfer components: Unit packs, assembly packs, and items; decommission packs.
3. Create serial IDs: Create serial IDs before production to facilitate the backflush process.
4. Pack receipts by production line: For finished goods, generate serial IDs; Scan serial IDs of unit packs, assembly packs, or items.

Stage change:

- Component: From Active to Decommed (Consumed)
- Finished goods: From Booked (New) to Pending, and finally to Active

If components are serialized or in packs, use:

- Backflush Transaction if the component is used for neither the last operation nor the preceding non-milestone operations of the last operation.

- Pack Receipt by Production Line if the component is used for the last operation or the preceding non-milestone operations of the last operation.

The stage of serialized components becomes Consumed.

The stage of packs holding components becomes Decommed.

Repetitive Picklist Calculation

The screenshot displays two overlapping windows from the QAD Repetitive Production software. The top window is the 'Repetitive Picklist Report' and the bottom window is the 'Repetitive Picklist Print'.

Repetitive Picklist Report Data:

Site	Picklist	Work Ctr	Item Number	Site	Location	Lot/Serial	Ref	Qty Alloc	Qty Picked	UM
10-500	RP10000	3092	70050	10-500	050	70050-1117		1,200.00	0.00	EA
			Pills							
			Pack Code	Number						
			BX03	1						
			Item	200						
10-500	RP10000	3092	90017	10-500	020	90017-1015		25.00	0.00	EA
			Bottle, 50 Size							
10-500	RP10000	3092	90040							
			Label							
			150,000 Label							

Repetitive Picklist Print Data:

Site: 10-500 Work Center: 3092 Dry Goods Packaging
Picklist: RP10000 Deliver To:
Sequence: 1

Item Number	Location	Lot/Serial	Qty to Iss	UM	Issued
70050	050	70050-1117	1,200.0	EA	()
Pills					

Both windows feature a small table with a red border highlighting packaging unit information:

Pack Code	Number
BX03	1
Item	200

In Repetitive Picklist Report (18.22.3.25) and Repetitive Picklist Print (18.22.3.5), the system also displays the proposed packaging units for reference for the components in the packs.

Rep Picklist Transfer by Pack

Repetitive Production

Rep Picklist Transfer by Pack

- Move components by pack
- Scan the master pack serial ID to move the whole pack
- Can decommission packs automatically when they are received at the work center
- Provides three options
 - All: Decommission the whole packaging structure
 - Mstr: Decommission the master pack
 - None: No decommission
- Generate both inventory transactions and serial transactions

Use Rep Picklist Transfer by Pack (18.22.7.5) to transfer by serial ID and transfer inventory from the stocking location to the work center location. Optionally, you can use this program to decommission after you transfer.

Rep Picklist Transfer by Pack

For repetitive picklist transfers using QAD Repetitive Picklist Transfer, the system displays an error message, informing you to use Rep Picklist by Pack to transfer components when:

- All items of the selected picklist are mandatory serially controlled through a setting in Item Master Maintenance.
- You enter a serialized component, the system prompts you to use Repetitive Picklist Transfer by Pack.
- Components on the picklist are not serialized, and you check the inventory of loose items in the site, location, lot, and reference, then enter a quantity that is less than the quantity to transfer but the total QOH is enough for the transfer.

The system displays a warning in Repetitive Picklist Transfer by Pack, informing you that the pack/item serial ID to transfer contains items not included in the picklist.

You can choose to decommission the whole pack structure, decommission the master pack only, or not to decommission the pack.

Rep Picklist Transfer by Pack

Repetitive Production

Rep Picklist Transfer by Pack

Serialized Inventory Report
10,USA, USD

Page 1 / 1
11/20/2015
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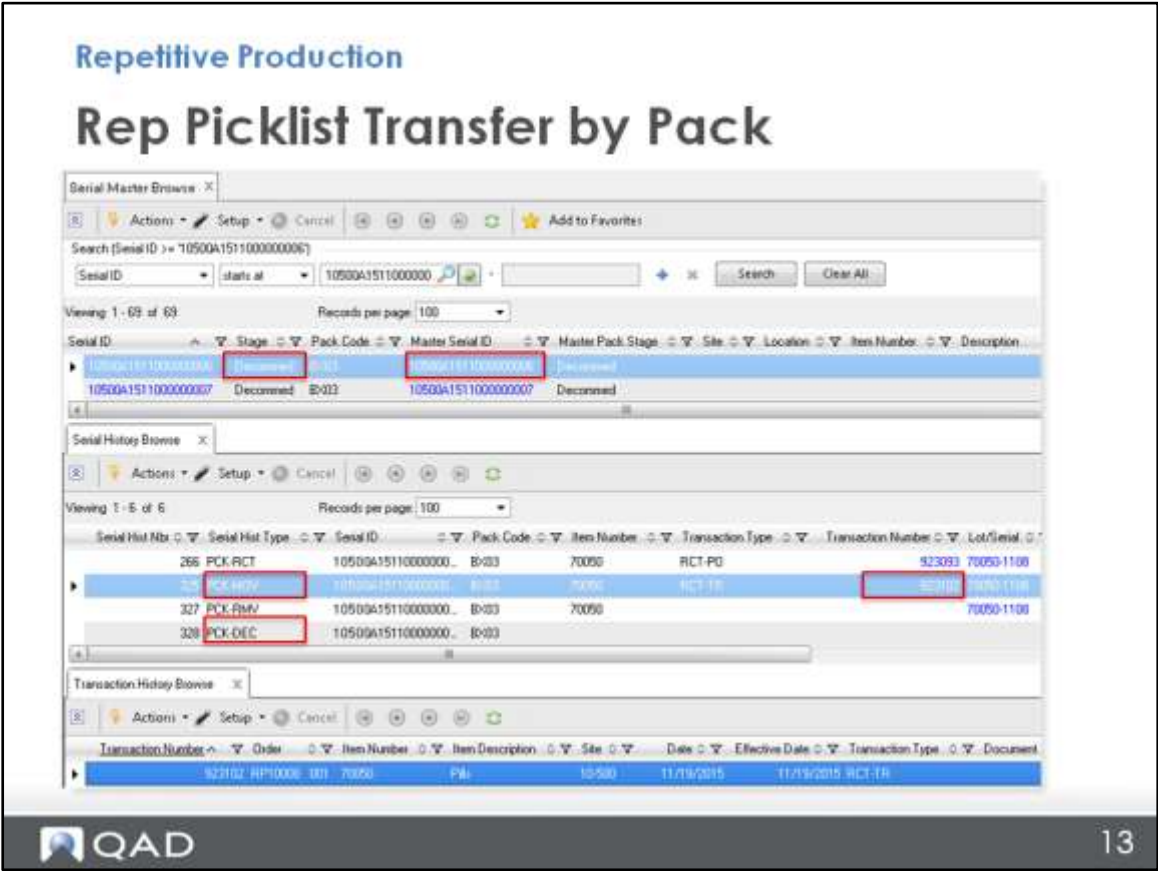
Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	3002	70050 Pils	70050-1198		1,000.00	0.00	1,000.00	EA

End of Report

QAD 12

Repetitive Picklist Transfer by Pack transfers components from the stocking location to the work center location. When the whole packaging structure is decommissioned, the inventory in pack becomes loose inventory at the work center location.

Rep Picklist Transfer by Pack



View Serial IDs in Serial Master Browse. The stage of the packs becomes Decommed. Right-click a master serial ID and choose Serial History Browse from the drop-down menu.

- Serial transaction PCK-MOV is created and linked with an inventory transaction.
- Serial transaction PCK-DEC is created when you decommission the pack.

Pack Create by Production Line

Repetitive Production

Pack Create by Production Line

- Define item, lot, ref, pack code, and standard pack qty before repetitive receipt process
- Creates and print serial IDs before finished goods receipt
- Link the serial IDs to the production line
- The stage of the serial IDs is New

Use Pack Create by Production Line (18.22.7.1) to create packs and print labels based on item, site, or production line before production processing.

Pack Create by Production Line

Repetitive Production

Pack Create by Production Line

Pack Create by Production Line X

Go To Actions Copy Print Preview Attach

Item Number: 05002 File: 50 Tab
 Site: 10-500 Production Line: 3092
 BOM Code: 05002

Receipt Data
 Lot/Serial: 05002-1110
 Reference:

Pack Data
 Pack Code: PL01 GMA 2-way Pallet
 Number of Packs: 2
 Pack Quantity: 40 BX

Default to the unit pack. Leave blank to create Item Serial IDs.

QAD 15

Enter the pack code for which the system assigns serial IDs. The default behavior is to assign IDs from the lowest-level serialized pack of the BOP structure that is determined by the item (BOM), site, address (blank), and transaction type (RCT-WO).

You can modify the pack code. An assembly pack code is allowed. Blank is allowed when serial control of the item is set to M in Item Master Maintenance. When the Pack Code field is blank, the system considers the serialization type to be item serialization. In this situation, the system ignores the pack quantity and UM.

In most cases, the pack code is the unit pack. However, if serial control of the unit pack is set to Never in Packaging Structure Maintenance, the system looks for the upper level whose serial control is other than Never.

Pack Create by Production Line

Repetitive Production

Pack Create by Production Line

Cumulative Order Browse

Search (Item Number = 05002)

Viewing 1 - 1 of 1 Records per page: 100

Item Number	Item Description	Work Order	ID	Qty Comp	Sales/Job	Status	Site	Prod Line
05002	Pills, 50 Tab		2420096	00	0		10500	3092

Reserved Serial ID

Viewing 1 - 10 of 10 Records per page: 100

Serial ID	Pack Code	Stage	Item Number	Production Line	Description	Site	Lot/Serial
P502QM1546000000001	B<01	New	05002	3092	Pills, 50 Tab	10500	05002-1110
P502QM1546000000002	B<01	New	05002	3092	Pills, 50 Tab	10500	05002-1110
P502QM1546000000003	B<01	New	05002	3092	Pills, 50 Tab	10500	05002-1110
P502QM1546000000004	B<01	New	05002	3092	Pills, 50 Tab	10500	05002-1110
P502QM1546000000005	B<01	New	05002	3092	Pills, 50 Tab	10500	05002-1110
P502QM1546000000006	B<01	New	05002	3092	Pills, 50 Tab	10500	05002-1110
P502QM1546000000007	B<01	New	05002	3092	Pills, 50 Tab	10500	05002-1110
P502QM1546000000008	B<01	New	05002	3092	Pills, 50 Tab	10500	05002-1110
P502QM1546000000009	FL01	New	05002	3092	Pills, 50 Tab	10500	05002-1110
P502QM1546000000010	FL01	New	05002	3092	Pills, 50 Tab	10500	05002-1110

QAD 16

View the reserved serial IDs in Cumulative Order Browse by right-clicking the production line ID and choosing Reserved Serial ID from the drop-down menu.

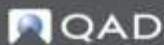
The stages of the serial IDs are New and linked to the production line.

Pack Receipt by Production Line

Repetitive Production

Pack Receipt by Production Line

- Performs finished product receipt and component issue in one transaction.
- Only supports final operation. Always treats Move Next Op as Yes.
- Receives finished products into packs.
- Issues components when receipt is confirmed. Issues unit packs, assembly packs, item serial IDs, or non-serialized loose inventory.



17

Use Pack Receipt by Production Line (18.22.7.2) to:

- Receive goods by pack or receive loose serialized items using Serialization logic.
- Build the pack by scanning serial IDs.
- Create packs by batch.
- Backflush components to the operation.

You can create new unit packs, and then load inventory to the new unit pack. You can also create new unit packs and new assembly packs, and then build the unit packs on the assembly pack. You can then load the inventory into the unit pack and load the unit packs into the assembly pack. Finally, you can use this program to build lower-level packs on an existing parent pack.

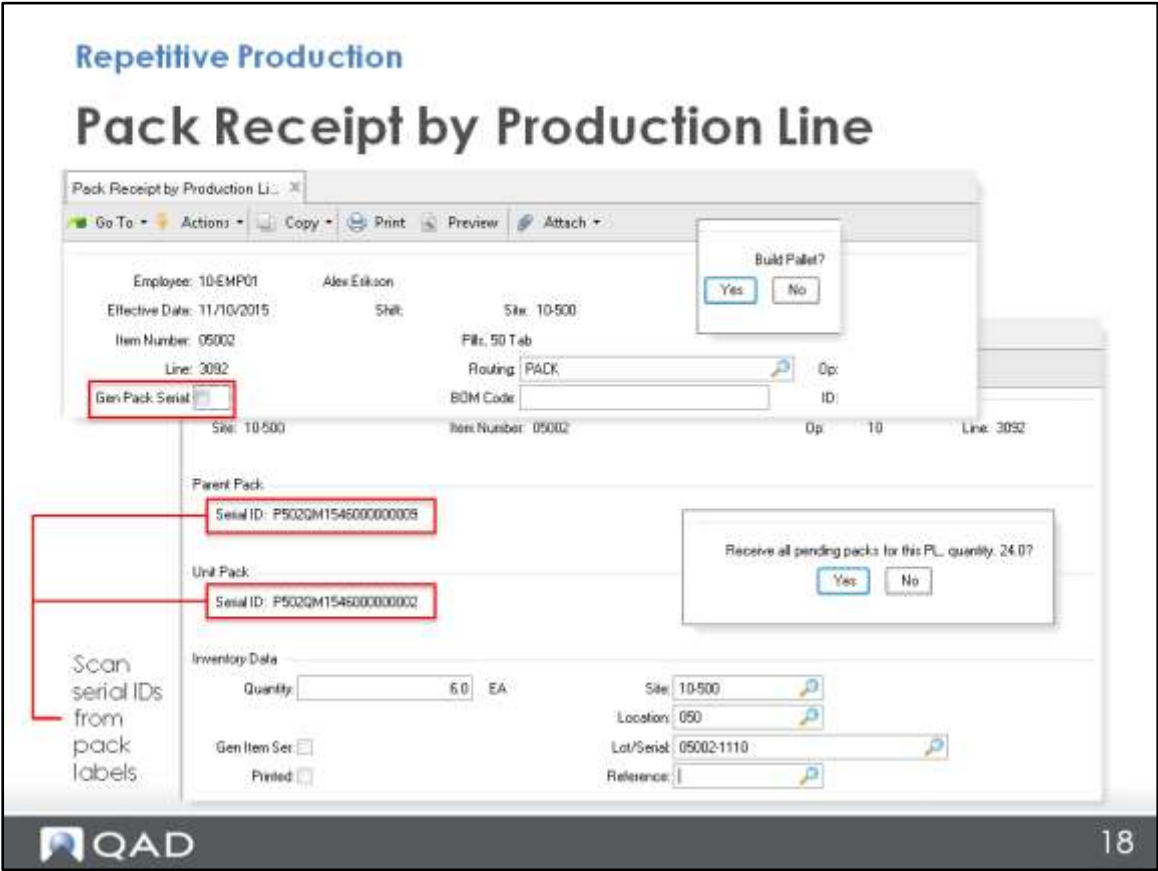
You select to generate the serial IDs during the receiving process. You can also create the serial IDs beforehand and create the pack structure manually.

The serial ID stage is Pending before receipt confirmation and becomes Active after receipt confirmation.

This program performs finished product receipts and component issues in one transaction. It only supports the final operation, and always treats Move Next Op as Yes. If a serialized component or a component in the pack

needs to be backflushed at an operation that is not the last one, use Backflush Transaction (18.22.13).

Pack Receipt by Production Line



Scenario 1: Scan serial IDs of the full packaging structure.

If the serial IDs have been created, printed, and applied to the packs of the finished goods, clear the Gen Pack Serial field and scan the serial IDs from the pack labels for master and unit pack fields. Build the pallet and confirm the receipt.

Pack Receipt by Production Line

Repetitive Production

Pack Receipt by Production Line

Pack Receipt by Production Li... x

Go To Actions Copy Print Preview Attach

Employee: 10-EMP01 Alex Erikson
Effective Date: 11/10/2015 Shift: Site: 10-500
Item Number: 05002 File: 50 Tab
Line: 3092 Routing: PACK Op: ID:
BOM Code: ID:

Build Pallet?
Yes No

Gen Pack Serial

Site: 10-500 Item Number: 05002 Op: 10 Line: 3092

Unit Pack
Serial ID: P502QM1546000000001

Receive all pending packs for this PL quantity: 6.0?
Yes No

Inventory Date
Quantity: 6.0 EA Site: 10-500
Location: 050
Lot/Serial: 05002-1110
Reference:

Gen Item Ser: Printed:

Scan the serial ID from the pack label

QAD 19


Scenario 2: Scan serial IDs for unit packs.

When prompted to build pallets, answer No. If the serial IDs have been created, printed, and applied to the packs of the finished goods, clear the Gen Pack Serial field and scan the unit pack serial IDs from the pack labels for the Unit Pack field.

Pack Receipt by Production Line

Repetitive Production

Pack Receipt by Production Line




Serialized Inventory Report

10USA USD

Page 1 / 1
11/10/2015
5:18:54 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	050	05002 Pills, 50 Tab	05002-1110		30.00	30.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1546000000009	PL01	Active	4.00	BX
2	P502QM15460000000002	BX01	Aggregated	6.00	EA
2	P502QM15460000000003	BX01	Aggregated	6.00	EA
2	P502QM15460000000004	BX01	Aggregated	6.00	EA
2	P502QM15460000000005	BX01	Aggregated	6.00	EA
Total				24.00	EA
1	P502QM15460000000001	BX01	Active	6.00	EA
Total				6.00	EA


20

Pack Receipt by Production Line

Repetitive Production

Pack Receipt by Production Line

Inventory Detail by Site Browse

Actions Setup Cancel Add to Favorites

Search (Site = 10-500) and (Item Number = 05002)

Site equals 10-500 Search Clear All

Item Number equals 05002

Viewing 1 - 1 of 1 Records per page: 100

Site	Location	Item Number	Lot/Serial	Reference	Qty on Hand	Total On Hand	Status	Created	Expn	Assay Percent
10-500	050	05002	050021110		50	50	11/10/2015	EA/Comp		

Master Serial ID

Actions Setup Cancel

Viewing 1 - 2 of 2 Records per page: 100


Serial ID	Pack Code	Item Number	Description	Quantity In Pack	UM	Site	Location	Lot/Serial	Reference
P502QM1540000000001	B-01	05002	PA, 50 Tab	6.0	EA	10-500	050	050021110	
P502QM1540000000002	PL01	05002	PA, 50 Tab	4.2	EA	10-500	050	050021110	

Serial History Browse

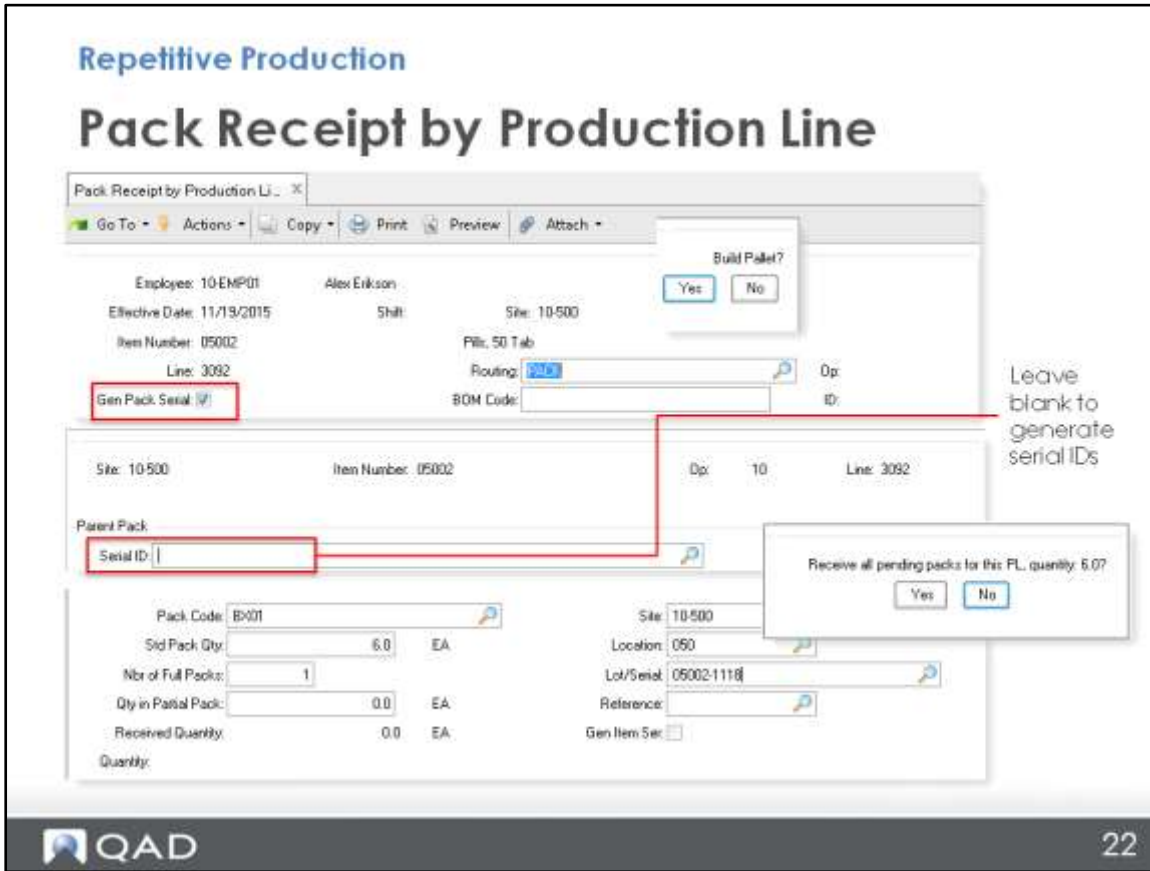
Actions Setup Cancel

Viewing 1 - 23 of 23 Records per page: 100

Serial Hist Nbr	Serial Hist Type	Serial ID	Pack Code	Stage	Item Number	Transaction Type	Transaction Number
107	PDX-DHS	P502QM1540000000009	PL01	Pending	05002		
122	PDX-RCT	P502QM1540000000005	PL01	Active	05002	RCT-WD	00005


21

Pack Receipt by Production Line

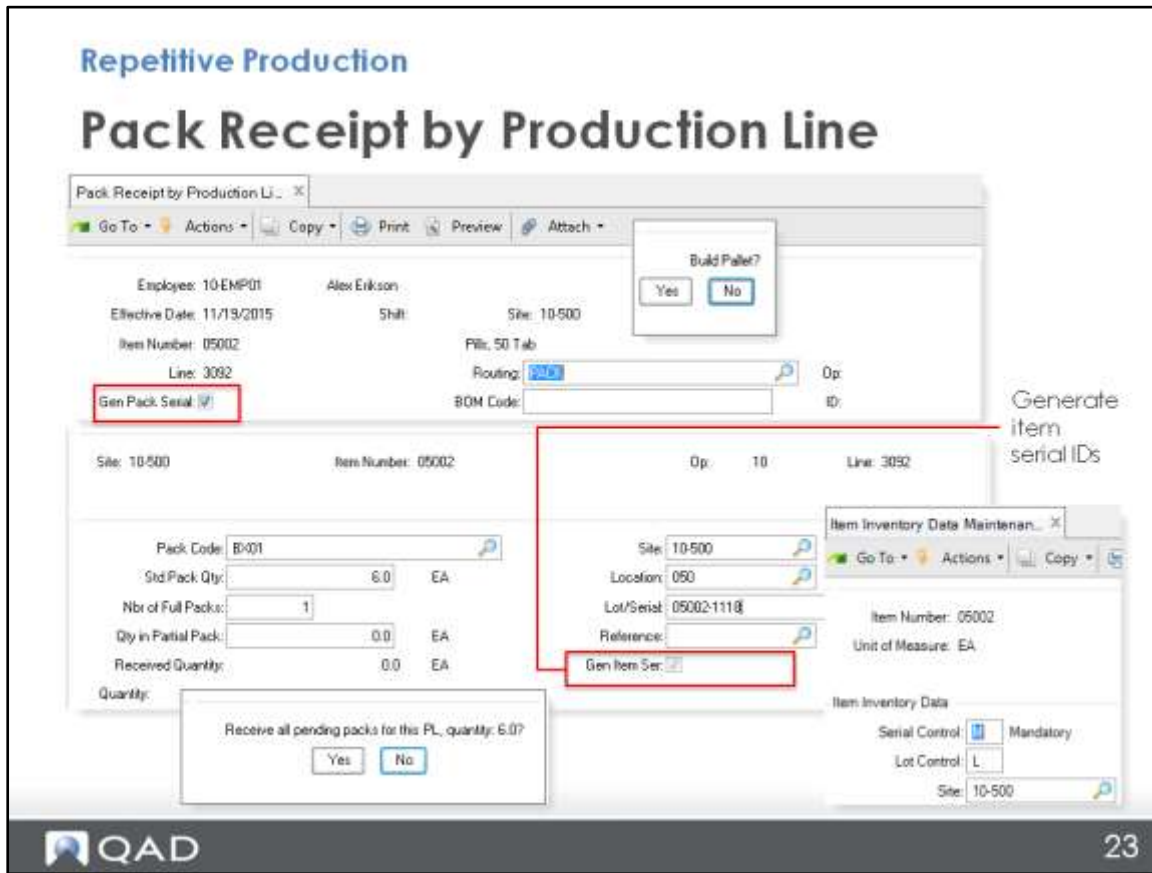


Scenario 3: Generate assembly packs and/or unit packs.

If the serial IDs have not been created for the finished goods pack receipt, select the Gen Pack Serial field, choose the appropriate pack code, and enter the full pack numbers to receive. Build the pallet but choose No when prompted to receive all pending packs.

If you choose No when prompted to build pallets, the system only generates serial IDs for unit packs.

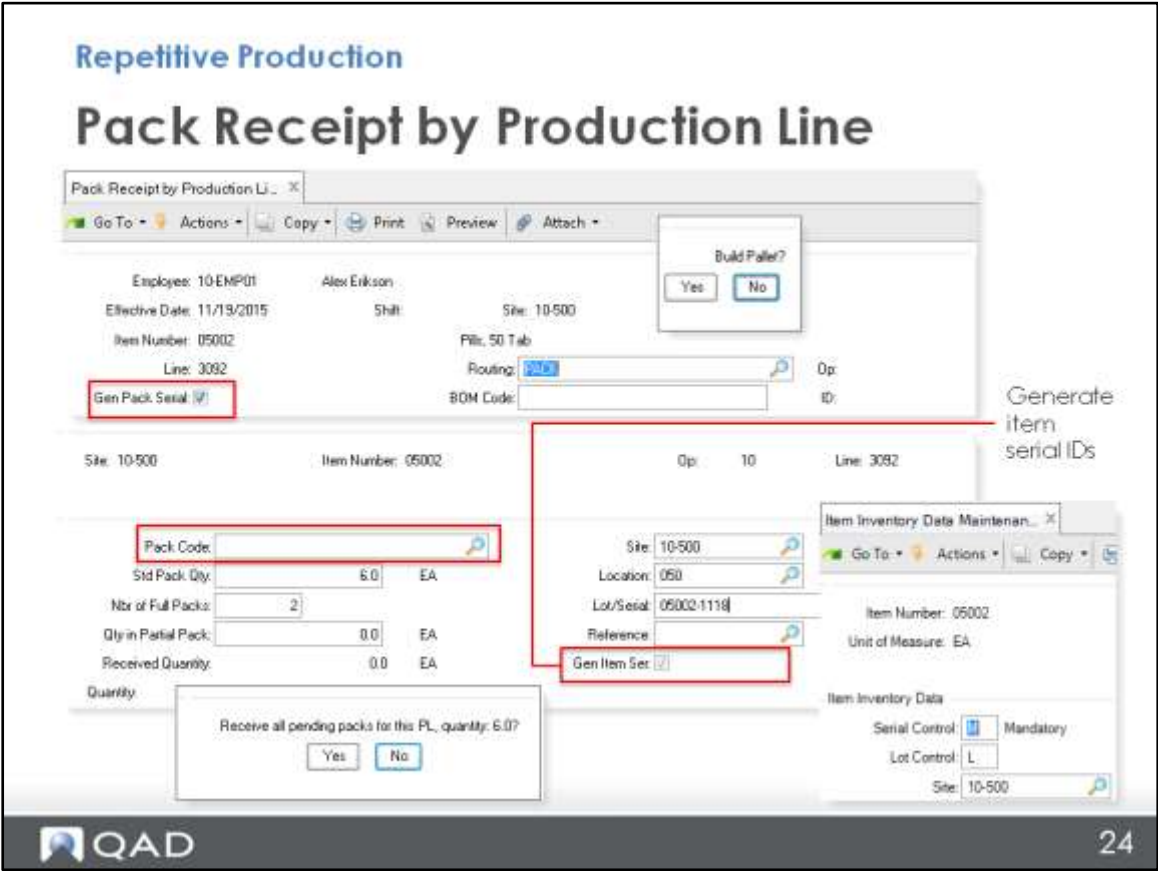
Pack Receipt by Production Line



Scenario 4: Generate item and pack serial IDs to receive serialized items into the unit pack.

If the item has the Mandatory Serial Control attribute, the system generates both pack and item serial IDs if you select both the Gen Pack Serial and Gen Item Serial fields.

Pack Receipt by Production Line



Scenario 5: Generate serial IDs to receive loose serialized items.

You can generate serial IDs for loose serialized items and receive them by leaving the pack code blank.

Pack Receipt by Production Line

Repetitive Production

Pack Receipt by Production Line

Pack Receipt by Production LI... X

Go To • Actions • Copy • Print • Preview • Attach •

Employee: 10EMP01 Alex Erikson
 Effective Date: 11/20/2015 Shift Site: 10-500

Item Number: 05002 Pils, 50 Tab
 Line: 3032 Routing: PACK Op: 10
 BDM Code: ID: 2429919

Build Pallet?
 Yes No

Gen Pack Serial

Unit Pack:
 Serial ID:
 Inventory Data
 Quantity: 1.0 EA Site: 10-500
 Location: 050
 Lot/Serial: 05002-1110
 Reference:

Create Pack?
 Yes No

Gen Item Ser. Printed

Item Inventory Data Maintenance X
 Go To • Actions • Copy •

Item Number: 05002
 Unit of Measure: EA

Item Inventory Data
 Serial Control: Mandatory
 Lot Control: L
 Site: 10-500

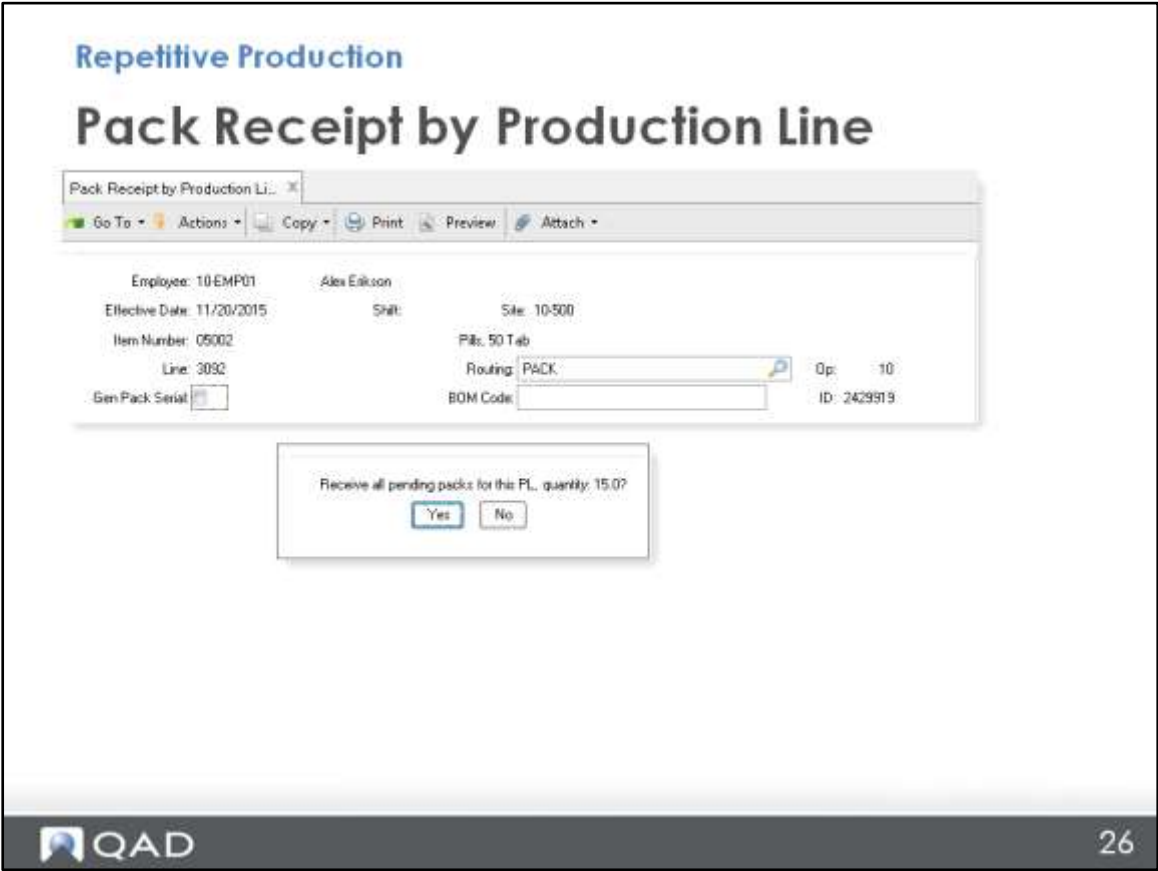
Serial ID: P502QM1547000000027 Quantity: 1.0

QAD 25

Scenario 6: Scan serial IDs to receive loose serialized items.

You can receive the loose items by scanning the serial IDs of the loose serialized items. In this case, clear both the Gen Pack Serial field and the Gen Item Serial field; and choose No when prompted to create packs.

Pack Receipt by Production Line



Use Pack Receipt by Production Line to confirm the receipt after the inventory serialization information has been verified and everything is correct. The system changes the stage of the unit pack, assembly pack, or serialized item to Active.

Pack Receipt by Production Line

The system backflushes the components when the receipt is confirmed and always treats Move Next Op as Yes. The system issues non-serialized loose inventory as a standard transaction.

The component backflush list data entry frame is displayed when:

- The component is lot/serial controlled.
- For some reason, the component is not issuable, for example, non-serialized loose inventory at the work center location is not enough.
- The component is serialized.

To issue packs or item serial IDs, select the View/Edit Serial List field. If the component is serialized, the system automatically sets View/Edit Serial List to Yes and makes it read only.

Enter the serial ID of the pack or item for backflush:

- It can be a unit pack holding the component.
- It can be an assembly pack that only holds the component.
- It can be an item serial ID for the component.

To issue the unit pack partially, fill in the Quantity to Issue field. After the transaction, the stage of the unit pack remains Active.

To issue non-serialized loose inventory, you can enter the inventory in the component backflush list data entry frame, or leave the serial ID field blank in the component serial data entry frame and enter the inventory information.

To issue an assembly pack, enter its serial ID. You cannot issue an assembly pack partially.

Pack Receipt by Production Line

The screenshot displays the QAD software interface for 'Repetitive Production Pack Receipt by Production Line'. It features three main data panes:

- Serial Master Browse:** Shows a table with columns: Serial ID, Stage, Pack Code, Master Serial ID, Master Pack Stage, Site, Location, Item Number, and Description. A search bar is visible above the table.
- Serial History Browse:** Shows a table with columns: Serial Hist Nbr, Serial Hist Type, Serial ID, Pack Code, Transaction, Transaction Num, Item Number, and Lot/Serial.
- Transaction History Browse:** Shows a table with columns: Transaction Number, Order, Item Number, Item Description, Site, Date, Effective Date, Transaction Type, and Document.

The QAD logo is visible in the bottom left corner, and the page number '28' is in the bottom right corner.

To view the serial history that is created for the pack receipt, open Serial Master Browse, right-click the master serial ID, and choose Serial History Browse from the drop-down menu.

To view the inventory transaction, right-click the transaction number and choose Transaction History Browse.

You can also view serial history by opening Inventory Detail by Site Browse, right-clicking the site, and choosing Master Serial ID. Then, right-click the serial ID and choose Serial History Browse.

An PCK-RCT serial transaction is created and is linked with an inventory transaction. To view the inventory transaction, right-click the transaction number and choose Transaction History Browse.

Rep Receipt Correction by Pack

Repetitive Production

Rep Receipt Correction by Pack

- Reverse of Pack Receipt by Production Line
- Return unit packs, assembly packs, or item serial IDs in the output queue at the last operation
- Return packs fully or partially
- Return serialized items received by prod line
- Cannot return components associated with the last operation
- Change item serial stage from Active to New
- Change pack stage from Active to Decommed



29

Use Rep Receipt Correction by Pack (18.22.7.3) to receive a negative quantity so that the system can remove inventory packs you previously received. So, you use this program to reverse what you received with Pack Receipt by Production Line.

The system removes previously received packs from inventory and reduces the quantity in the output queue at the last operation. The system does not return components associated with the last operation to the work center location. Therefore, you are required to reverse the backflush using a backflush transaction. The correction only occurs at the last operation.

After you correct the receipt of serialized items or items in pack with Rep Receipt Correction by Pack, if you want to reverse component backflush, use Backflush Transaction.

To reverse the receipt of an assembly pack, make sure that the assembly pack holds single items.

Rep Receipt Correction by Pack

Repetitive Production

Rep Receipt Correction by Pack

Rep Receipt Correction by Pack

Go To Actions Copy Print Preview Attach

Employee: 10-EMP01 Alex Eri
Document
Effective: 11/10/2015 Shift Site: 10-500
Item Number: 05002 Pks. 5
Line: 3092 Operator: 10
Routing: PACK BOM Code: 05002 ID: 2429896

Serial ID: P502QM1546000000011
Stage:

WARNING: Pack still aggregated to P502QM1546000000012, remove it?
Yes No

QAD 30

If you return a unit pack, the system changes the pack stage to Decommed. The assembly pack stage remains Active.

Rep Receipt Correction by Pack

Repetitive Production

Rep Receipt Correction by Pack

Serialized Inventory Report
10USA USD

Page 1 / 1
11/11/2015
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Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM	
10-500	050	05002 Pills, 50 Tab	05002-1111		24.00	24.00	0.00	EA	
Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM				
1	P502QM1546000000012	PL01	Active	4.00	BX				
2	P502QM1546000000011	BX01	Aggregated	6.00	EA				
2	P502QM1546000000013	BX01	Aggregated	6.00	EA				
2	P502QM1546000000014	BX01	Aggregated	6.00	EA				
2	P502QM1546000000015	BX01	Aggregated	6.00	EA				
Total							24.00	EA	

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM	
10-500	050	05002 Pills, 50 Tab	05002-1111		18.00	18.00	0.00	EA	
Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM				
1	P502QM1546000000012	PL01	Active	3.00	BX				
2	P502QM1546000000013	BX01	Aggregated	6.00	EA				
2	P502QM1546000000014	BX01	Aggregated	6.00	EA				
2	P502QM1546000000015	BX01	Aggregated	6.00	EA				
Total							18.00	EA	

QAD 31

Rep Receipt Correction by Pack

Repetitive Production
Rep Receipt Correction by Pack

Serial Master Browse

Search (Serial ID = P502GM154600000011)

Viewing 1 - 1 of 1 Records per page: 100

Serial ID	Stage	Pack Code	Master Serial ID	Master Pack Stage	Site	Location	Item Number	Description
P502GM154600000011	Decommit	3001	P502GM154600000011	Decommit				

Serial History Browse

Viewing 1 - 7 of 7 Records per page: 100

Serial Hist Nbr	Serial Hist Type	Serial ID	Pack Code	Transacti	Transaction Nu	Quantity Change	Lot/Serial
11	Pack Receipt	P502GM154600000011	3001	RCTAWD	923074		11/10/2015

Transaction History Browse

Transaction Number	Order	Item Number	Item Description	Site	Date	Effective Date	Transaction Type	Documen
923074		05002	Pbk. 50 Tab	10500	11/10/2015	11/10/2015	RCTAWD	

QAD 32

View serial history in Serial Master Browse by right-clicking the master serial ID and choosing Serial History Browse from the drop-down menu.

The PCK-RCT serial transaction is created and is linked with inventory history.

Backflush Transaction

Repetitive Production

Backflush Transaction

- Reverse of component backflush done in Pack Receipt by Production Line.
- Return item serial ID.
 - Stage changed from Consumed to Active. The item serial ID must be issued to the production line.
- Return non-serialized loose inventory.



If you have corrected end item receipts with Rep Receipt Correction by Pack, and you still want to correct component backflush, use Backflush Transaction and set Qty Processed to 0. Then, enter the components to be corrected.

If the component is serialized, to correct component backflush, enter the item serial ID.

If the component is not serialized, to correct component backflush, enter non-serialized loose inventory information. You cannot enter packs.

Backflush Transaction

Repetitive Production

Backflush Transaction

Backflush Transaction x

Go To - Actions - Copy - Print - Preview - Attach -

Employee: 10-EMP01 Alex Eakson
 Document:
 Effective: 11/23/2015 Shift: Site: 10-500
 Item Number: 05002 Pkts: 50 Tab
 Operator: 10 Package Finished Prod
 Line: 3032 Pack:
 Routing: PACK BOM Code: 05002 ID: 2429895

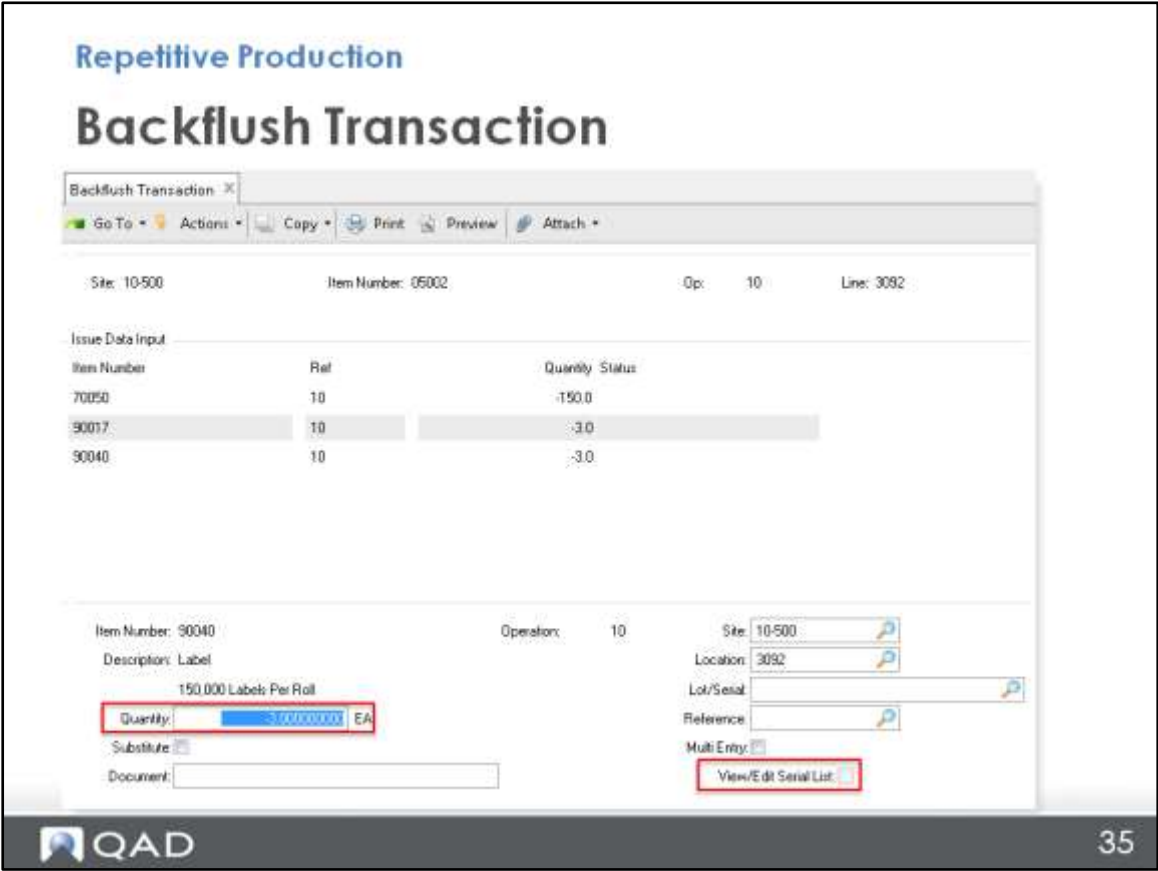
Work Center: 3032 Machine: Dry Goods Packaging
 Department: 0750 Packaging
 Qty Processed: 0.0 UM: EA Conversion: 1.0000
 Qty Scrapped: 0.0 Reason Code:
 Qty Rejected: 0.0 Reason Code:
 Reject To Op: 10 Modify Backflush:
 Actual Run Time: 0.0 Multi Entry:
 Earning Code: Start Time:
 Elapsed or Stop Time:

QAD 34

To correct component backflush:

- If the end item receipt is corrected with Rep Receipt Correction by Pack, set Qty Processed to 0 and modify Backflush to Yes.
- If the end item receipt is not corrected and the end item is not serialized, set Qty Processed to be negative.

Backflush Transaction



If the component is not serialized, to correct component backflush, you are required to enter inventory detail. You are not allowed to set View/Edit Serial List to Yes.

If the component is serialized, to correct component backflush, you are not allowed to enter inventory detail and are not allowed to set View/Edit Serial List to No. Enter the item serial ID in the Serial ID List entry frame.

Review

Repetitive Production


Review

- Repetitive Production Process Map
- Repetitive Production Process Flow
- Serialization Production Process Example
- Production Process
- Rep Picklist Transfer by Pack
- Pack Create by Production Line
- Pack Receipt by Production Line
- Rep Receipt Correction by Pack
- Backflush Transaction

Exercise: Repetitive Production

Repetitive Production

Exercise: Repetitive Production



QAD 37

Part 1

In this exercise, you practice creating a repetitive schedule, calculating the picklist, and transferring the picklist. You also practice creating packs for a production line and doing the pack receipt by production line.

1. Use Product Structure Maintenance (13.5) to add Operation 10 for three components of the finished product 05002. Use Location Maintenance (1.1.18) to create a location 3092 for site 10-500.
2. Use Schedule Maintenance (18.22.2.1) to maintain a repetitive schedule for item 05002.

Site	10-500
Item	05002
Production Line	3092
Due Date	Today
Scheduled Quantity	48

3. Use Schedule Explosion (18.22.2.4) to explode the schedule that you created in the last step.

4. Use Repetitive Picklist Calculation (18.22.3.1) to calculate the component movement requirement for today and generate the picklist. You will see the proposed packaging units in the picklist. Use Repetitive Picklist Report (18.22.3.25) to print the picklist report and use Repetitive Picklist Print (18.22.3.5) to print the picklist.
5. Use Rep Picklist Transfer by Pack (18.22.7.5) to transfer 70050 to the work center location and do not decommission the transferred packs. Write down the serial IDs here _____. Use Repetitive Picklist Transfer (18.22.3.6) to transfer the remaining components.
6. Use Pack Create by Production Line (18.22.7.1) to create packs for the production line 3092. Use Cumulative Order Browse (18.22.6.2) to view the serial IDs that you booked.

Site	10-500
Item	05002
Production Line	3092
Lot/Serial	05002-1118
Pack Code	BX01
Number of Packs	4
Pack Code	PL01
Number of Packs	1

7. Use Pack Receipt by Production Line (18.22.7.2) to receive a full pack of PL01 with the serial IDs from the last step.

Gen Pack Serial	No
Build Pallet?	Yes
Master Pack Serial ID	The created serial ID of pack PL01
Unit pack Serial IDs	The created serial IDs of pack BX01
Quantity	6
Receive all pending packs?	No

8. Use Cumulative Order Browse to view the serial ID for the receipt and the stage should be Pending. Right-click the serial ID and view the downstream packs.

Part 2

In this exercise, you will receive one more pack of PL01 by production line and backflush the components. You also practice correcting a repetitive receipt by pack transaction and correcting the component backflush as well.

1. Use Pack Receipt by Production Line (18.22.7.2) to receive a full pack of PL01 with the serial IDs from the last step.

Gen Pack Serial	Yes
-----------------	-----

Build Pallet?	Yes
Master Pack Serial ID	Blank
BOP Code	05002
Number of full Packs	6
Location	050
Lot/Serial	05002-1118
Receive all pending packs?	No

2. Use Cumulative Order Browse to view the serial ID for the receipt and the stage should be Pending. Right-click the serial ID and view the downstream packs.
3. Use Pack Receipt by Production Line (18.22.7.2) to confirm the receipt by choosing Yes when prompted to receive all pending packs.

Gen Pack Serial	No
Receive all pending packs?	Yes

4. Continue to backflush the components and complete the receipt.

Item Number	70050
Lot/Serial	05002-1118
View/Edit Serial List	Yes
Serial ID	Last exercise (Part 1) Step 5
Quantity	Pack quantity
Item Number	70050
Lot/Serial	Blank
Multi Entry	Yes
View/Edit Serial List	No
Quantity	0
Item Number	90017
Lot/Serial	90017-1015
View/Edit Serial List	No
Quantity	48
Item Number	90017
Lot/Serial	Blank

Multi Entry	Yes
View/Edit Serial List	No
Quantity	0

- Use Serialized Inventory Report to view the received inventory and notice the serial IDs and the stages. Write down the serial IDs that you received here _____.
- Use Rep Receipt Correction by Pack (18.22.7.3) to do a receipt correction.

Serial ID	One of the serial IDs from last step
Confirm Update	Yes

- Use Backflush Transaction (18.22.13) to correct the component backflush.

Quantity Processed	0
Item Number	70050
Lot/Serial	05002-1118
Quantity	-1200
Item Number	90017
Lot/Serial	90017-1015
Quantity	-24
Item Number	90040
Lot/Serial	Blank
Quantity	-24

- Use Serialized Inventory Report to view the received inventory and notice the serial IDs and the stages.

CHAPTER 8

Outbound Shipments

Outbound Shipments

Serialization



Our Passion. Your Advantage.

Outbound Shipments

Outbound Shipments

Outbound Shipments

In this section, you will learn how to:

Identify key business considerations before setting up Serialization in QAD Enterprise Applications

Set up Serialization in QAD Enterprise Applications

- **Process Serialization in QAD Enterprise Applications**

Overview

Outbound Shipments

Overview

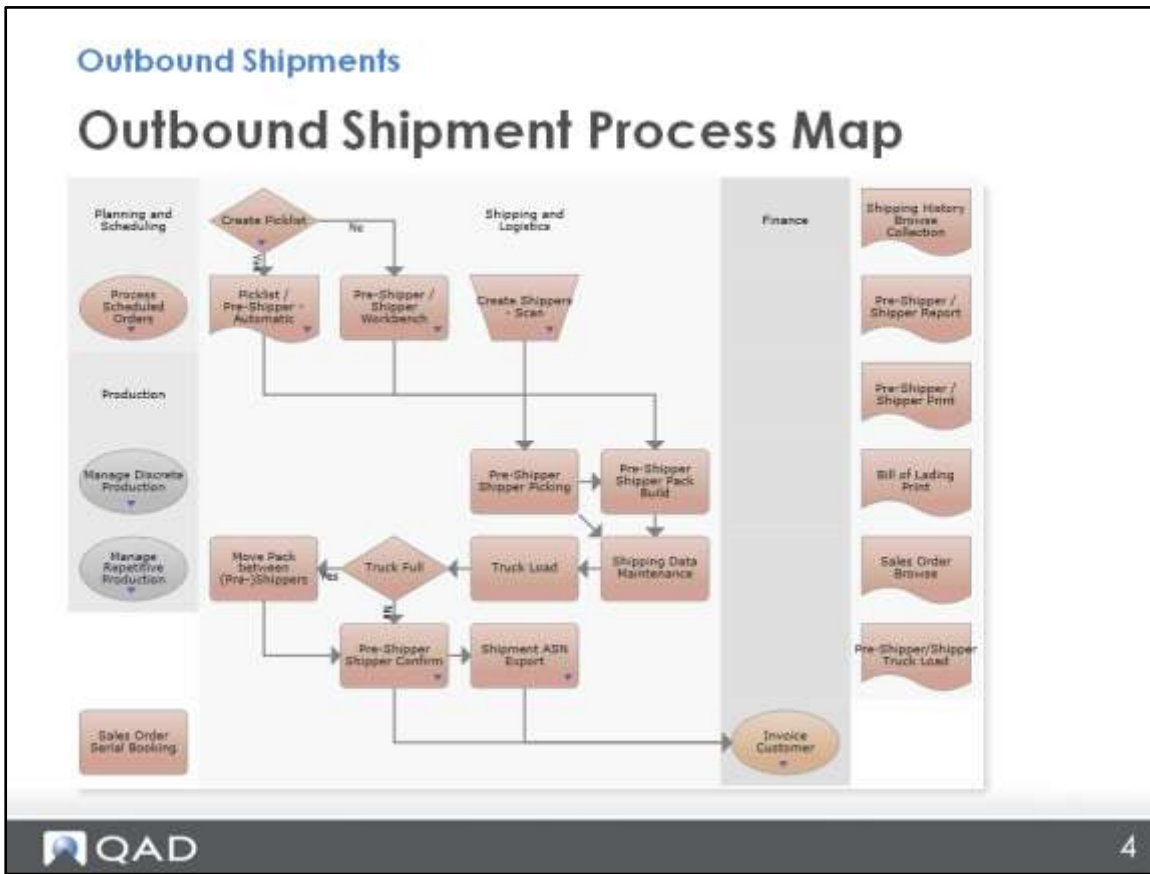
- Outbound Shipment Process Map
- Outbound Shipment Process Flow
- Outbound Shipment Process Example
- Sales Order Serial Booking
- Shipping Process
- Picklist/Pre-Shipper – Automatic
- Pre-Shipper/Shipper Picking
- Pre-Shipper/Shipper Pack Build

Outbound Shipments

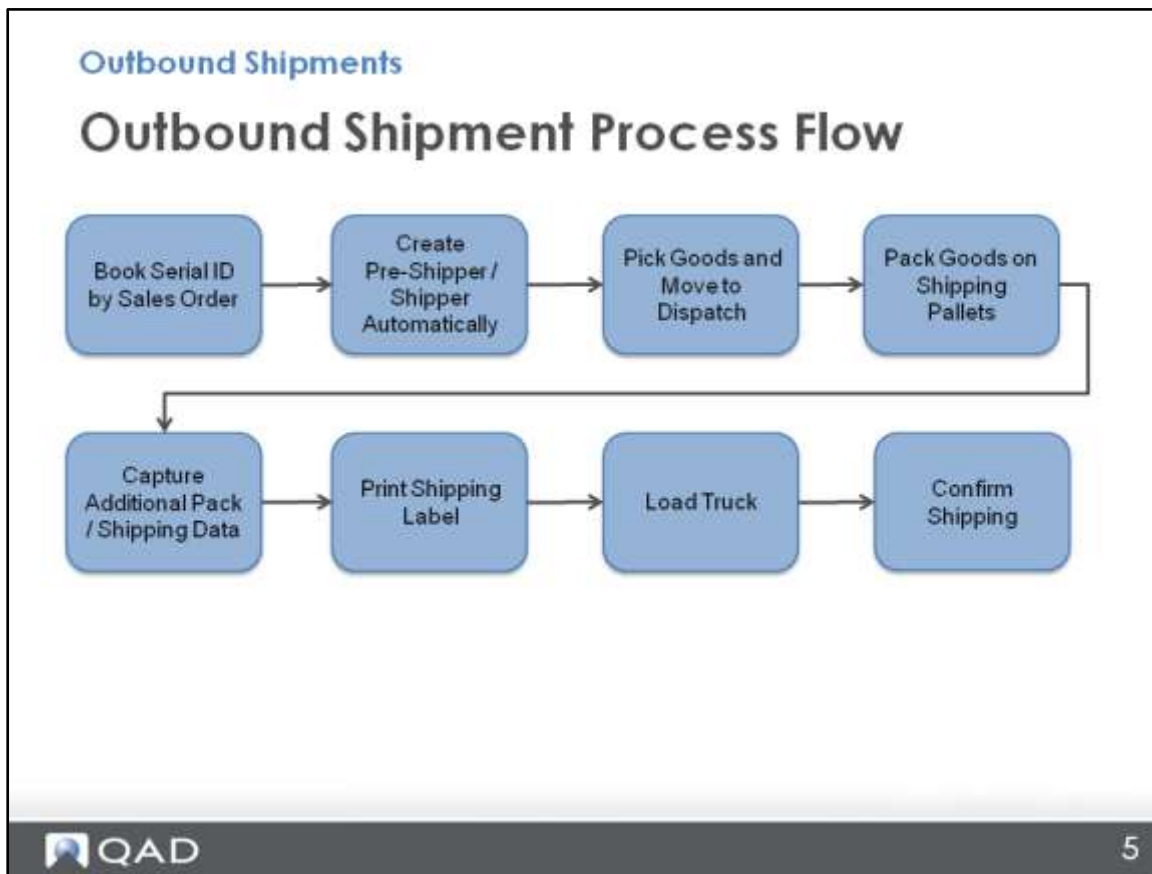
Overview – Continued

- Pre-Shipper/Shipper Workbench
- Truck Load
- Shipping Data Maintenance
- Move Pack between (Pre-)Shippers
- Pre-Shipper/Shipper Confirm
- Shipper Unconfirm
- Shipping Process – Return
- Serial Usage Export

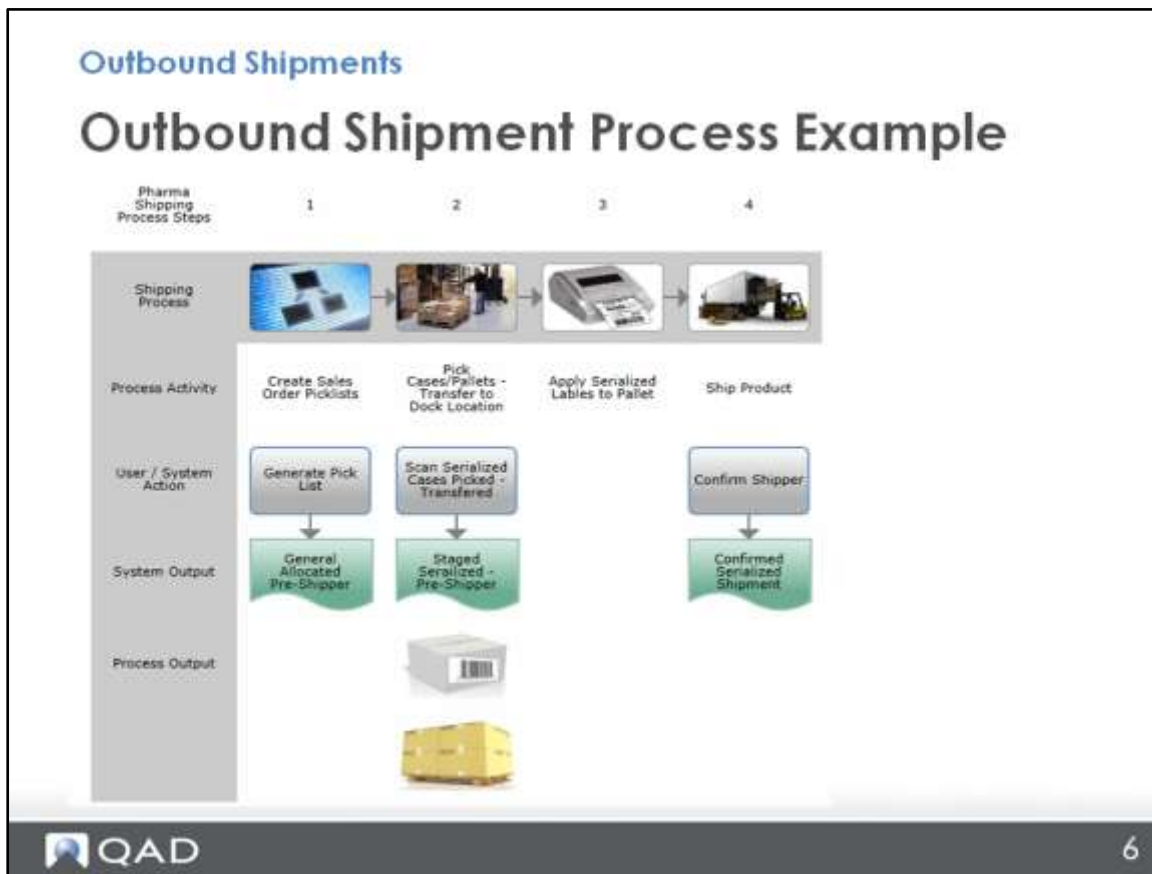
Outbound Shipment Process Map



Outbound Shipment Process Flow



Outbound Shipment Process Example



Sales Order Serial Booking

Outbound Shipments

Sales Order Serial Booking

- Capture serial numbers for use on specific sales orders.
- Ensure serial numbers comply with predefined serial mask.
- Ship only booked serial IDs for SO line.
- Group SOs by sold-to, purchase order, and item
 - So that multiple destinations for one customer can use the same serial bookings.



Use SO/RMA Serial Booking (7.1.20) to capture serial numbers for use on specific sales orders and make sure that all those serial numbers comply with the predefined serial mask.

The sales order shipment ships only booked serial IDs for the sales order line.

You can group sales orders by sold-to, purchase order, and item, so that multiple ship-tos for a single customer can use the same serial bookings.

Sales Order Serial Booking

Outbound Shipments

Sales Order Serial Booking

SORMA Serial Booking

Go To Actions Copy Print Preview Attach

RMA/Sales Order: 10S10040 Line: 1
 Sold-To: 10c1002 Ship-To: 10c1002 Site: 10-500
 Item Number: 05002 Pills, 50 Tab
 Quantity Ordered: 24.0 EA Purchase Order:
 Individual Booking: Line:

Booking Data			
Serial ID Required:	31	Serial ID Used:	0
Serial ID Booked:	1	Serial ID Open:	1

From Serial: P502QM1545000000002
 To Serial: P502QM1545000000031

Validate based on the serial ID range

QAD 8

When making serial ID bookings, the system assigns a range of serial IDs to the order based on the packaging hierarchy that you define in the system.

If you select the Individual Booking field, you can specify the serial IDs range manually by entering the From serial ID and the To serial ID. The system validates them based on the setting of the serial ID range.

Sales Order Serial Booking

Outbound Shipments

Sales Order Serial Booking

Sales Order Browse

Search (Order = 10510040)

Viewing 1 - 1 of 1 Records per page: 100

Order	Sold-To	Status	Line	Item Number	UM	Qty Ordered	Qty Open	Due Date	Qty Shipped
10510040			002	EA		34.0	34.0	11/03/18	

Reserved Serial ID

Serial ID	Item Number	Description	Site	Location	Sales Order Number
PS02QM1545000000002	10-500		10-500		10510040
PS02QM1545000000003	10-500		10-500		10510040
PS02QM1545000000004	10-500		10-500		10510040
PS02QM1545000000005	10-500		10-500		10510040

QAD 9

View the booked serial IDs in Sales Order Browse by right-clicking the order number and choosing Reserved Serial ID from the drop-down menu.

The stages of the serial IDs are Booked.

Shipping Process

Outbound Shipments

Shipping Process

- Create a pre-shipper/shipper
- Pick unit packs, assembly packs, or items
- Build picked packs
- Load truck
- Confirm shipment



```

graph TD
    Active[Active] --> Picked[Picked]
    Picked --> Consumed[Consumed]
          
```



Stage change

- Picking: Active -> Picked
- Confirm Shipment: Picked -> Consumed


10

Shipping process steps:

1. Create a pre-shipper or shipper with Picklist/Pre-shipper–Automatic or Pre-Shipper/Shipper Workbench.
2. Pick unit packs, assembly packs, or items.
3. Build picked packs, or pick packs and then build them.
4. Load master packs with Truck Load.
5. Confirm shipment: Consume packs and create history records for tracking and tracing.

Stage change:

- Picking: From Active to Picked
- Confirm shipment: From Picked to Consumed

Picklist/Pre-Shipper–Automatic

Outbound Shipments

Picklist/Pre-Shipper–Automatic

- Displays the proposed packaging units to Pick. For information purposes only.
- Inventory is allocated, but not picked.

Ship To: 10c1002
Houston Automotive Group
801 Louisiana, Suite 700
Houston, TX 77002
USA - TAX PURPOSE

PICKLIST / PRE-SHIPPER
Pre-Shipper: PS1105150002 Page: 1
Print Date: 11/05/15

Sales Order: 10510041 Order Date: 11/04/15 Ship To PD:
Ship Via: FEDEX

Ln	Item Number	Site	Lot/Serial	Qty	Due
		T Location	Ref	Open	Shipped
1	05002	10-500			
	Pills, 50 Tab				
		050	05002-1008	24.0 EA	11/05/15
		050	05002-1009	18.0 ()	
				6.0 ()	

Pack Code	Number
PL01	1


When you use Picklist/Pre-Shipper–Automatic (7.9.1) to generate a picklist or pre-shipper, the system displays the proposed packaging units to pick. It is for information purposes only.

Picklist/Pre-Shipper–Automatic

Outbound Shipments

Picklist/Pre-Shipper–Automatic

Allocated Inventory Inquiry Allocated Inventory Inquiry - 11. X



Allocated Inventory Inquiry

11/05/15

Item Number	Site	Location	Lot/Serial	Status	Output PAGE
05002	10-500				
Site Summary					
Avail Status					
Description	Site	Qty On Hand	UM	Qty Allocated	Unallocated
Pills, 50 Tab	10-500	86.0	EA	72.0	14.0
T Order	Line/ID	Location	Lot/Serial	Qty Alloc	Picked
so 10510040	1	050	05002-0929	18.0	0.0
			05002-1008	6.0	0.0
so 10510041	1	050	05002-1008	18.0	0.0
			05002-1009	6.0	0.0
so 10510042	1			24.0	
				72.0	0.0

3.18
Allocated Inventory Inquiry
icpliq02.p

The system allocates the inventory and does not pick them until you process the picking.

Pre-Shipper/Shipper Picking

Outbound Shipments

Pre-Shipper/Shipper Picking

- Pick unit packs, assembly packs, or item serial IDs in warehouse location.
- Pick one pack for a single SO line or multiple SO lines.
- Changes pack stage to Picked. Track order information for all packs.
- Decreases picklist qty when pack is picked.
- Transfer picked packs to a shipping area.
- Inventory is picked.



Use Pre-Shipper/Shipper Picking (7.8.1) to pick serial IDs for a pre-shipper/shipper and link them with specific SO lines or customer scheduled order lines.

You can pick unit packs, assembly packs, or item serial IDs at the warehouse location. You can pick one pack for a single sales order line or for multiple sales order lines. You can transfer picked packs to a shipping area location.

When a pack is picked, the system changes the pack stage to Picked and decreases the quantity on the picklist.

You can track order information for all packs.

Pre-Shipper/Shipper Picking

Outbound Shipments

Pre-Shipper/Shipper Picking

Pre-Shipper/Shipper Picking X

Go To Actions Copy Print Preview Attach

Ship-From ID: 10-500 Pharmaceutical Mfg Site

Pre-Shipper/Shipper: Pre-Shipper

Number: P51105150002

Ship-To/Dock: 10c1002 Houston Automotive Group
801 Louisiana, Suite 700

Shipping Group:

Inventory Movement Code:

Merge Other Pre-Shippers:

Serial ID: P502QM1541000000017

Stage: Picked

Item Number: 05002 Pills, 50 Tab

Quantity In Pack: 24.0 EA Site: 10-500

Printed Location: 050

Lot/Serial: 05002-1009

Sales Order: 10510041 Line: 1 Purchase Order:

Item Number: 05002 Open Quantity: 24.0 EA

Quantity to Pick: 24.0 EA Quantity Picked: 0.0 EA

QAD 14

Enter the serial ID or scan the serial ID from the label to pick the unit pack, assembly pack, or loose item for the pre-shipper or shipper.

You can pick one pack for a single sales order line or for multiple sales order lines.

Pre-Shipper/Shipper Picking

Outbound Shipments

Pre-Shipper/Shipper Picking

Pre-Shipper/Shipper Picking X

Go To Actions Copy Print Preview Attach

Serial ID: P502QM1541000000017
Stage: Picked
Item Number: 05002 Pills, 50 Tab
Quantity In Pack: 24.0 EA Site: 10-500
Printed: Location: 050
Lot/Seriel: 05002-1006
Reference

Transfer To Site: 10-500 Location: 100
Effective Date: 11/5/2015 Remarks:

QAD 15

Enter a shipping location to transfer picked packs to this shipping area.

Pre-Shipper/Shipper Picking

The screenshot displays the QAD Pre-Shipper/Shipper Picking interface. It features a main window titled "Pre-Shipper/Shipper Inquiry" and a smaller "Pre-Shipper/Shipper Workbench" window overlaid on top.

Pre-Shipper/Shipper Inquiry Window:

- Header: Outbound Shipments, Pre-Shipper/Shipper Picking
- Ship-From ID: 10-500, Pharmaceutical Mfg Site
- Pre-Shipper/Shipper Number: PS1105150002, Output: PAGE
- Ship-To/Dock: 10c1002, Houston Automotive Group
- Master Bill ID: , Status: , Inventory Movement Code:

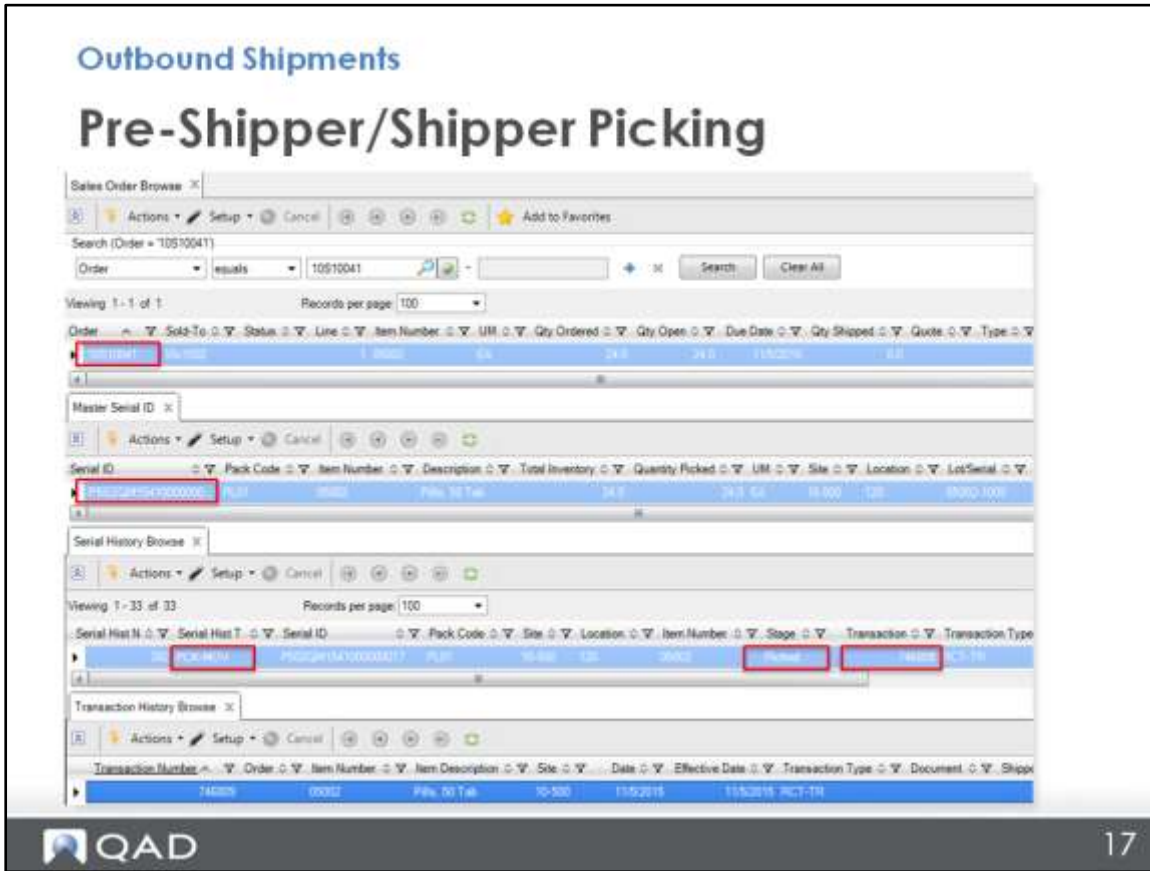
Pre-Shipper/Shipper Workbench Window:

Shipper Workbench

Level	Order	Ln	Item Number	Quantity	UM	Container	Canc	B/D
	Pre-Shipper: 10-500/PS1105150002 Ship-To: 10c1002							
Pending Pick								
.1	10510041	1	05002	24.0	EA		no	
Picked								
.1			PL01	1.0	PL			PS02QM1541000000017
.2			BX01	1.0	BX			PS02QM1541000000013
.3	10510041	1	05002	6.0	EA		no	

After SO picking, in the Pre-shipper/Shipper Inquire (7.9.3) and Pre-Shipper/Shipper Workbench (7.9.2), you can see two sections: Pending Pick and Picked. The Pending Pick section displays information in the same way as before SO picking. The Picked section displays serial IDs of all picked packs and loose serialized items.

Pre-Shipper/Shipper Picking




After picking, the system changes the pack stage to Picked and decreases the pending pick quantity on the picklist or shipper.

View the serial IDs in Sales Order Browse by right-clicking the sales order number and choosing Master Serial ID from the drop-down menu. You can then view the serial history information by right-clicking the serial ID and choosing Serial History Browse from the drop-down menu.

Pre-Shipper/Shipper Picking

Outbound Shipments

Pre-Shipper/Shipper Picking



Pre-Shipper Report
10USA USD

Page 1 / 1
11/5/2015
5:12:01 PM

ID	Ship To	Inventory Movement Code	Ship From
PS1105150002	10c1002 Houston Automotive Group		10-500 Pharmaceutical Mfg Site

Pending Pick

Level	Type	Item	UM	EA	Site	Ship Date	Qty to Ship
1	Item	05002 Pils. 50 Tab			10-500	11/5/2015	24.00
		Sales Order 10510041	Line 1			Due Date 11/5/2015	Open Quantity 24.00
		Order				Cast Ref	Model Year

Picked

Master Serial ID	Item	UM	EA	Site	Ship Date	Qty to Ship	
PS02QM1541000000017	05002 Pils. 50 Tab			10-500	11/5/2015	24.00	
		Sales Order 10510041	Line 1			Due Date 11/5/2015	Open Quantity 24.00
		Order				Cast Ref	Model Year

End of Report


18

Use Pre-shipper/Shipper Report (75.10.13.5) to display the picked pack information and you can see that the master serial IDs are listed.

Pre-Shipper/Shipper Pack Build

Outbound Shipments

Pre-Shipper/Shipper Pack Build

- Build packs for a specific pre-shipper/shipper
 - Build or remove picked packs to or from shipping pallets
 - Build or remove inventory to or from picked packs
 - Build multiple items in one unit pack
 - Supports non-serialized loose inventory
- Combines picking and packing
- No transfer compared to picking
- Pack stage is still Picked. Track order information for all packs.
- Inventory is still picked

Use Pre-Shipper/Shipper Pack Build (7.8.2) to build packs for a specific pre-shipper/shipper. You can pack picked packs, pack directly without picking, or configure a picked pack.

The pack stage is still Picked.

Pre-Shipper/Shipper Pack Build

Enter or scan the serial IDs to pick and build a pack for an existing shipping pallet. If the shipping pallet is already in the shipping area, the system automatically transfers child packs to the shipping area location.

You may transfer the pack to the shipping area first and then pack it.

To create a new assembly pack for the pre-shipper/shipper, in the Parent Pack frame, leave the Serial ID field blank and specify a pack code. The system generates a serial ID automatically based on site, address, transaction type (ISS-SO), item, and pack code, or picks from booked serial IDs. Alternatively, you can manually enter a nonexistent serial ID and specify a pack code. The system validates the serial ID based on the sequence ID determined by the site, address, transaction type, and pack code.


You can build the same inventory to the picked unit pack or build multiple items to one unit pack. This feature is only supported in Pre-shipper/Shipper Pack Build.

Pre-Shipper/Shipper Pack Build

Outbound Shipments

Pre-Shipper/Shipper Pack Build

Page 1 / 4
11/5/2015
5:46:25 PM



Serialized Inventory Report


10USA USD

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500		05002 Pills, 50 Tab	05002-1008		24.00	24.00	0.00	EA

Qty	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1541000000001	BX01	Picked	6.00	EA
1	P502QM1541000000002	BX01	Shipper PS1105150003	6.00	EA
1	P502QM1541000000003	BX01	Picked	6.00	EA
1	P502QM1541000000004	BX01	Shipper PS1105150003	6.00	EA
Total				24.00	EA

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500		05002 Pills, 50 Tab	05002-1008		24.00	24.00	0.00	EA

Qty	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1541000000002	PL01	Picked	4.00	BX
2	P502QM1541000000001	BX01	Shipper PS1105150003	6.00	EA
2	P502QM1541000000002	BX01	Aggregated	6.00	EA
2	P502QM1541000000003	BX01	Aggregated	6.00	EA
2	P502QM1541000000004	BX01	Aggregated	6.00	EA
Total				24.00	EA


21

Pre-Shipper/Shipper Pack Build

The screenshot shows the 'Outbound Shipments' interface for 'Pre-Shipper/Shipper Pack Build'. The window title is 'Pre-Shipper/Shipper Pack Build'. The interface includes a menu bar with 'Go To', 'Actions', 'Copy', 'Print', 'Preview', and 'Attach'. Below the menu bar, there are sections for 'Parent Pack' and 'Child Pack'. The 'Parent Pack' section has fields for 'Serial ID' and 'Pack Code: BX01'. The 'Child Pack' section has fields for 'Serial ID', 'Stage', and 'Item Number: 05002'. Below these are fields for 'Quantity: 0.0 EA', 'Printed: ', 'Site: 10-500', 'Location: 050', 'Lot/Serial: 05002-1106', and 'Reference:'. At the bottom, there are fields for 'Sales Order: 10510043', 'Line: 1', 'Purchase Order:', 'Item Number: 05002', 'Open Quantity: 24.0 EA', 'Quantity to Pick: 6.0 EA', and 'Quantity Picked: 0.0 EA'. The QAD logo is in the bottom left corner, and the number '22' is in the bottom right corner.

You can pick the serialized or non-serialized inventory by leaving the parent and child pack serial ID fields blank. Specify the item number, select the sales order number, and then enter the quantity that you are picking.

Pre-Shipper/Shipper Pack Build

Outbound Shipments

Pre-Shipper/Shipper Pack Build

Pre-Shipper/Shipper Print Pre-Shipper/Shipper Print - 11/...

QMI -USA Division
 30 Ridgedale Avenue
 East Hanover, NJ 07950
 USA - TAX PURPOSE

P R E - S H I P P E R

Pre-Shipper ID: P51105150004
 Ship Date: 11/05/15
 Print Date: 11/05/15
 Page: 1

Sold To: 10C1002

Houston Automotive Group
 801 Louisiana, Suite 700
 Houston, TX 77002
 USA - TAX PURPOSE

Ship To: 10C1002


Houston Automotive Group
 801 Louisiana, Suite 700
 Houston, TX 77002
 USA - TAX PURPOSE

Ship Via: FE0X
 FDB Point:
 Total Pallets: 0

Mode of Transport:
 Carrier Shipment Ref: P51105150004
 Vehicle ID:

Item Number	Serial ID	PO Number	Qty Shipped UM
05002			
Pending Pick			12.00 EA
Picked			
P502QM1545000000134			6.00 EA
P502QM1545000000135			6.00 EA
P502QM1545000000136			6.00 EA
P502QM1545000000137			6.00 EA
		Cumulative Qty Shipped	36.00 EA

Sales Order: 10510043 Line: 1


23

Pre-Shipper/Shipper Pack Build

Outbound Shipments

Pre-Shipper/Shipper Pack Build

Pre-Shipper/Shipper Workbench

Go To - Actions - Copy - Print - Preview - Attach -

Shipper Workbench

Level	Order Ln	Item Number	Quantity	UM	Container	Canc	B/D
Pre-Shipper: 10-500/PS1105150004 Ship-To: 10c1002							
Pending Pick							
.1	10510043 1	05002	12.0 EA			no	
Picked:							
.1		BX01	1.0 BX	P502QM1545000000136			
.2	10510043 1	05002	6.0 EA			no	
.1		BX01	1.0 BX	P502QM1545000000137			

Add Options:

- 1 - Add Item
- 2 - Add New Container
- 3 - Add New Container (plus contents)
- 4 - Add Existing Container
- 5 - Pick Package
- 6 - Pick Package and Pack

Please select a function.

OK Cancel

QAD 24

Picking and packing are also supported in Pre-Shipper/Shipper Workbench.

Truck Load

Outbound Shipments

Truck Load

- Identify which master packs have been loaded in a truck
- Can happen before or after the shipper is confirmed
- Not change pack stage
- Not create inventory transaction

Use Truck Load (7.8.4) to identify which master packs or loose serialized items have been loaded into a truck. The system verifies that all master packs or loose serialized items linked with the pre-shipper/shipper have been physically loaded into the truck. Non-serialized loose inventory of an SO pre-shipper/shipper cannot be truck loaded.

Truck Load

Outbound Shipments

Truck Load

Truck Load X

Go To Actions Copy Print Preview Attach

Ship-From: 10-500
 Pre-Shipper/Shipper: Pre-Shipper
 Shipper Number: PS1105150003

Ship-to ID: 10c1002

Total Packs: 1.0 Packs Loaded: 0.0

Serial ID: P502QM1545000000032

Truck Load Shipper Browse X

Actions Setup Cancel Add to Favorites

Search (Ship-From ID >= 10-500)

Viewing 1 - 3 of 3 Records per page: 100

Ship-From ID	Type	Shipper ID	Ship-to ID	Name	Total Master Packs	Loaded Master Packs	In Process	City
10-500	Pre-Shipper	PS1105150002	10c1002	Houston Automotive	1	1	Complete	Houston
10-500	Pre-Shipper	PS1105150003	10c1002	Houston Automotive	1	1	Complete	Houston
10-500	Pre-Shipper	PS1105150004	10c1002	Houston Automotive	1	1	Complete	Houston

QAD 26

Enter the serial ID of the master pack or loose item to load into the truck. After you enter the serial ID of the master pack, the system updates the value of Packs Loaded.

The system determines whether there are master packs or loose item serial IDs that are not loaded yet. If there are, the system displays a message prompting to display the master packs not loaded.

Truck Load

Outbound Shipments
Truck Load

Pre-shipper/Shipper Truck Load

Search (Shipper ID = PS1105150004)

Shipper ID: PS1105150004

Viewing 1 - 1 of 1 Records per page: 100

Ship-From ID	Type	Shipper ID	Ship-to ID	Name	Total Master Packs	Loaded Master Packs	In Process
101002	Pre Shipper	PS1105150004	101002	Houston Automotive Group	1	1	Complete

Truck Load Serial Browse

Serial ID: P502QM154500000136

View Downstream Pack

Viewing 1 - 4 of 4 Records per page: 100

Serial ID	Parent Serial ID	Pack Code	Item Number	Item Description	Lot/Serial	Quantity In Pack	Reference
P502QM154500000137	P502QM15450000001	EX01	05002	Pills, 50 Tab	05002-1106	1	0.0
P502QM154500000134	P502QM15450000001	EX01	05002	Pills, 50 Tab	05002-1106	1	0.0
P502QM154500000135	P502QM15450000001	EX01	05002	Pills, 50 Tab	05002-1106	1	0.0
P502QM154500000136	P502QM15450000001	EX01	05002	Pills, 50 Tab	05002-1106	1	0.0

QAD 27

View the loaded packs in the collection of Pre-shipper/Shipper Truck Load:

- Total Master Packs
- Loaded Master Packs
- In Process
- Loaded flag

Shipping Data Maintenance

Outbound Shipments

Shipping Data Maintenance

Shipping Data Maintenance X

Go To Actions Copy Print Preview

Serial ID: P5020M154800000017

Stage: Picked

Item Number: 05002 Pkts: 50 Tab

Avail Pack Qty: 24.0 EA Size: 10.500

Serial ID Picked: Location:

Lot/Serial: 05002-1119

Reference:

Net Weight: 0.48 KG Volume: CM

Tare Weight: 31.20 KG

Gross Weight: KG

QAD 28

Use Shipping Data Maintenance (7.8.6) to record actual measured logistics data of a master pack or loose serialized item linked with a pre-shipper/shipper. This function does not provide you with the ability to maintain the weight of non-serialized loose inventory linked with a pre-shipper/shipper.

Move Pack between (Pre-)Shippers

Outbound Shipments

Move Pack between (Pre-)Shippers

- Move pack between pre-shippers/shippers due to full truck
- Source and destination pre-shipper/shipper have the same ship-from and ship-to
- Can move to a new pre-shipper/shipper
- Can move loose serialized items associated with the source pre-shipper or shipper
- Cannot move the pre-shipper/shipper linked to non-serialized loose inventory

When the truck arrives, it may not have enough capacity to load all the materials. To avoid unpicking remaining packs from the pre-shipper or shipper and losing track of the goods picked for a specific ship-to/order line, you can move pack between pre-shippers/shippers. Use Move Pack between (Pre-) Shippers (7.8.12) to transfer the picked inventory from a source pre-shipper/shipper to an existing one for the same ship-from and ship-to combination or to a new destination pre-shipper/shipper.

Non-serialized loose inventory linked with a pre-shipper/shipper cannot be moved.

Move Pack between (Pre-)Shippers

Outbound Shipments

Move Pack between (Pre-)Shippers

Serialized Inventory Report

10USA USD

Page 1 / 3
11/24/2015
10:43:24 AM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500		05002 Pils, 50 Tab	05002-1119		48.00	48.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502GM1548000000017	PL01	Picked	4.00	BX
			Shipper PS1123150004		
2	P502GM1548000000018	BX01	Aggregated	6.00	EA
2	P502GM1548000000019	BX01	Aggregated	6.00	EA
2	P502GM1548000000019	BX01	Aggregated	6.00	EA
2	P502GM1548000000020	BX01	Aggregated	6.00	EA
Total				24.00	EA
1	P502GM1548000000008	BX01	Picked	6.00	EA
			Shipper PS1123150003		
1	P502GM1548000000009	BX01	Picked	6.00	EA
			Shipper PS1123150003		
1	P502GM1548000000010	BX01	Picked	6.00	EA
			Shipper PS1123150003		
1	P502GM1548000000011	BX01	Picked	6.00	EA
			Shipper PS1123150003		
Total				24.00	EA

30

The report displays two picked pre-shippers before pack move.

Move Pack between (Pre-)Shippers

Outbound Shipments

Move Pack between (Pre-)Shippers

Move Pack between (Pre-)Ship... x

Go To Actions Copy Print Preview Attach

Ship-From ID: 10-500 Pharmaceutical Mfg Site

Pre-Shipper/Shipper: Pre-Shipper

Number: PS112315003

Ship-to ID: 10CT002 Houston, Au 801 Louisiana

Shipping Group: Inventory Movement Code

Destination pre-shipper/shipper

Serial ID from source pre-shipper/shipper

Serial ID: PS02QM154800000017

Stage: Picked

Item Number: 05002 Pils: 90 Tab

Quantity In Pack: 24.0 EA Site: 10-500

Printed: Location:

Order Number: 10510044 Lot/Serial: 05002-1119

Line: 1 Reference:

Source Pre-Shipper/Shipper: PS1123150004

Type: Pre-Shipper

Confirm to move

Yes No

QAD 31

The destination pre-shipper or shipper can be either an existing pre-shipper/shipper or a new one. If you leave the Number field blank, the system can automatically produce a pre-shipper or shipper number. You can specify the serial ID for a picked pack or a loose serialized item associated with the source pre-shipper or shipper.

Move Pack between (Pre-)Shippers

Outbound Shipments

Move Pack between (Pre-)Shippers

Serialized Inventory Report

10UGA USD

Page 1 / 3
11/24/2015
10:51:49 AM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500		05002 Pills, 50 Tab	05002-1119		48.00	48.00	0.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1548000000017	PLB1	Picked	4.00	BX
			Shipper: P81123150003		
2	P502QM1548000000016	BX01	Aggregated	6.00	EA
2	P502QM1548000000018	BX01	Aggregated	6.00	EA
2	P502QM1548000000019	BX01	Aggregated	6.00	EA
2	P502QM1548000000020	BX01	Aggregated	6.00	EA
Total				24.00	EA
1	P502QM1548000000008	BX01	Picked	6.00	EA
			Shipper: P81123150003		
1	P502QM1548000000009	BX01	Picked	6.00	EA
			Shipper: P81123150003		
1	P502QM1548000000010	BX01	Picked	6.00	EA
			Shipper: P81123150003		
1	P502QM1548000000011	BX01	Picked	6.00	EA
			Shipper: P81123150003		
Total				24.00	EA

32

After pack move, the source pre-shipper number becomes the destination pre-shipper number.

Move Pack between (Pre-)Shippers

Outbound Shipments

Move Pack between (Pre-)Shippers

Pre-Shipper/Shipper Inquiry | Pre-Shipper/Shipper Inquiry - 1.. X

Pre-Shipper/Shipper Inquiry
11/23/15

Ship-From ID: 10-500 Pharmaceutical Mfg Site
 Pre-Shipper/Shipper: Pre-Shipper
 Number: PS1123150003 Output: PAGE

Ship-To/Dock: 10C1002 Houston Automotive Group Status:
 Master Bill ID: Inventory Movement Code:

ID	Item Number	PO Number	Order	Line	To
Site	Location	Lot/Serial	Ref	Stat	Ship
		Model Year			
PS1123150003				0	1.0
Picked					
Serial ID: PS02QM1548000000008					
.I	05002		10510044	1	6.0
10-500		05002-1119			EA
Serial ID: PS02QM1548000000009					
.I	05002		10510044	1	6.0
10-500		05002-1119			EA
Serial ID: PS02QM1548000000010					
.I	05002		10510044	1	6.0
10-500		05002-1119			EA
Serial ID: PS02QM1548000000011					
.I	05002		10510044	1	6.0
10-500		05002-1119			EA
Serial ID: PS02QM1548000000017					
.I	05002		10510044	1	24.0
10-500		05002-1119			EA

33

Pre-Shipper/Shipper Confirm

Outbound Shipments

Pre-Shipper/Shipper Confirm

- Changes pack stage to Consumed
- Ignores all pending pick lines
- Uses standard inventory transaction
- Links serial history to inventory transaction
- Provides full traceability of shipping history

Use Pre-Shipper/Shipper Confirm (7.9.5) to confirm the shipment. The system changes the pack stage to Consumed.

The system ignores all the pending pick lines, generates the standard inventory transaction, and links serial history to the inventory transaction.


The system provides full traceability of shipping history.

Pre-Shipper/Shipper Confirm

The screenshot displays the 'Outbound Shipments' application window with the 'Pre-Shipper/Shipper Confirm' form. The window title is 'Pre-Shipper/Shipper Confirm' and it includes a menu bar with 'Go To', 'Actions', 'Copy', 'Print', 'Preview', and 'Attach'. The form contains the following information:

- Ship-From ID: 10-500
- Pharmaceutical Mfg Site
- Pre-Shipper/Shipper: Pre-Shipper
- Number: PS1105150002
- Ship-To/Dock: 10c1002
- Houston Automotive Group
- 801 Louisiana, Suite 700
- Ship Date: 11/5/2015
- Effective Date: 11/5/2015
- Document:

At the bottom left, there are fields for 'Vehicle ID', 'Ship Time: 00:00', 'Arrive Date', and 'Arrival Time: 00:00'. A 'Convert Pre-Shipper To Shipper' button is present, which, when clicked, displays a 'Shipper Number: SH1105150001'.

 35

Pre-Shipper/Shipper Confirm

Outbound Shipments

Pre-Shipper/Shipper Confirm

Invoice: 2015/CINA000000073

Revision: 0

Page: 1

QMI -USA Division
30 Ridgedale Avenue
East Hanover, NJ 07950

USA - TAX PURPOSE

Bill To: 10C1002B
Houston Automotive Group
801 Louisiana, Suite 700
Houston, TX 77002
USA - TAX PURPOSE

Sales Order: 10510044
Order Date: 11/05/15
Salesperson(s): 105P01
Credit Term: 300
30 days after invoice date
Resale:
Remarks:
Payment Ref:
Tax ID:

I N V O I C E

Invoice: 2015/CINA000000073

Revision: 0

Page: 1

Invoice Date: 11/05/15
Print Date: 11/05/15

Sold To: 10C1002
Houston Automotive Group
801 Louisiana, Suite 700
Houston, TX 77002
USA - TAX PURPOSE

Ship Date: 11/05/15
Purchase Order:
Ship To: 10C1002
Ship Via: FEDEX
SOL: SH1105150003
FOB Point:

Item Number	UH	Shipped	Qty	B/O	Tax	Original Price	Extended Price
05002	GA	6.0		0.0	No	7.98	47.88
Pills, 50 Tab							
Lot/Serial Numbers Shipped: Qty Expire Reference							
09002-1106 6.0 02/03/16							
P502QM1545000000033							
P502QM1545000000034							
P502QM1545000000035							
P502QM1545000000036							

Invoice History Browse

Search (Order = 10510044)

Order equals 10510044

Viewing 1 - 1 of 1 Records per page 100

Invoice Order Sold-To Invoice Date

2015/CINA000000073 1051004 10C1002 11/05/15

Item Serial ID

Viewing 1 - 5 of 5 Records per page 100

Shipper ID	Item Serial ID	Item	ListSerial
SH1105150003	P502QM1545000000033	05002	05002-1106
SH1105150003	P502QM1545000000034	05002	05002-1106
SH1105150003	P502QM1545000000035	05002	05002-1106
SH1105150003	P502QM1545000000036	05002	05002-1106
SH1105150003	P502QM1545000000037	05002	05002-1106
SH1105150003	P502QM1545000000038	05002	05002-1106

36

The system prints the item serial IDs on the sales order invoice and you can track the item serial IDs in Invoice History Browse.

Pre-Shipper/Shipper Confirm

The screenshot displays the QAD software interface for 'Outbound Shipments' with the title 'Pre-Shipper/Shipper Confirm'. It shows three main sections:

- Sales Order Browse:** A search bar with 'Order' set to 'equals' and '1051004'. Below it, a table lists sales orders. The first row is highlighted with a red box around the 'Sales Order Number' field.
- Pre-Shipper/Shipper:** A table listing shippers. The first row is highlighted with a red box around the 'Shipper' field.
- View Downstream Pack:** A table listing serial IDs. The first row is highlighted with a red box around the 'Master Serial ID' field.

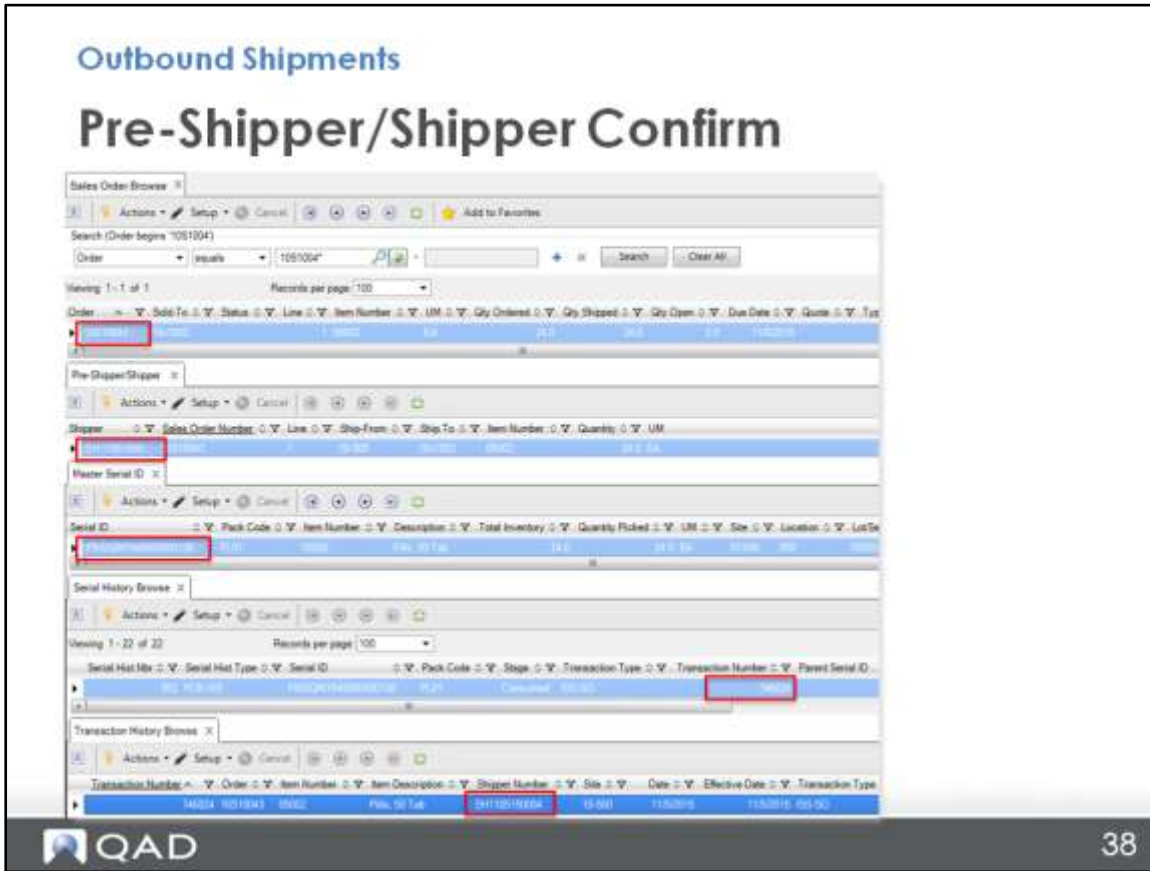
The 'View Downstream Pack' table contains the following data:

Serial ID	Pack Code	Item Number	Item Description	LitSerial	Reference	Quantity in Pack	UM
PS02QM154500000132	BX01	05002	Pills, 50 Tab	05002-1106		6.0	EA
PS02QM154500000134	BX01	05002	Pills, 50 Tab	05002-1106		6.0	EA
PS02QM154500000135	BX01	05002	Pills, 50 Tab	05002-1106		6.0	EA
PS02QM154500000136	BX01	05002	Pills, 50 Tab	05002-1106		6.0	EA

View the pack information in Sales Order Browse by right-clicking the sales order number and choosing Pre-shipper/Shipper from the drop-down menu.

Then, right-click the shipper number and choose Master Serial ID from the drop-down menu.

Pre-Shipper/Shipper Confirm



View the serial history and inventory history in Sales Order Browse by right-clicking the sales order number and choosing Pre-shipper/Shipper from the drop-down menu.

Then, right-click the shipper number and choose Master Serial ID from the drop-down menu.

The system creates the serial history based on the site, location, item, lot/serial, reference, and sales order line.

Pre-Shipper/Shipper Confirm

The screenshot displays the 'Outbound Shipments' application interface for 'Pre-Shipper/Shipper Confirm'. It features three main data views:

- Shipping History Browse Collection:** Shows a single record for a sales order (94113210004) with a ship date of 11/5/2015. The record includes details like ship-to name (Houston, Administrative Group), state (TX), and ship via (FEDEX).
- Shipping History Serial Browse:** A table listing five serials for 'Pills, 50 Tab' (item number 05002). Each serial has a unique ID, pack code (BXD1), quantity (6.0), and unit measure (EA).
- Shipping History Order Browse:** Shows order number 10510043 with one line item (line ID 1) for 'Pills, 50 Tab' with a quantity of 24.0 EA.

The interface includes standard navigation elements like search filters, record counts, and pagination options. The QAD logo and page number '39' are visible at the bottom.

View shipping history and order information in Shipping History Browse Collection.

Shipper Unconfirm

Outbound Shipments

Shipper Unconfirm

- Changes pack stage to Picked
- Generates standard inventory transaction
- Links serial history to inventory transaction
- Provides full traceability of shipping history

Use Shipper Unconfirm (7.9.21) to unconfirm the shipment. The system changes the pack stage to Picked. The system generates the standard inventory transaction and links serial history to the inventory transaction. The system provides full traceability of shipping history.

Shipping Process - Return

Outbound Shipments

Shipping Process - Return

- Picking a consumed pack means to return it
- Return unit packs, assembly packs, or items
- Return packs fully or partially
- Confirm: Reactivates packs and creates history records for tracking and tracing

Consumed

↓

Active




Stage change

- Confirm shipment:
Consumed -> Active


41

Shipping return process steps:

1. Pick a Consumed pack to return it. You can return unit packs, assembly packs, or items. You can return packs fully or partially.
2. Confirm the return: The system reactivates packs and creates history records for tracking and tracing.

After you confirm the shipment, the serial stage changes from Consumed to Active.

Pre-Shipper/Shipper Picking - Return

Outbound Shipments

Pre-Shipper/Shipper Picking - Return

- Pick consumed unit packs, assembly packs, or item serial IDs returned from customers
- Must fully return assembly packs.
 - If only returning part of an assembly pack, enter the unit pack
- Return one unit pack for a single SO line or for multiple SO lines
- Return to the original SO line or a line with negative quantity
- Pack stage remains Consumed



Use Pre-Shipper/Shipper Picking to process the returned unit packs, assembly packs, or item serial IDs from customers. You must fully return assembly packs.

If you only return part of an assembly pack, enter the unit pack. You can return one unit pack for a single sales order line or for multiple sales order lines. You can return to the original sales order line or a line with negative quantity.

The returned pack stage remains Consumed.

Pre-Shipper/Shipper Picking - Return

Outbound Shipments

Pre-Shipper/Shipper Picking - Return

Pre-Shipper/Shipper Picking X

Go To Actions Copy Print Preview Attach

Ship-From ID: 10-500 Pharmaceutical Mfg Site

Pre-Shipper/Shipper: Shipper

Number:

Ship-To/Dock: 10c1002 Houston Automotive Group

Shipping Group:

Inventory Movement Code:

Merge Other Pre-Shipper:

Pre-Shipper/Shipper Picking X

Go To Actions Copy Print Preview Attach

Serial ID: P502QM154500000138

Stage: Consumed

Item Number: 05002 Fills: 50 Tab

Quantity In Pack: -24.0 EA Site: 10-500

Printed: Location: 050

Lot/Serial: 05002-1105

Sales Order: 10S10043 Line: 1 Purchase Order:

Item Number: 05002 Open Quantity: 0.0 EA

Quantity to Pick: 0.0 EA Quantity Picked: 0.0 EA

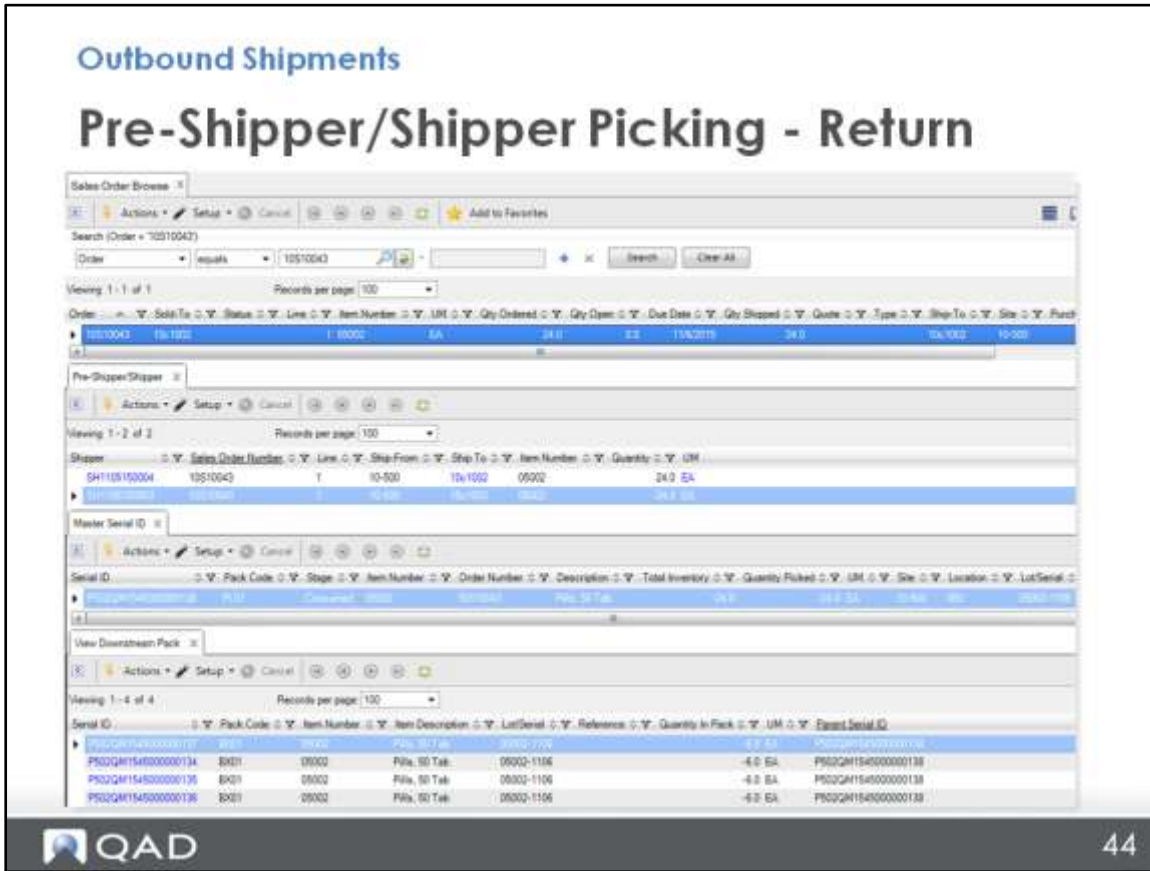
QAD 43

Leave the Number field blank to let the system generate an SO pre-shipper or shipper for return.

Enter or scan the serial ID for a unit pack, assembly pack, or serialized item to fully return. In this case, the stage is the Consumed. If the stage of the serial ID is Aggregated, it means that you can only return a unit pack from an assembly pack or a serialized item from a unit pack.

Select a sales order to link to this return. If the sales order is closed (deleted), create a sales order line with the negative quantity whose total quantity is equal to the returned quantity.

Pre-Shipper/Shipper Picking - Return



To view the returned pack information, in Sales Order Browse, right-click the sales order number and choose Pre-shipper/Shipper from the drop-down menu. Then, right-click the shipper number and choose Master Serial ID from the drop-down menu.

To view the serial history and inventory history, in Sales Order Browse, right-click the sales order number and choose Pre-shipper/Shipper from the drop-down menu. Then, right-click the shipper number and choose Master Serial ID from the drop-down menu.

Pre-Shipper/Shipper Confirm - Return

Outbound Shipments

Pre-Shipper/Shipper Confirm - Return

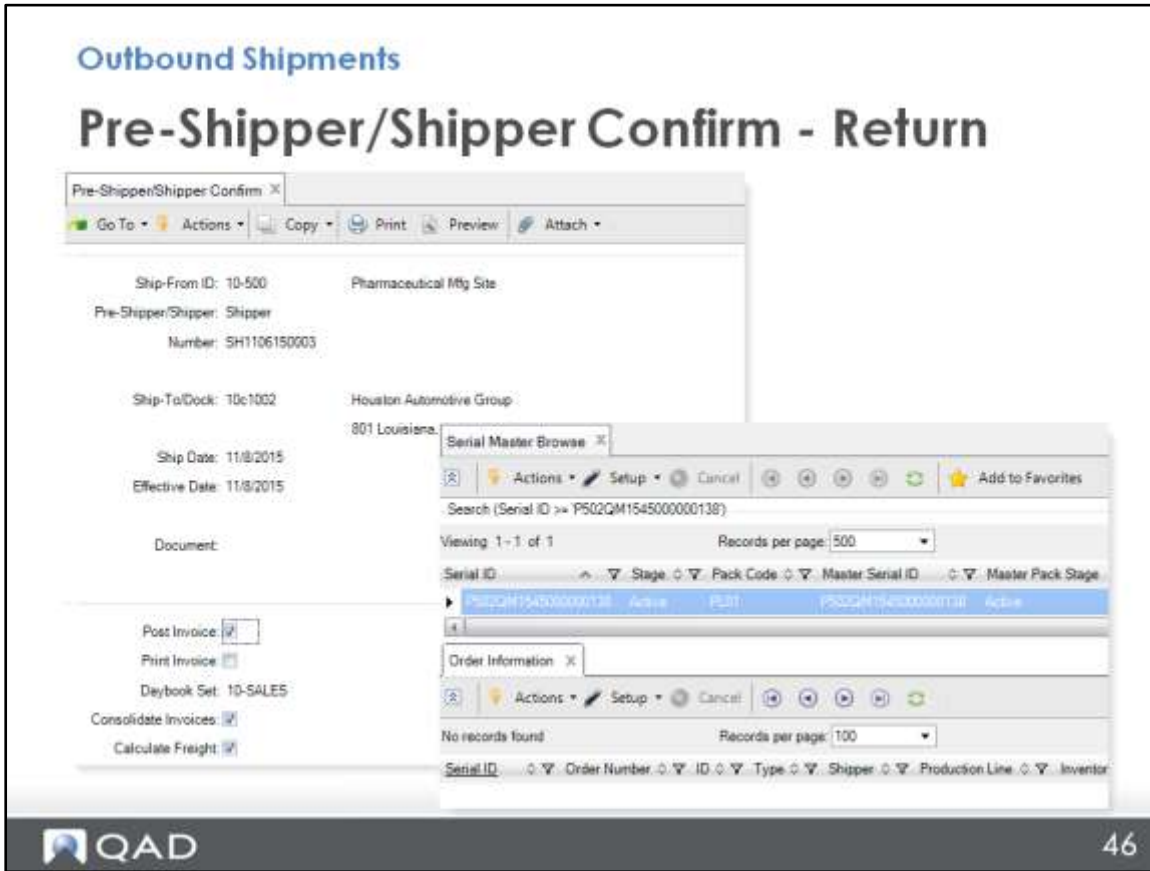
- Changes pack stage to Active
- Unlinks from the sales order line
- Generates standard inventory transaction
- Links serial history to inventory transaction
- Provides full traceability of shipping history

Use Pre-Shipper/Shipper Confirm (7.9.5) to confirm the returns. The system changes the pack stage from Consumed to Active.

The system generates the standard inventory transaction and links serial history to the inventory transaction.

The system provides full traceability of shipping history.

Pre-Shipper/Shipper Confirm - Return



Use the standard Pre-shipper/shipper Confirm function to confirm the pack returns. The returned item serial IDs are printed on the sales order invoice. Returned item serial IDs can be tracked in Invoice History Browse. The system unlinks the pack from the sales order line.

Pre-Shipper/Shipper Confirm - Return

Outbound Shipments
Pre-Shipper/Shipper Confirm - Return

Shipping History Browse Colle... x

Actions Setup Cancel Add to Favorites

Search

Viewing 1 - 5 of 5 Records per page 100

Date	Ship-From	Type	ID	Ship To	Name	City	State	Country
11/8/2015 10-A38	Sales Order	SH110618000	10c1102	Houston Automotive Group	Houston	TX	USA	TA
11/5/2015 10-500	Sales Order	SH1105150004	10c1002	Houston Automotive Group	Houston	TX	USA	TA

Shipping History Serial Browse x

Actions Setup Cancel

Viewing 1 - 5 of 5 Records per page 100

Serial ID	Pack Code	Item Number	Item Description	Quantity in Pack	UM	Lot/Serial
P502QM154500000136	PL01	05002	Pills, 50 Tab	-4.0	EA	05002-1106
P502QM154500000136	BXD1	05002	Pills, 50 Tab	-6.0	EA	05002-1106
P502QM154500000137	BXD1	05002	Pills, 50 Tab	-6.0	EA	05002-1106
P502QM154500000134	BXD1	05002	Pills, 50 Tab	-6.0	EA	05002-1106
P502QM154500000135	BXD1	05002	Pills, 50 Tab	-6.0	EA	05002-1106

Shipping History Order Browse x

Actions Setup Cancel

Order Number	LineID	Item Number	Description	Quantity Shipped/Received	UM
10911043		05002	Pills, 50 Tab	-34.0	EA

QAD 47

Use Shipping History Browse Collection to review the shipping serial and order history.

Serial Usage Export

Outbound Shipments

Serial Usage Export

- Exports consumed serial IDs when the requirement of an SO line is fulfilled
- Exports unused serial IDs if serial IDs are booked for the SO line
- Triggers outbound QDocs to notify the customer which serial IDs are used/unused
- Report mode to view the usage report before exporting outbound QDoc

Use Serial Usage Export (3.17.20) to export unused and consumed serial IDs when the SO (or customer scheduled order) is shipped and the SO Shipper is confirmed. You can export when you book a range of serial IDs for a particular SO line after you close the SO, or the system fulfills the order line.

You run Serial Usage Export function to trigger outbound QDocs that notify the customer which serial IDs are used or not and to view the usage report before you export the outbound QDoc.

Serial Usage Export

Outbound Shipments

Serial Usage Export

Page 1 / 1
11/6/2015
10:37:27 AM

Serial Usage Export - Viewer X
Filter | Viewer

New Filter Open Save Save As Delete Settings Layout Schedule Document Run

Search Conditions

Sales Order	equals	10S10045					
Line	equals						
Sold-To	equals	10c1002					
Purchase Order	equals						
Item Number	equals	05002					
Export	equals	Yes					

Serial Usage Export

10USA USD

Sales Order	Line	Sold-To	Purchase Order	Item Number	Qty Ordered	UM	Serial ID Used	Serial ID Unused
10S10045	1	10c1002		05002	6.00	EA	0	2

End of Report

serialUsageSample.xml

49

Review

Outbound Shipments

Review

- Outbound Shipment Process Map
- Outbound Shipment Process Flow
- Outbound Shipment Process Example
- Sales Order Serial Booking
- Shipping Process
- Picklist/Pre-Shipper – Automatic
- Pre-Shipper/Shipper Picking
- Pre-Shipper/Shipper Pack Build

Outbound Shipments

Review – Continued

- Pre-Shipper/Shipper Workbench
- Truck Load
- Shipping Data Maintenance
- Move Pack between (Pre-)Shippers
- Pre-Shipper/Shipper Confirm
- Shipper Unconfirm
- Shipping Process – Return
- Serial Usage Export

Exercise: Outbound Shipments

Outbound Shipments

Exercise: Outbound Shipments




51

Part 1

In this exercise, you will create a pre-shipper for a sales order, pick packs, and build or remove packs.

1. Use Customer Scheduled Order Maint (7.3.13) to create a customer schedule order for the customer 10C1002. Write down the order number here _____.

Ship-From	10-500
Item Number	05002
Netting Logic	3

2. Use Required Ship Schedule Maint (7.5.3) to create a five-day RSS for the customer schedule and the quantity for each is 24.

Release ID	1001
Prior Cum Date	Yesterday
Make this schedule active?	Yes

- Use Pack Receipt Unplanned (3.17.13) to receive five full packs of PL01 into inventory. Use Serial Master Browse to review the created serial IDs.

Site	10-500
Location	050
Gen Pack Serial	Yes
Build Pack?	Yes
Parent Pack Serial ID	Blank
BOP Code	05002
Item Number	05002
Number of Full Packs	20
Lot/Serial	05002-1120
Create multiple packs?	Yes

Write down the created assembly pack serial IDs here _____.

- Use Picklist/Pre-Shipper - Automatic (7.9.1) to generate a pre-shipper for next Monday. Notice the proposed packaging units to pick in the picklist.

Due Date	Next Monday
Sales Order	Order number from Step 1
Auto Allocation	Yes
Update	Yes

Write down the pre-shipper number here _____. Use Allocated Inventory Inquire (3.18) to check the allocation status for item 05002. You will see that the system only allocates the inventory for the sales order, but does not pick the inventory.

- Use Pre-Shipper/Shipper Picking (5.13.12.13) to pick packs for the pre-shipper.

Ship-From ID	10-500
Number	Pre-shipper number from the last step
Serial ID	First serial ID from Step 3
Sales Order	Order number from Step 1
Location	120

Use Serial Master Browse to review the serial IDs and notice that the stages now become Picked. Use Pre-shipper/Shipper Inquire (7.9.3) to check the pre-shipper and you will see the picked serial IDs in the report.

6. Use Sales Order Browse (7.1.2) to view the serial IDs by right-clicking the sales order number and choosing Master Serial ID from the drop-down menu. Then, view the serial history information by right-clicking the serial ID and choosing Serial History Browse from the drop-down menu. Alternatively, view the downstream pack by right-clicking the serial ID and choosing View Downstream Pack from the drop-down menu. Write down the parent and downstream pack serial IDs here _____.
7. Use Pre-Shipper/Shipper Pack Build (7.8.2) to remove a child pack from the picked assembly pack.

Ship-From ID	10-500
Number	Pre-shipper number from Step 4
Parent Pack Serial ID	Parent pack serial ID from the last step
Remove it?	No
Child Pack Serial ID	First downstream pack serial ID from the last step
Remove it?	Yes

Use Sales Order Browse to view the downstream pack serial IDs and you will find that one of the serial IDs has been removed.

8. Use Pre-Shipper/Shipper Pack Build (7.8.2) to add the child pack that you removed to the picked assembly pack.

Ship-From ID	10-500
Number	Pre-shipper number from Step 4
Parent Pack Serial ID	Parent pack serial ID from Step 6
Remove it?	No
Child Pack Serial ID	First downstream pack serial ID from Step 6

Use Sales Order Browse to view the downstream pack serial IDs and you will see that the serial ID is now aggregated on the assembly pack.

Part 2

In this exercise, you practice generating a pre-shipper for the following days, building packs, moving packs between pre-shippers, loading trucks, and confirming shippers.

1. Use Picklist/Pre-Shipper - Automatic (7.9.1) to generate a pre-shipper for next Monday. Notice the proposed packaging units to pick in the picklist.

Due Date	Next Tuesday
Sales Order	Order number from Step 1 (Part 1)
Auto Allocation	Yes

Update	Yes
--------	-----

Write down the pre-shipper number here _____. Use Allocated Inventory Inquire (3.18) to check the allocation status for item 05002. You will see that the system only allocates the inventory for the sales order, but does not pick the inventory.

- Use Serial Master Browse to review the second assembly serial ID that was generated in Step 3 of the Part 1 exercise, and write down the aggregated unit pack serial IDs here _____.
- Use Pre-Shipper/Shipper Pack Build (7.8.2) to build a picked assembly pack.

Ship-From ID	10-500
Number	Pre-shipper number from Step 1
Parent Pack Serial ID	Parent pack serial ID from the last step
Child Pack Serial ID	First unit pack serial ID from the last step
Sales Order	Order number from Step 1 in Part 1
Child Pack Serial ID	Second unit pack serial ID from the last step
Sales Order	Order number from Step 1 in Part 1
Child Pack Serial ID	Third unit pack serial ID from the last step
Sales Order	Order number from Step 1 in Part 1
Parent Pack Serial ID	Blank
Pack Code	Blank
Item Number	05002
Location	050
Lot/Serial	05002-1120
Sales Order	Order number from Step 1 in Part 1
Quantity	6

Use Pre-shipper/Shipper Inquire (7.9.3) to check the pre-shipper and you will see the picked serial ID and loose items in the report.

- Use Move Pack between (Pre-) Shippers (7.8.12) to transfer the assembly pack to the pre-shipper that you created in Part 1.
- Use Pre-shipper/Shipper Report (7.5.10.13.5) to display the picked pack information. You can see that the master serial IDs are listed.
- Use Truck Load (7.8.4) to identify all the master packs that have been loaded into a truck. Use Truck Load Shipper Browse (7.8.40) to view the total master packs and loaded master pack information.

7. Use Pre-Shipper/Shipper Confirm (7.9.5) to confirm the pre-shipper.
8. Use Sales Order Browse to view the pre-shipper, serial history, and downstream pack information. Notice that the pack stage is now Consumed.

CHAPTER 9

Cycle Count

Cycle Count

Serialization



Our Passion. Your Advantage.

Cycle Count

Cycle Count

Cycle Count

In this section, you will learn how to:

Identify key business considerations before setting up Serialization in QAD Enterprise Applications

Set up Serialization in QAD Enterprise Applications

- **Process Serialization in QAD Enterprise Applications**

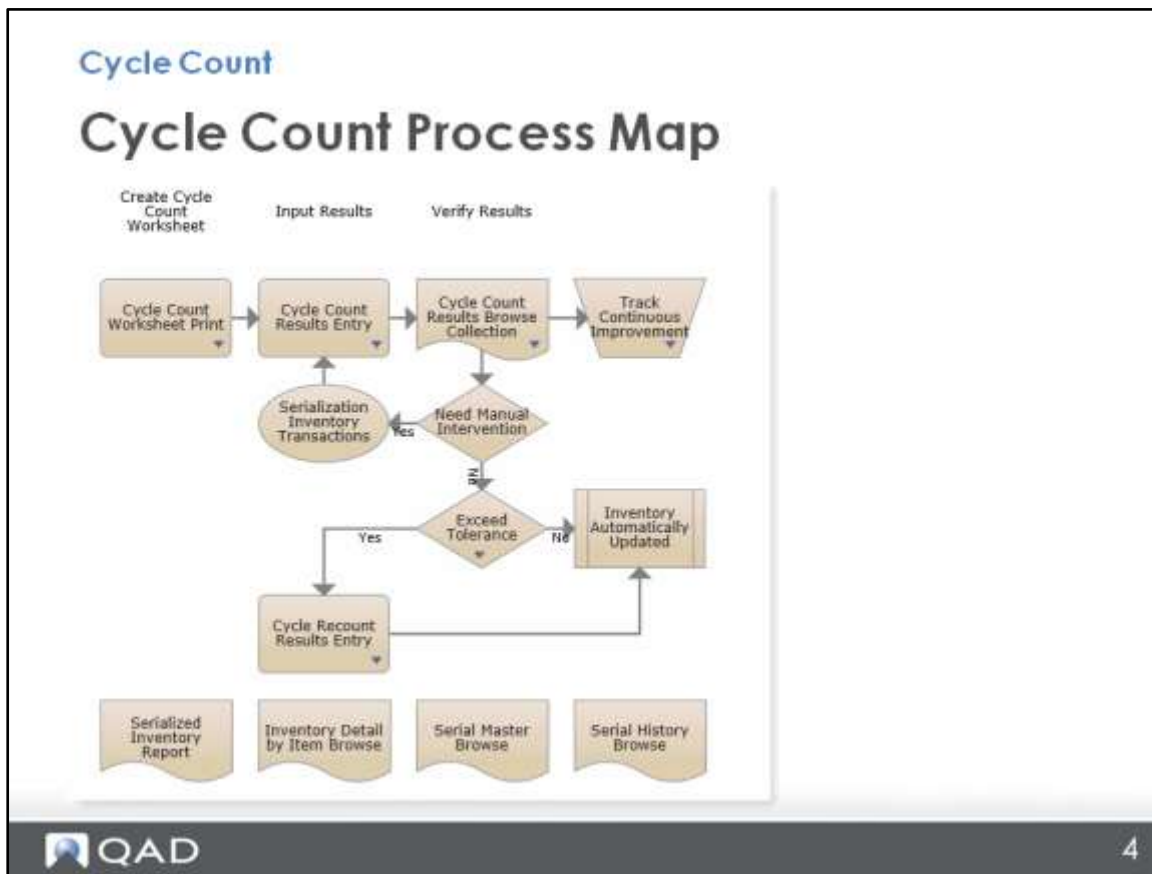
Overview

Cycle Count

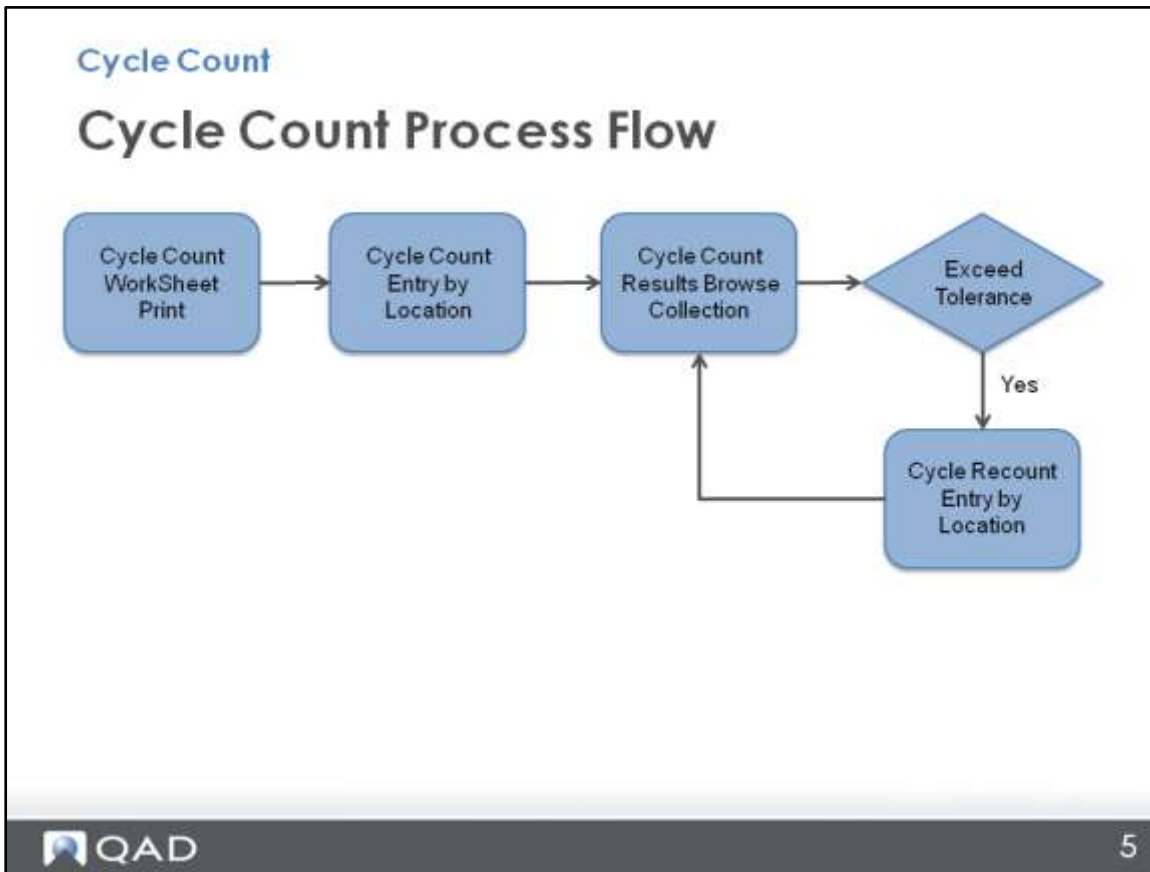
Overview

- Cycle Count Process Map
- Cycle Count Process Flow
- Cycle Count Batch Active Duration
- Cycle Count Worksheet Print
- Cycle Count Entry by Location
- Cycle Count Results Browse Collection
- Cycle Recount Entry by Location

Cycle Count Process Map



Cycle Count Process Flow



Cycle Count Batch Active Duration

Cycle Count

Cycle Count Batch Active Duration


- The time a cycle count batch can remain active after it is created
- Entered in days, hours: minutes
- When you enter cycle count results, the system tries to find an active batch ID based on site, location, and item.
- Cycle count becomes expired if it is not completed in the duration.

Active:

Serial Number Enforcement: Warning

Serial Number Control Limit: 1000

Cycle Count Batch Active (D:H:M): 0 | 08 | 00


6

Enter the time in days, hours: minutes for active cycle count batch processing. Cycle count batch processing can remain active after the system creates the batch to process. Enter a 0 (zero) as the time to indicate that there is no limit on active days. You cannot enter negative numbers.

When you enter cycle count results, the system first attempts to locate an active batch ID based on site/location/item. If a batch ID cannot be found, the system creates a new one. When the system finds an expired batch ID, the system sets the batch ID as expired and creates a new batch ID. When the batch ID is active, the system uses the batch to record cycle count results.

Cycle Count Worksheet Print

Cycle Count Worksheet Print

10,USA USD

Page 1 / 2
12/1/2015
1:09:28 PM

Item	Site Location	Description	ABC	Serial Control	Last Crit	Qty On Hand	UM	Qty Counted	Counted By	Date Counted						
02210	10-200 010	Motor Alarm 8- 24V 3 amp 1 hp	A	Never		50.00	EA	()	()	()						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Pack Code</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PL02</td> <td>5</td> </tr> </tbody> </table>		Pack Code	Number	PL02	5											
Pack Code	Number															
PL02	5															
Lot/Serial	Reference	Loose Qty on Hand	UM	Customer Consignment	Supplier Consignment	Non-Consigned										
		0.00	EA	0.00	0.00	40.00										
	Quantity Counted	()														
	Counted By	()														
	Date Counted	()														
	02210-1201	10.00	EA	0.00	0.00	10.00										
	Quantity Counted	()														
	Counted By	()														
	Date Counted	()														
Item	Site Location	Description	ABC	Serial Control	Last Crit	Qty On Hand	UM	Qty Counted	Counted By	Date Counted						
05004	10-500 050	Pills, 50 Tab	A	Mandatory		23.00	EA	()	()	()						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Pack Code</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Item</td> <td>3</td> </tr> <tr> <td>PL01</td> <td>1</td> </tr> </tbody> </table>		Pack Code	Number	Item	3	PL01	1									
Pack Code	Number															
Item	3															
PL01	1															

7

Use Cycle Count Worksheet Print (3.13.25) to create a worksheet to record the results of cycle count.

When you choose Yes for Print Quantity OH, the system prints the number of packs on the worksheet. The quantity on hand is summarized based on site, location, and item.


If the item is serial controlled, the system displays the number of packs and serialized items. Otherwise, the system displays number of packs and lot/serial detail for non-serialized loose inventory.

Cycle Count Entry by Location

Cycle Count

Cycle Count Entry by Location

- Counts inventory by site, location, and item
 - Master packs
 - Content of master packs
 - Inventory in unit packs
 - Serialized loose inventory
 - Non-serialized loose inventory
- Support
 - Write off missing packs
 - Reactivate missing packs
 - Transfer packs
 - Reactivate shipped packs
- Updates actual inventory balance in tolerance
- Generates serial history and inventory history


8

Use Cycle Count Entry by Location (3.13.13) to count the number of items by site and location. This program counts inventory by serial ID, but does not count or validate package structures.

You can count:

- Packs
- Loose serialized items
- Loose non-serialized items

When you enter a pack serial ID, the system only counts the items matching the entered item when multiple items are in the pack.

For the initial count, when the cycle count completes, the system accepts the count and changes the inventory balance to the quantity counted when:

- There are no problems to manually fix.
- The count matches the system quantity on hand.

- The difference in the count is within predefined error tolerances.

Cycle Count Entry by Location

Cycle Count

Cycle Count Entry by Location

Cycle Count Entry by Location x

Go To Actions Copy Print Preview Attach

Item Number: 05004	Tolerance Method: Qoh
Site: 10-500	Tolerance Percent: 3.00%
Location: 050	Tolerance Amount: 0.00
Description: Pills, 50 Tab	GL Cost: 0.37546
	Last Count:
Cum Expected: 23.0 EA	Qty On Hand: 23.0 EA
Cum Counted: 23.0 EA	

Serial ID: T0500A1911000000029

WARNING: Is cycle count completed?

Yes No

QAD 9

Scan or enter the pack or item serial ID to be counted. If the serial ID that you enter is associated with another location, as long as no open warehousing task exists for this item/site combination, the system still does the count. The system automatically transfers the items to the current location after the batch is closed successfully.

If the serial ID is for a master pack, the system adds the pack to the count list and calculates the lot detail automatically. If the serial ID is for a serialized item and aggregated on an open pack, the system adds the serial ID and the pack to the count list. You can count unit pack contents by scanning or entering the unit pack serial ID twice. You can count the non-serialized loose inventory by leaving the Serial ID field blank.

When you exit from the serial ID, the system lists the missing packs. If the new count is within tolerance, the system updates the quantity on hand with the counted quantity. If the count is not within tolerance, the system registers the count, but does not update the balance.

Cycle Count Results Browse Collection

Cycle Count Results Browse Collection

Search (Last Count Date < 12/1/2015)

Last Count Date: less than Today

Viewing 1 - 1 of 1 Records per page: 100

In Process	Status
Record	Info

Counting History Browse Lot Detail Browse

Viewing 1 - 4 of 4 Records per page: 100

Serial ID	Pack Code	Master Pack S	Quantity In Pack	Quantity Counted	Cause	Manual Inter	Lot/Serial
10500A1511000000007	PL01	Active	4.0	4.0		No	
10500A15110000000026		Active	1.0	1.0		No	05004-1201
10500A15110000000027		Active	1.0	1.0		No	05004-1201
10500A15110000000028		Active	1.0	1.0		No	05004-1201

Counting History Browse Lot Detail Browse

Lot/Serial	Reference	Begin Loc Bal	Quantity Counted	Quantity Change	Amount Change	QOH Var%	Annual Use Var%
05004-1201		23.00	23.00	0.00	0.00	0.00	0.00

QAD 10

Cycle Count Results Browse Collection

The screenshot displays the QAD Cycle Count Results Browse Collection interface. The main window shows a table with columns: Site, Location, Item, Serial Control, Begin Loc Bal, Quantity Counted, Quantity Change, In Process, and Status. A red box highlights the 'In Process' and 'Status' columns. Below this, a 'Counting History Browse' window is open, showing a table with columns: Serial ID, Pack Code, Master Serial ID, Master Pack Stage, Cause, From Site, and From Loc. A red box highlights the 'Cause' column, which contains the value 'Location Mismatch'.

If the counted location is different from the system-recorded location, the system displays the location mismatch for the counting record. After the recount, the system transfers the location to the counted location.

Cycle Count Results Browse Collection

Cycle Count

Cycle Count Results Browse Collection

- Count result determined by In Process and Status

In Process	Status	Scenario
Open	Initial	Open cycle count
Open	Recount	Open cycle recount
Closed	Initial	Closed cycle count in tolerance
Closed	Error	Closed cycle count out of tolerance
Closed	Recount	Closed cycle Recount
Expired	Initial	Expired cycle count
Expired	Recount	Expired cycle recount

Cycle Count Results Browse Collection

Cycle Count

Cycle Count Results Browse Collection

- Cause analysis in count list

Cause	Manual Intervention	Analysis
	No	The Serial ID resides in correct site/location and holds matching item. Normal scenario.
Written off	No	The Serial ID is marked as missing in other location. System reactivates it automatically.
Location Mismatch	No	The Serial ID is recorded in other location. System transfers it automatically.
Shipped	No	The Serial ID is recorded as shipped to a customer. System reactivates it automatically.
Missing	No	The Serial ID is recorded in current site/location but not counted. System writes it off automatically.
Not exist	Yes	The Serial ID doesn't exist in the system.
Item Mismatch	Yes	Item mismatch.
Invalid Stage	Yes	The stage is booked, new, pending, decommmed, or consumed.
Picked Missing	Yes	The Serial ID is picked, but it is missing.

Cycle Recount Entry by Location

Cycle Count

Cycle Recount Entry by Location

Cycle Recount Entry by Locati... x

Go To • Actions • Copy • Print • Preview • Attach •

Item Number: 05001	Tolerance Method: Qoh
Site: 10500	Tolerance Percent: 3.00%
Location: 010	Tolerance Amount: 0.00
Description: Pills, Blister of 12	GL Cost: 0.40384
12	Last Count: 12/1/2015
Cum Expected: 0.0 EA	Qty On Hand: 10.0 EA
Cum Counted: 0.0 EA	

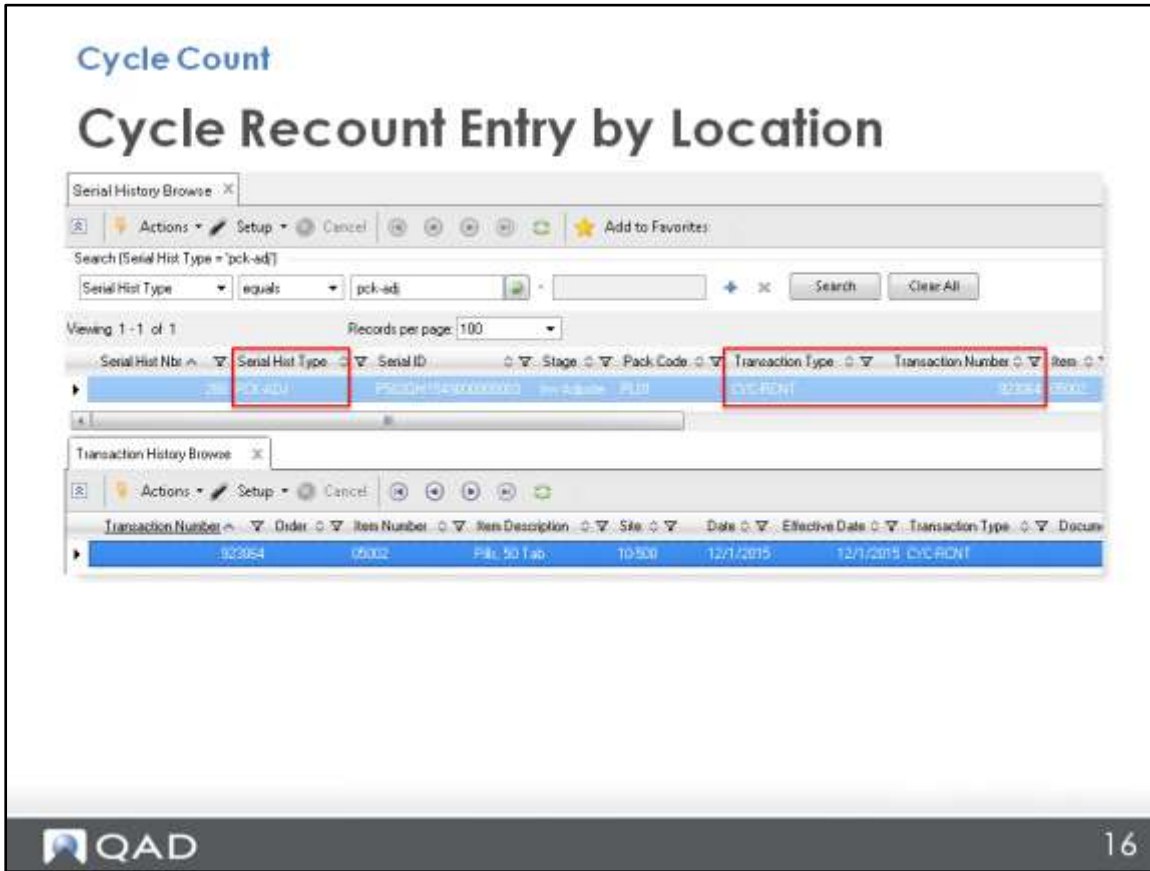
Serial ID:

QAD 15

Use Cycle Recount Entry by Location (3.13.14) to recount the number of items physically by pack.

This program works in the same way as Cycle Count Entry by Location, except that it recounts items and changes the inventory balance to equal the number counted, even if it is out of tolerance.

Cycle Recount Entry by Location



The PCK-ADJ serial transaction is created and linked to the inventory transaction. If packs move automatically, the PCK-MOV serial transaction is created.

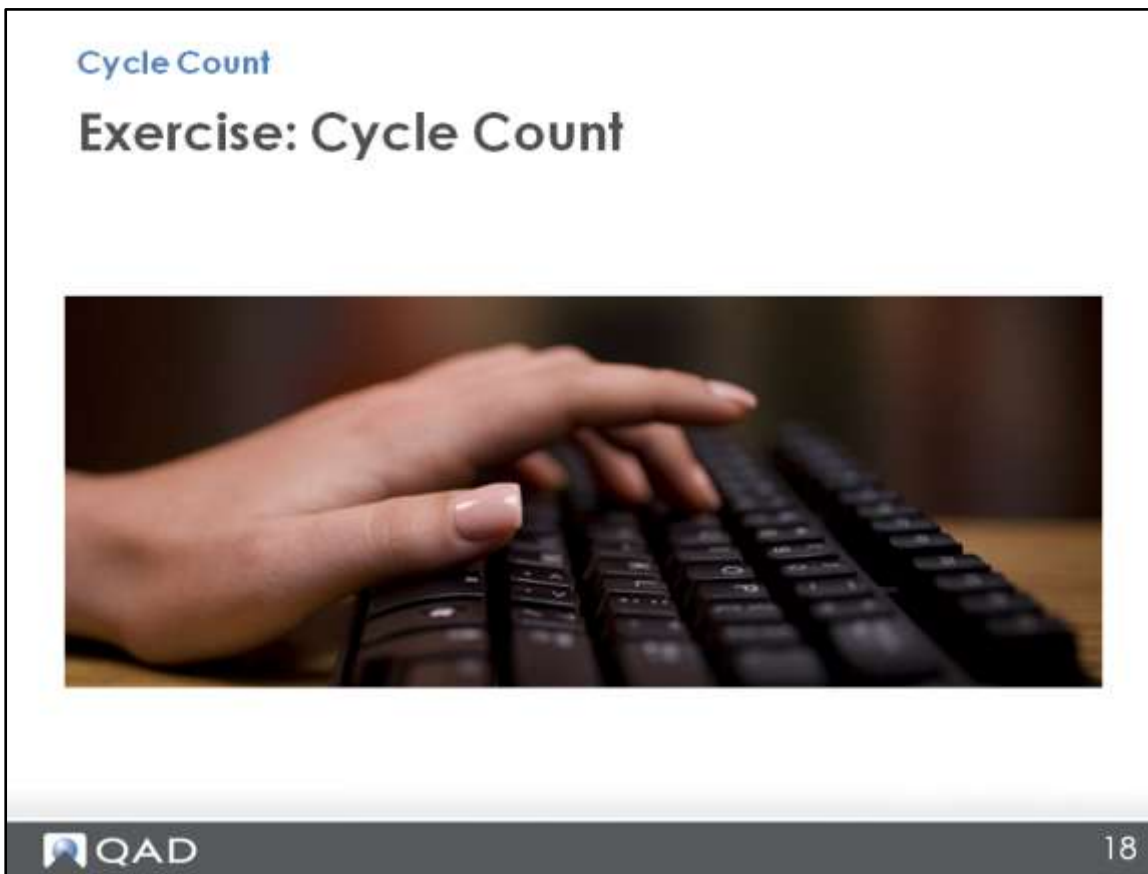
Review

Cycle Count

Review

- Cycle Count Process Map
- Cycle Count Process Flow
- Cycle Count Batch Active Duration
- Cycle Count Worksheet Print
- Cycle Count Entry by Location
- Cycle Count Results Browse Collection
- Cycle Recount Entry by Location

Exercise: Cycle Count



In this exercise, you practice printing a count worksheet, recording the counts by location, reviewing the counting results, and doing the recounting by location.

1. Use Cycle Count Worksheet Print (3.13.25) to print a worksheet for item 02210. Set Print Quantity OH to Yes. Notice the pack information.
2. Use Cycle Count Entry by Location (3.13.13) to enter a master serial ID for item 02210.

Item Number	02210
Site	10-200
Location	010
Serial ID	10200A1508000000002
Is cycle count completed?	No

3. Use Cycle Count Results Browse Collection to review the In Process and Status fields. The value of In Process should be Open and the value of Status should be Initial. Notice the information in the counting history browse below.

4. Use Cycle Count Entry by Location to enter a master serial ID for item 02210 at location 050.

Item Number	02210
Site	10-200
Location	050
Serial ID	10200A1508000000007
Is cycle count completed?	Yes

5. Use Cycle Count Results Browse Collection to review the Cause information in the counting history browse. It should be Location Mismatch. Notice that the From Site should be 10-200 and the From Location should be 010.
6. Use Cycle Count Entry by Location to enter a master serial ID for item 02210 at location 010.

Item Number	02210
Site	10-200
Location	010
Serial ID	10200A1508000000011
Is master pack open?	Yes
Is cycle count completed?	Yes

7. Use Cycle Count Results Browse Collection to review the Cause information in the counting history browse. Notice that some serial IDs are marked as missing.
8. Use Cycle Recount Entry by Location (3.13.14) to enter master serial IDs for item 02210 at location 010.

Item Number	02210
Site	10-200
Location	010
Serial ID	10200A1508000000002
Serial ID	10200A1508000000012
Serial ID	10200A1508000000017
Is cycle count completed?	Yes

9. Use Cycle Count Results Browse Collection to review the Cause information in the counting history browse. Notice that one serial ID is marked as Written off.
10. Use Cycle Count Result Browse (3.13.28) to view the cycle counting results.
11. Use Serial History Browse to review the cycle count transaction type.

CHAPTER 10

Physical Inventory

Physical Inventory

Serialization



Our Passion. Your Advantage.

Physical Inventory

Physical Inventory

Physical Inventory

In this section, you will learn how to:

Identify key business considerations before setting up Serialization in QAD Enterprise Applications

Set up Serialization in QAD Enterprise Applications

- **Process Serialization in QAD Enterprise Applications**

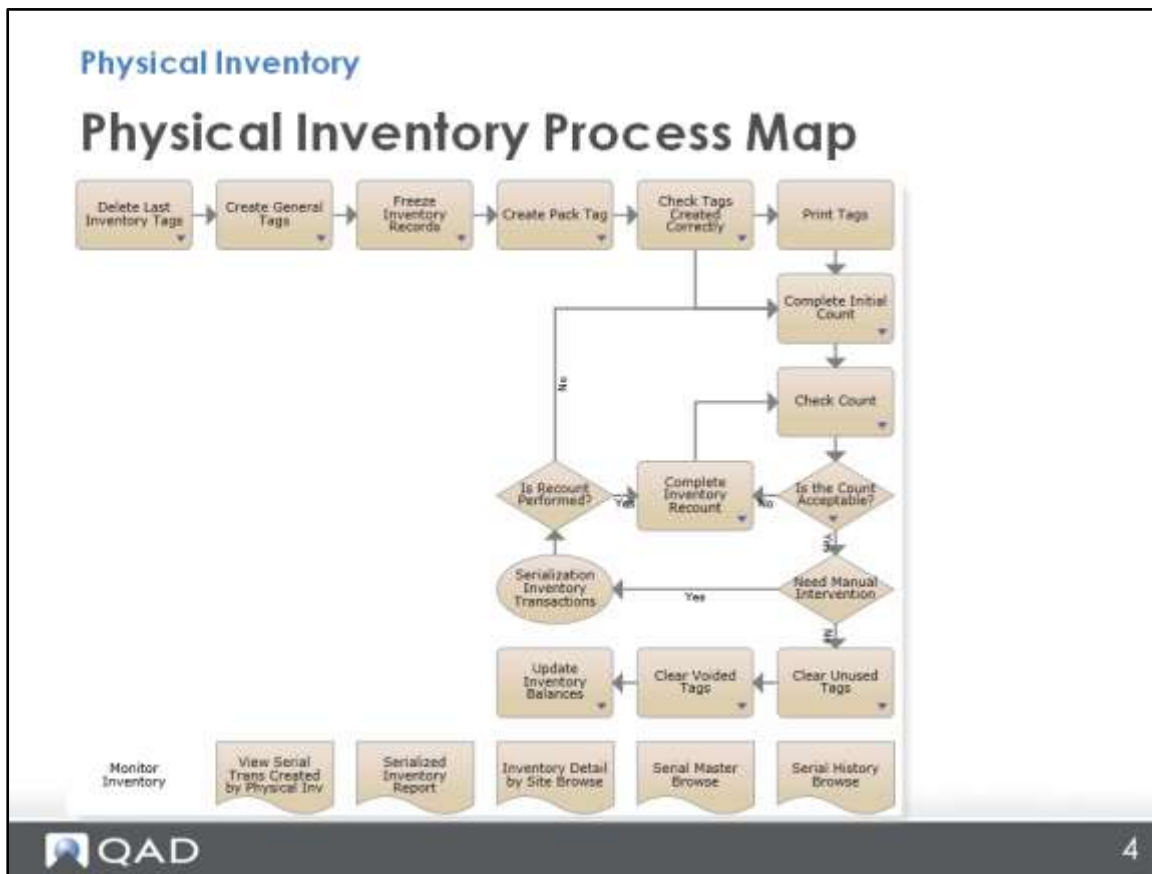
Overview

Physical Inventory

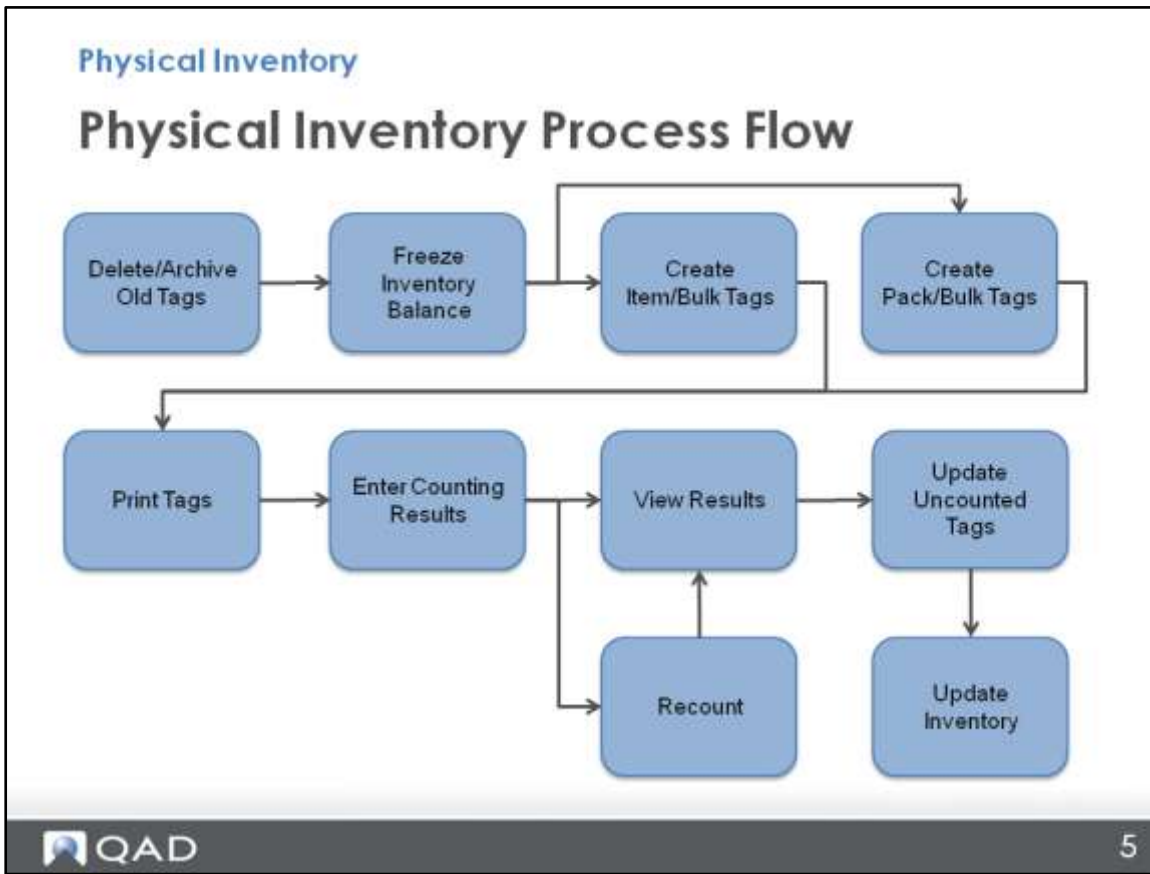
Overview

- Physical Inventory Process Map
- Physical Inventory Process Flow
- Tag Delete/Archive
- Inventory Balance Freeze
- Pack Tag Create
- Bulk Tag Create
- Pack Tag Print
- Pack Tag Count Entry
- Pack Tag Recount Entry
- Uncounted Pack Tag Report/Update
- Inventory Balance Update by Pack

Physical Inventory Process Map



Physical Inventory Process Flow

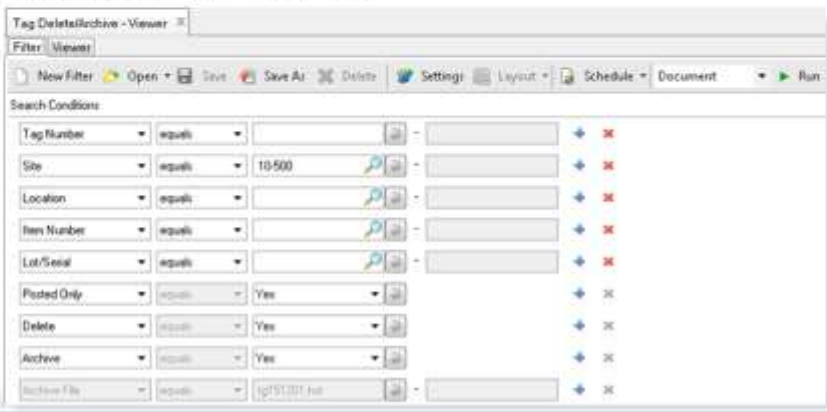


Tag Delete/Archive

Physical Inventory

Tag Delete/Archive

- Deletes and archives physical inventory count tags, both item tags and pack tags
- Clears out old tag records before new physical inventory



Field	Operator	Value	Buttons
Tag Number	equals		+ - X
Site	equals	10-500	+ - X
Location	equals		+ - X
Item Number	equals		+ - X
Lot/Serial	equals		+ - X
Picked Only	equals	Yes	+ X
Delete	equals	Yes	+ X
Archive	equals	Yes	+ X
Archive File	equals	10/15/2017 full	+ X

Use Tag Delete/Archive (3.16.3.8) to delete and archive selected tags. You can use this feature to delete and archive pack tags too. When you do, the system deletes or archives related serial history (TAG-CNT) linked with the tag; however, the records associated with inventory update are not affected.

When there are pack tags created for the selected location, the system ignores the item number or lot/serial that is entered as selection criteria. You can only filter pack tags by the Tag Number or Site/Location filters.

Inventory Balance Freeze

Physical Inventory

Inventory Balance Freeze

- Freezing inventory records based on the quantity on hand
- Only inventory of non-serialized loose items will be frozen
- Non-serialized loose items: Compare frozen quantity with counted quantity
- Serialized items and serialized packs: Compare QOH with counted quantity

Frozen inventory records the quantity on hand at this moment, nothing more. All physical inventory functions use this frozen quantity.

Only the inventory of non-serialized loose items will be frozen. The system compares the frozen quantity with the counted quantity for non-serialized loose items. For serialized items and serialized packs, the system compares the quantity on hand with the counted quantity.

Inventory Balance Freeze

Physical Inventory

Inventory Balance Freeze

Inventory Balance Freeze X

Go To Actions Copy Print Preview Attach

Site: Location: Product Line: Item Number: ABC Class:

To: To: To: To:

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Qty	UM
10-500	050	05002 Pills, 50 Tab	05002-1201		22.00	12.00	10.00	EA

LV	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	PS020M154900000002	BX01	Active	8.00	EA
1	PS020M154900000004	BX01	Active	8.00	EA
Total				12.00	EA

Frozen Inventory Valuation Rept X

Frozen Inventory Valuation Reprt 12/01/15

10USA

Item Number	Site	Location	Lot/Serial	Reference	Frz Date	Frz Time	Freeze Loose	GL Cost	Extended Cost Warnings
05002	10-500	050	05002-1201		12/01/15	21:24:57	10.0	0.37546	3.75
Total									3.75

QAD 8

Freeze inventory balances before entering any physical inventory counts and usually before creating tags—otherwise, there may be inventory detail records without tags (use bulk tags), or tags without inventory (use tag void).

Inventory Balance Freeze records the current quantity on hand balance for each site, item number, location, lot/serial, and reference combination. With Freeze Qty, the system records the Freeze Date on each inventory detail (ld_det) record.

Inventory Balance Freeze does not prevent inventory transactions from being processed. Define menu security to restrict access to these programs.


Make sure that your procedures prevent inventory transactions between an Inventory Balance Freeze and an Inventory Balance Update. Otherwise, the result will often be incorrect inventory balances. The Inventory Variance Report displays a message “Inventory transactions have occurred after freeze/tag create date” but the report shows only the variance between the freeze of an item and the tag count. If you choose to ignore this warning, maintain a paper record of all transactions and cycle count all affected locations after an inventory balance update.

Pack Tag Create

Physical Inventory

Pack Tag Create

- Create pack tags for all top-level packs of the selected location
- Create pack tags for loose item serial IDs
- Create item tags for non-serialized loose items of the selected location



Use Pack Tag Create (3.16.3.1) to:

- Generate pack tags for all the top-level packs whose stage is set to Active or Picked within the entered location.
- Create pack tags for any serialized loose items (not held in any serialized pack).
- Create item tags based on site, location, lot, or reference when there are non-serialized loose items.

Pack Tag Create

Physical Inventory

Pack Tag Create

Serialized Inventory Report
10USA USD

Page 1 / 1
12/22/15
4:02:04 PM

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	050	05002 Pills, 50 Tab	05002-1201		22.00	12.00	10.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	P502QM1549000000008	PLD1	Active	2.00	EA
2	P502QM1549000000007	BR01	Aggregated	6.00	EA
3	P502QM1549000000009	BR01	Aggregated	6.00	EA
Total				12.00	EA

Tag Browse

Actions: Setup Cancel Add to Favorites

Search (Item Number = 05002)

Viewing 1 - 2 of 2 Records per page: 100

Tag Number	Site	Location	Serial ID	Item Number	Lot/Serial	Type	Quantity Counted
45	10-500	050	05002	05002	05002-1201	I	0.00
54	10-500	050	P502QM1549000000008	05002	05002-1201	P	0.00

QAD 10

The system creates pack tags (tag type P) for top-level packs and creates item tags (tag type I) for non-serialized items.

Pack Tag Create

Physical Inventory

Pack Tag Create

Page 1 / 1
12/2/2015
4:36:48 PM

Serialized Inventory Report

18UGA USD

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	050	05004 P/B, 50 Tab	05004-1201		33.00	30.00	3.00	EA

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	10500A151100000020	BK01	Active	5.00	EA
1	10500A151100000035	BK01	Active	5.00	EA
Total				10.00	EA

Tag Number	Site	Location	Serial ID	Item Number	Lot/Serial	Type	Quantity Counted
46	10-500	050	10500A151100000007	05004	05004-1201	P	0.00
47	10-500	050	10500A151100000026	05004	05004-1201	P	0.00
48	10-500	050	10500A151100000027	05004	05004-1201	P	0.00
49	10-500	050	10500A151100000028	05004	05004-1201	P	0.00
50	10-500	050	10500A151100000029	05004	05004-1201	P	0.00
51	10-500	050	10500A151100000035	05004	05004-1201	P	0.00

11

The system creates pack tags (tag type P) for serialized items.

Bulk Tag Create

Physical Inventory

Bulk Tag Create

- Create bulk tags for unexpected items or packs
- No change on the existing function

Starting Tag Number: 55 99999945 Tags Available

Number of Tags: 5

Tag Number	Site	Location	Serial ID	Item Number	Lot/Serial	Type	Quantity Counted
55				B			0.00
56				B			0.00
57				B			0.00
58				B			0.00
59				B			0.00

QAD 12

In a physical inventory, bulk tags are extras—blanks are used if you find other items or lose a tag.

The system generates as many sequentially numbered bulk tags as you specify. Specify the site, item number, location, lot/serial, and reference when a count is recorded.

If you need more bulk tags, you can run this program again.

Pack Tag Print

Physical Inventory

Pack Tag Print

- Print pack tags
- Print item tags
- Print bulk tags in the pack format or item format

Field	Operator	Value	Action
Tag Number	equals		+ X
Repeat Tags	equals	No	+ X
Print Bar Code	equals	No	+ X
Bulk Tag Format	equals	Item	+ X
Print Item Serial	equals	No	+ X
Print Content of Pack	equals	Summary	+ X
Levels	equals	2	+ X
Forms Across	equals	1	+ X

Use Pack Tag Print (3.16.3.2) to print pack tags, item tags, and bulk tags. You can choose to:

- Print the content of packs in summary or detail.
- Print item serial IDs.
- Print bulk tags in the pack format or item format.

Pack Tag Print

Physical Inventory
Pack Tag Print

QAD Tag Print 10USA USD Page 1 / 1
12/2/2015 5:08:45 PM

Site 10-500 Location 050 Tag Number 54
Serial ID P502QM1549000000008
Counted By _____ Recounted By _____
Date Counted _____ Date Recounted _____
Remarks _____

Item Number	Lot Number	Reference	Qty Counted	UOM
05002	05002-1201		12.0	EA
Pack Code	Quantity			
BX01	2.00			

Print Content of Pack = Summary

QAD Tag Print 10USA USD Page 1 / 1
12/2/2015 5:09:33 PM

Site 10-500 Location 050 Tag Number 54
Serial ID P502QM1549000000008
Counted By _____ Recounted By _____
Date Counted _____ Date Recounted _____
Remarks _____

Item Number	Lot Number	Reference	Qty Counted	UOM
05002	05002-1201		12.0	EA
Lower Level Serial IDs	Pack Code			
P502QM1549000000007	BX01			
P502QM1549000000009	BX01			

Print Content of Pack = Detail

QAD 14

If you set Print Content of Pack to Summary, the system prints out the number of child packs of the master pack.

If you set Print Content of Pack to Detail, the system prints out serial IDs of each individual child pack of the master pack.

Pack Tag Print

Physical Inventory
Pack Tag Print

Tag Print
10USA USD

Page 1 / 2
12/2/2016
5:28:24 PM

Site 10-500 Location 050 Tag Number 46
Serial ID 10500A1511000000007
Counted By _____ Recounted By _____
Date Counted _____ Date Recounted _____
Remarks _____

Item Number	Lot Number	Reference	Qty Counted	UM
05004	05004-1201		20.0	EA

Lower Level Serial IDs	Pack Code
10500A1511000000001	BK01
10500A1511000000006	BK01
10500A1511000000014	BK01
10500A1511000000020	BK01

Item Serial ID
10500A1511000000002
10500A1511000000003
10500A1511000000004
10500A1511000000005
10500A1511000000021
10500A1511000000022
10500A1511000000023

Print Item Serial ID = Yes


QAD 15

You can choose to print item serial IDs for loose serialized items.

Pack Tag Print

Physical Inventory

Pack Tag Print



Tag Print

10USA USD

Page 1 / 1
12/2/2015
5:43:15 PM

Print tags for loose non-serialized items

Tag Number 45
Site 10-500
Location 050
Item Number 05002
Description Pills, 50 Tab

UM EA ABC A


Lot/Serial 05002-1201

Qty Counted _____
Count UM _____
Count Conv _____
Counted By _____
Date Counted _____

Reference

Qty Recounted _____
Recount UM _____
Recount Conv _____
Recounted By _____
Date Recounted _____

Remarks



16

Pack Tag Print

The screenshot displays the 'Physical Inventory Pack Tag Print' interface. It features two main sections for tag printing, each with a QAD logo and '10USA USD' text.

Top Section (Pack Tag Print):

- Page 1 / 1, 12/2/2015, 5:47:53 PM
- Tag Number: 05
- Fields: Site, Location, Counted By, Date Counted, Remarks, Recounted By, Date Recounted.
- Table header: Item Number, Lot Number, Reference, Qty Counted, UM.
- Annotation: 'Bluk Tag Format = Pack' with a red arrow pointing to the right.

Bottom Section (Item Tag Print):

- Page 1 / 1, 12/2/2015, 5:52:16 PM
- Tag Number: 05
- Fields: Site, Location, Item Number, Description, Lot/Serial, Qty Counted, Count UM, Count Conv, Counted By, Date Counted, Remarks, UM, ABC, Reference, Qty Recounted, Recount UM, Recount Conv, Recounted By, Date Recounted.
- Annotation: 'Bluk Tag Format = Item' with a red arrow pointing to the left.

The QAD logo and '10USA USD' are visible at the bottom left of the interface. The page number '17' is located at the bottom right.

You can choose to print bulk tags in the pack format or item format to record unexpected pack or item serial information.

Pack Tag Count Entry

Physical Inventory

Pack Tag Count Entry

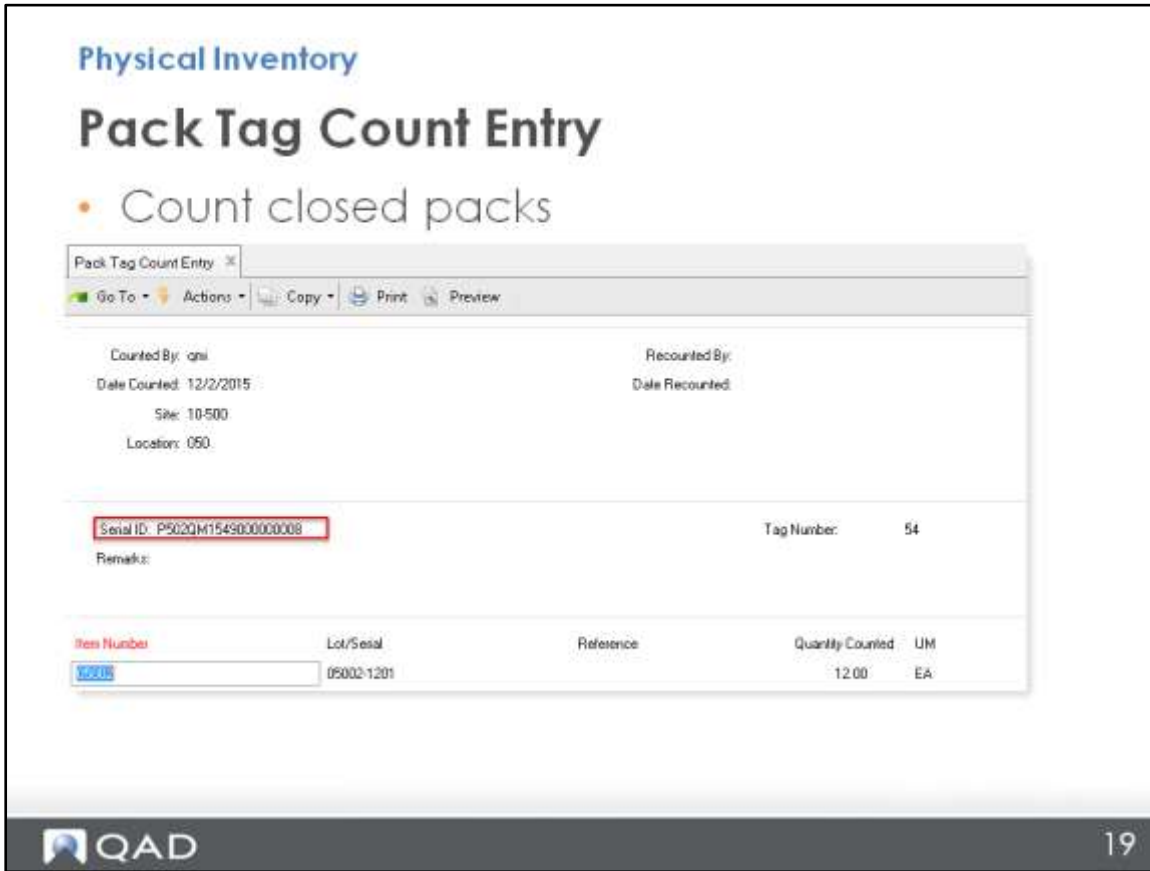
- Count closed packs
- Count open packs
- Count loose inventory
- Count unexpected packs and inventory
- Not change QOH during counting

Use Pack Tag Count Entry (3.16.3.3) to count inventory by pack. You can:

- Count closed packs.
- Count open packs.
- Count loose inventory.
- Count unexpected packs and inventory.

The system does not change the quantity on hand during counting.

Pack Tag Count Entry



You scan the master pack serial ID only and the system assumes that the content of the master pack is correct when the master pack is found. The system retrieves the tag number and information from the pack.

Pack Tag Count Entry

Physical Inventory

Pack Tag Count Entry

- Count open packs

Pack Tag Count Entry
Go To Actions Copy Print Preview

Counted By: qni

Date Counted: 12/2/2015

Site: 10-500

Location: 050

Recounted By:

Date Recounted:

Serial ID: 10500A1511000000001

Tag Number:

Remarks:

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-500	050	05004 Pills, 50 Tab	05004-1201		33.00	30.00	3.00	EA
		Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM	
		1	10500A1511000000007	PL01	Active	4.00	EA	
		2	10500A1511000000001	BK01	Aggregated	5.00	EA	
		2	10500A1511000000008	BK01	Aggregated	5.00	EA	
		2	10500A1511000000014	BK01	Aggregated	5.00	EA	
		2	10500A1511000000020	BK01	Aggregated	5.00	EA	

20

For open packs, the counting can happen at any level, but you need to count all child packs. If a child pack is not counted, the system issues it during the inventory balance update process.

The system does not allow you to count the content of a Picked pack.

Pack Tag Count Entry

Physical Inventory
Pack Tag Count Entry

Pack Tag Count Entry x

Go To - Actions - Copy - Print - Preview - Attach -

Counted By: qni
Date Counted: 12/2/2015
Site: 10-200
Location: 010

Recounted By:
Date Recounted:

Serial ID: 10200A1508000000001
Tag Number: 87

Remarks:

Item Number: 02210
Quantity Counted: 2,000,000 EA

Site	Location	Item Number	Lot/Serial	Reference	Qty On Hand	Qty in Pack	Loose Inv	UM
10-200	010	02210			40.00	40.00	0.00	EA
Motor Arm S-Way Seal Adj 24V 3 amp 1 hp								

Lv	Serial ID	Pack Code	Stage	Avail Pack Qty	UM
1	10200A1508000000002	PL02	Active	4.00	EA
2	10200A1508000000001	BX02	Aggregated	2.00	EA
2	10200A1508000000003	BX02	Aggregated	2.00	EA
2	10200A1508000000004	BX02	Aggregated	2.00	EA
2	10200A1508000000005	BX02	Aggregated	2.00	EA

QAD 21

If you count Aggregated unit packs of non-serialized items and the master pack is not counted, the system prompts you to answer whether the master pack is open. In this case, the inventory data is editable and you can enter the actual item number, lot/serial, and quantity.

Pack Tag Count Entry

Physical Inventory

Pack Tag Count Entry

- Count serialized loose inventory


Pack Tag Count Entry x

Go To Actions Copy Print Preview Attach

Counted By: gmi Recounted By:
 Date Counted: 12/2/2015 Date Recounted:
 Site: 10500
 Location: 050

Serial ID: 10500A151100000026 Tag Number: 47
 Remarks:

Item Number	Lot/Serial	Reference	Quantity Counted	UM
05004	05004-1201		1.0	EA

 22

You can count loose serialized items, which are not in packs, but with serial IDs.

Pack Tag Count Entry

Physical Inventory

Pack Tag Count Entry

- Count non-serialized loose inventory

Pack Tag Count Entry

Go To Actions Copy Print Preview Attach

Counted By: qmi Recounted By:
Date Counted: 12/2/2015 Date Recounted:
Site: 10-500
Location: 050

Serial ID: Tag Number: 137
Remark:

Item Number	Lot/Serial	Reference	Quantity Counted	UM
05002	05002-1203		10 00000000	EA

QAD 23

To count non-serialized loose inventory, leave Serial ID and Tag Number fields blank and enter the inventory detail. The system retrieves the tag number based on the inventory detail information.

Pack Tag Count Entry

Physical Inventory

Pack Tag Count Entry

- Count a pack not in the inventory

Pack Tag Count Entry

Go To Actions Copy Print Preview Attach

Counted By: qni
Date Counted: 12/2/2015
Site: 10-500
Location: 050

Recounted By:
Date Recounted:

Serial ID: 10500A1512000000007
Remarks:

Serial ID: 10500A1512000000007
Remarks:

Tag Number: 147

Counted Tag Browse | Uncounted Tag Browse | Inventory Variance Browse | Serial Trans Since Tag Count Browse

Actions Setup Cancel

Viewing 1 - 4 of 4 Records per page: 100

Tag	Serial ID	Pack	Stage	Master Serial ID	Item Number	Quantity In Pack	Manual Intervention
147	10500A1512000000007					0.00	YES

QAD 24

Use bulk tags to record unexpected packs or inventory. The system creates a bulk tag number automatically when you leave the Tag Number field blank.

The unexpected packs and inventory include:

- Packs not in the inventory (with inactive stage or invalid serial ID)
- Packs not in the expected location

When you count a pack that is not in the inventory, the system marks the count with manual intervention and you are required to manually fix this issue later on.

Pack Tag Count Entry

Physical Inventory

Pack Tag Count Entry

- Count a pack not in the expected location

Pack Tag Count Entry x

Go To • Actions • Copy • Print • Preview • Attach •

Counted By: gmi Recounted By:

Date Counted: 12/2/2015 Date Recounted:

Site: 10-500

Location: 050

Serial ID: 10500A151200000001 Tag Number:

Remarks: Serial ID: 10500A151200000001 Tag Number: 148

Remarks:

Item Number	Lot/Serial	Reference	Quantity Counted	UM
148	05004-1202		5.00	EA

To: Serial ID: Pack Code: Stage: Item Number: Cause: From Site: From Loc: Lot/Serial:

148	10500A151200000001	IS-01	Active	05004	Location Mismatch	10-500	010	05004-1202
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QAD 25

If you count a pack that is not in the expected location, leave the Tag Number field blank to let the system generate a bulk tag number. The system marks the count as a location mismatch and also identifies the source site/location information.

Pack Tag Recount Entry

Physical Inventory

Pack Tag Recount Entry

Pack Tag Recount Entry x

Go To • Actions • Copy • Print • Preview • Attach •

Counted By: _____ Recounted By: gms
 Date Counted: _____ Date Recounted: 12/3/2015
 Site: 10-500
 Location: 050

Serial ID: 10500A1511000000029 Tag Number: 142
 Remarks: _____

Item Number	Lot/Serial	Reference	Quantity Counted	UM
05004	05004-1201		5.00	EA

QAD 26

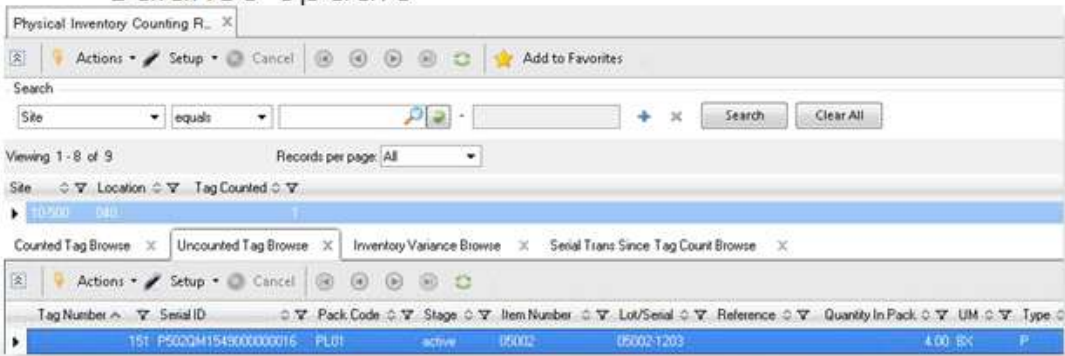
Use Pack Tag Recount Entry (3.16.3.4) to recount inventory by pack. This program works in the same way as Pack Tag Count Entry; however, Pack Tag Recount Entry is different in that the system uses the recount result to update inventory balances when both initial count and recount results exist for a tag.

Uncounted Pack Tag Report/Update

Physical Inventory

Uncounted Pack Tag Report/Update

- Identify missing packs
- Identify missing child packs
- Does not issue inventory if pk is not counted
 - Does not mark tag as missing in Inventory Balance Update



Use Uncounted Pack Tag Report/Update (3.16.3.7) to view uncounted tags and to identify missing packs or child packs. If a pack is not counted, the system does not issue the inventory, and when you run Inventory Balance Update, the tag is not marked as missing.

Use Physical Inventory Counting Result Collection to view physical counting results. The browse collection provides:

- Summary information for the site and location
- Detailed counting results
- Uncounted tags
- Inventory variance
- Serial transactions since the tag count

Uncounted Pack Tag Report/Update

Physical Inventory									
Uncounted Pack Tag Report/Update									
10/USA USD									
Page 1 / 1									
12/2/2015									
3:38:14 PM									
Tag Nbr	Site	Location	Serial ID Item Number	Lot/Serial Ref	Remarks	T	Created	Prt Date	Warnings
151	10-500	040	P502QM154900000016 05002	05002-1203		P	12/2/2015		
Missing Lower Level Packs									
Tag Nbr	Site	Location	Master Serial ID	Missing Lower Level Serial ID Item Number	Lot/Serial Reference				
148	10-500	040	P502QM154900000011	P502QM154900000012 05002	05002-1203				
				P502QM154900000013 05002	05002-1203				
				P502QM154900000014 05002	05002-1203				

The Include Missing Lower Level Pack filter controls whether the system displays missing content of counted packs in the results. When you set the filter Include Missing Uncounted Lower Packs to Yes, the missing contents of the counted packs are displayed at the end of the report.

The system displays the serial ID when the tag is for a pack; the items contained in the pack are displayed too. When multiple items are contained, the system displays multiple lines with the same tag number and serial ID.

Uncounted Pack Tag Report/Update

Physical Inventory
Uncounted Pack Tag Report/Update

Physical Inventory Counting R.L. x

Actions Setup Cancel Add to Favorites

Search
Site equals Search Clear All

Viewing 1 - 8 of 9 Records per page: All

Site Location Tag Counted

Counted Tag Browse x Uncounted Tag Browse x Inventory Variance Browse x Serial Trans Since Tag Count Browse x

Actions Setup Cancel

Viewing 1 - 5 of 5 Records per page: 100

Tag	Serial ID	Pack Code	Stage	Master Serial ID	Item Number	Cause	Lot/Ser
145	P502QM154900000010	B*01	Aggregated	P502QM154900000011	05002		05002-1203
145	P502QM154900000011	PL01	Active	P502QM154900000011	05002		05002-1203
149	P502QM154900000012	B*01	Aggregated	P502QM154900000011	05002	Missing	05002-1203
149	P502QM154900000013	B*01	Aggregated	P502QM154900000011	05002	Missing	05002-1203
149	P502QM154900000014	B*01	Aggregated	P502QM154900000011	05002	Missing	05002-1203

QAD 29

Packs that are not counted are marked as missing.

Inventory Balance Update by Pack

Physical Inventory

Inventory Balance Update by Pack

- Updates based on location
- Manually fix all Manual Intervention problems before update
 - Item mismatch
 - Serial ID with an inactive stage such as New, Booked
 - Non-existent serial IDs
 - Serial ID is picked, but missing

Use Inventory Balance Update by Pack (3.16.3.6) to reflect the inventory that you count by serialized pack at a given site and location. If there are problems that must be fixed manually, the Manual Intervention section is displayed based on location. You can set the Update criterion to No to print changes for preview. After all issues that required manual intervention are fixed, set Update to Yes to update the inventory balance.

Inventory Balance Update by Pack

Physical Inventory

Inventory Balance Update by Pack

- The system fixes the following problems automatically during update

Counting Result	System action
The serial ID has stage "inv_adj" but is found	The Serial ID was Cycle Counted/Issued during Physical Inventory in another location. The system reactivates it automatically.
Location Mismatch	The system transfers the serial ID automatically.
The serial ID should be shipped but is found	The system reactivates it automatically.
The serial ID is missing	The system writes it off automatically.
Count Qty <> Qty in Pack of unit pack	The system adjusts qty in Pack.

Inventory Balance Update by Pack

Physical Inventory

Inventory Balance Update by Pack

QAD Page 1 / 1
12/3/2015
3:53:40 PM

Inventory Balance Update by Pack
10USA USD

Site	Location	Item Number	Lot/Serial	Reference	Total Variance
10-500	040	05002	05002-1203		-18.00

Inventory in Pack

Serial ID	Pack Code	Master Pack Stage	Qty Counted	Qty in Pack	QOH Var	Cause
P502QM1548000000010	BK01	Active	6.00	6.00	0.00	
P502QM1548000000012	BK01	Active	0.00	6.00	-6.00	Missing
P502QM1548000000013	BK01	Active	0.00	6.00	-6.00	Missing
P502QM1548000000014	BK01	Active	0.00	6.00	-6.00	Missing

QAD 32

The system displays the Total Variance as the sum of the QOH variance in inventory both in and not in the pack.

- **Not in Pack:** The system displays the balance of loose items of the item, site, location, lot, and reference, the quantity counted or frozen, and the QOH variance. The Quantity Counted shows the counted quantity on the related item tag, while the frozen quantity shows the frozen inventory of items not in a serialized pack. The QOH variance is the difference between the quantities counted and frozen.
- **In Pack:** The system displays the same type of inventory as that for inventory in the pack. When there are pack problems, the system corrects them automatically during update. The system displays the serial ID, pack code, master pack stage, quantity counted and in the pack, QOH variance, and the cause of the problem. When the cause is a mismatched location or item, you can print the original site, location, or item number that is mismatched. When the cause is due to inventory shipped, you can print the shipper ID. The quantity counted shows the counted data for the pack, while the pack quantity shows the quantity in this pack in the system. The QOH variance is the difference between the quantity counted and the quantity in the pack.

For items in serialized packs, the system adds or subtracts the difference between the current QOH and the counted amount. The loose non-serialized item with the item tag still uses the original logic, where the system compares the frozen quantity with the counted quantity.

Review

Physical Inventory


Review


- Physical Inventory Process Map
- Physical Inventory Process Flow
- Tag Delete/Archive
- Inventory Balance Freeze
- Pack Tag Create
- Bulk Tag Create
- Pack Tag Print
- Pack Tag Count Entry
- Pack Tag Recount Entry
- Uncounted Pack Tag Report/Update
- Inventory Balance Update by Pack

Exercise: Physical Inventory

Physical Inventory

Exercise: Physical Inventory




34

In this exercise, you practice deleting and archiving old tags, freezing inventory balances, creating pack tags and bulk tags, printing pack tags, entering counted pack tags, and updating inventory balances.

1. Use Tag Delete/Archive (3.16.3.8) to delete and archive all the old tags.
2. Use Inventory Balance Freeze (3.16.4) to freeze all inventory. Use Frozen Inventory Valuation Report (3.16.16) to review the frozen inventory.
3. Use Pack Tag Create (3.16.3.1) to generate all pack tags and item tags. Use Tag Browse (3.16.3.5) to view created tags. Use Pack Tag Create to create five bulk tags as well.
4. Use Pack Tag Print (3.16.3.2) to print all the pack tags, item tags, and bulk tags.
5. Use Pack Tag Count Entry (3.16.3.3) to count some packs, loose inventory, and any unexpected packs and inventory.
6. Use Pack Tag Recount Entry (3.16.3.4) to recount any inventory out of tolerance.
7. Use Uncounted Pack Tag Report/Update (3.16.3.7) to view uncounted tags and to identify packs or child packs as missing.
8. Use Inventory Balance Update by Pack (3.16.3.6) to update the inventory.

