

**Oracle® Retail MICROS Retail-J**

Inventory Management PIR

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# **MICROS Retail-J**

## **Inventory Management**

PIR

## Revisions

1.1	March, 2015	Added Oracle cover and copyright page.
1.0	June 21, 2013	First published.

## Referenced Documents

<i>Store-to-Store Stock Transfers</i>
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Note: The rebranding for the latest version of this documentation set is in development as part of post MICROS acquisition activities. References to former MICROS product names may exist throughout this existing documentation set.

## 1.0 Introduction

This document comprises:

- A context definition
- Supporting concepts
- XML message format definition (see *Store-to-Store Stock Transfers*)
- Configuration details
- User interface map
- Worked example (see *Store-to-Store Stock Transfers*)
- Comprehensive summary and break-out process diagrams including error conditions (see *Store-to-Store Stock Transfers*)

## 2.0 Context

Retail-J inventory management provides the following functions:

- Product Search
- Stock Enquiry
- Expected Deliveries
- Product Enquiry
- Product Exporter (optional)
- Goods In
- Goods Out
- [Product Inventory Requests](#)
- Purchase Orders
- Stock Adjustments
- Stock Counting
- [Replenishment](#)
- Reservations
- Inventory Reporting

This document describes Product Inventory Requests (PIRs) generated by automatic and manual replenishment requests and PIRs created using the suggested orders report. Manual creation of PIRs from Operations > Product Inventory > Product Inventory Requests is described in *Store-to-Store Stock Transfers*.

## 3.0 Supporting Concepts

PIRs allow a store to make manual or automatic requests from another stock holding location within the

organisation. Manual requests can be made through the application, typically for a small range of items, or replenishment requests can be generated automatically from current stock levels and expected deliveries.

Partially complete requests can be stored and revisited.

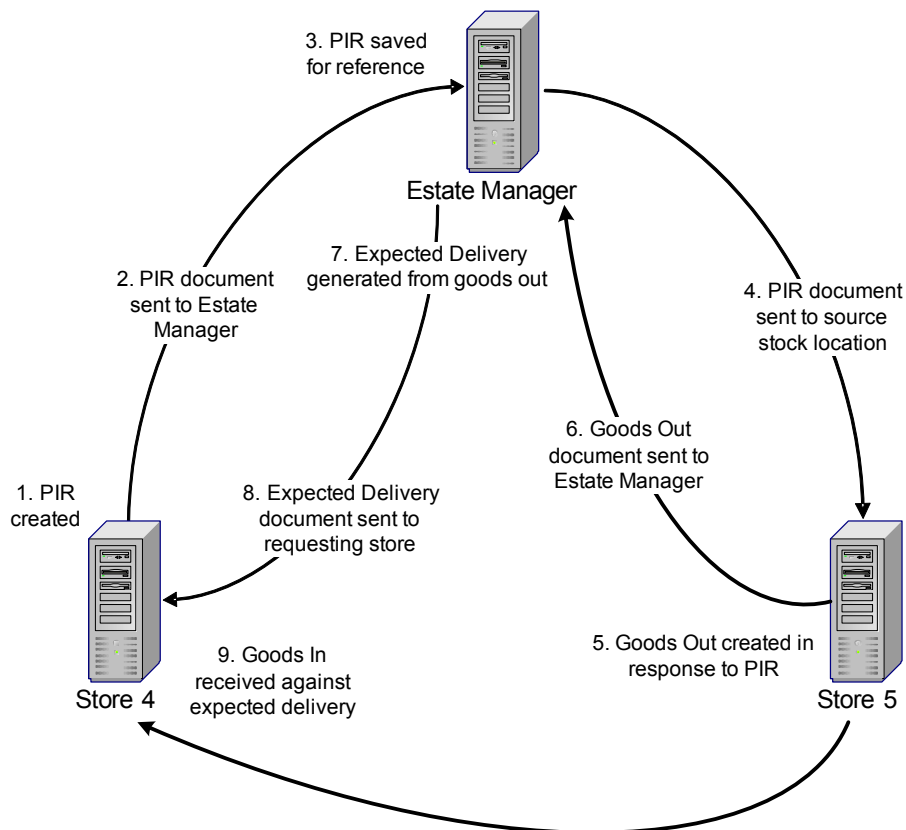
A request moves from created to submitted to partially complete to complete.

The request is passed to where the stock is being sourced. An expected delivery can then be created in response to the request.

PIR related XML documents are messaged via the Estate Manager through the estate.

The following diagram describes PIRs from a messaging perspective.

### PIR from a Messaging Perspective



## 3.1 Replenishment

Replenishment uses a standard or customised replenishment algorithm. The result of a replenishment run is a PIR.

You can approach replenishment from an estate, store or mixed perspective and with varying levels of automation. Options include:

- Estate Manager replenishment requests for stores
- Individual store replenishment requests
- Suggested order reporting. The result of creating an order from a Suggested Order report is either a Purchase Order if the product is a supplier product or a PIR if the product is not a supplier product.



Application Alerts			
Topic	Date Raised	Priority	Description
ProductInventory	12/06/13 16:17	Medium	<a href="#">Replenishment Request completed</a>
ProductInventory	12/06/13 16:17	Medium	<a href="#">Replenishment Request completed</a>

The description field links to the relevant PIR.

### 3.1.2 Run Local Replenishment Request

To run a local replenishment request, go to Operations > Product Inventory > Run Replenishment Request.

Select a store from the drop-down list.

A message is displayed advising that a replenishment request job has been submitted and will start shortly.

On completion of the job a PIR and a corresponding Application Alert are created.

### 3.1.3 Suggested Orders Report

To run the Suggested Orders report, go to Operations > Product Inventory > Inventory Reports > Suggested Orders Report.

The Suggested Orders Report criteria screen is displayed.

### Suggested Orders Report

The following criteria are required for the selected report.

Select Applicable Location Region

All

Select Applicable Location Type

All

Select Location Type

Store

Select Company

Test Company

Select Location

UK Store 5

Select Department




3 Phones

Show products below the minimum re-order level:

☒

Show products above the maximum re-order level:

☒

Select your filter options.

The report can be viewed or saved.



## Suggested Orders Report

Company: Test Company

Listed below are the suggested orders for all products for UK Store 5 which meet the following criteria:

Department: Phones.

Show products below the minimum re-order level.

UK Store 5					
Product ID	Description	Available	Min Level	Max Level	Suggested Order
Department 3 - Phones					
x4	Android Smart Phone	32	144	250	109



The example Suggested Orders report above was selected to show products below the minimum re-order level.

Click on the Create Orders icon.

You are returned to the Suggested Orders Report criteria screen.

Meanwhile, a PIR or Purchase Order has been created.

In this case, a Purchase Order has been generated because the product is associated with an external supplier.

To view the Purchase Order, go to Operations > Product Inventory.

## Purchase Orders

Purchase Orders allows you to order items from suppliers registered with your organisation.

Select a location:	Type	Store	Name	UK Store 5
Status	(All)			
Start Date	13/06/13	(dd/mm/yy)		
End Date	19/06/13	(dd/mm/yy)		
Apply Filter				

All purchase orders which meet the criteria are listed below.

Options	Order ID	Supplier Name	Status	Date Ordered
	PO00515	Smart Phones Are Us	New	19/06/13 15:04

Create New Order →

Click on either the View or Edit icon and then click on View or Edit Items on the Purchase Order details screen.

## Purchase Orders

All products included in the order are shown below.

Options	Product ID	Quantity	Cost Price	Description
	x4	109	£10.00	Android Smart Phone



The product and suggested order quantity are shown.

### 3.1.4 Store Product Defaults, Store Products and Products

The use of Products and Store Products allows replenishment related variables to differ for the same product according to location.

Store Product Defaults can be applied to maximum and minimum stock variables and these can be used to restrict changes to maximum and minimum stock levels for store products.

The following definitions should prove useful in working through this section.

#### Glossary

Term	Definition
Product	The base product definition used by the application.
Supplier Product	Additional supplier attributes added to the base product. Not used in this explanation but included for completeness.
Store Product	Store Specific Product Maintenance will allow you to view, edit, remove and create Store Product details.
Store Product Defaults	Store Product Defaults set the maximum and minimum stock levels for individual products stocked by a particular store.

The following table shows the levels at which replenishment related variables can be set when Store Product Defaults have been configured.

#### Replenishment Variables With Store Product Defaults Configured

Attribute	Store Product Defaults	Store Product Specifics	Product
Minimum Stock Level	X	X	X
Maximum Stock Level	X	X	X
Number of Weeks Cover			X
Average Sales Period (weeks)			X
Slow Movers Period (weeks)			X
Must Stock (check box)			X
Allow Replenishment (check box)			X

The following table shows the levels at which replenishment related variables can be set when Store Product Defaults have **not** been configured.

#### Replenishment Variables With Store Product Defaults Not Configured

Attribute	Store Product Specifics	Product
Minimum Stock Level	X	X
Maximum Stock Level	X	X
Number of Weeks Cover	X	X

Attribute	Store Product Specifics	Product
Average Sales Period (weeks)	X	X
Slow Movers Period (weeks)	X	X
Must Stock (check box)	X	X
Allow Replenishment (check box)	X	X

Apart from Slow Movers Period, the attributes are used as variables in the standard replenishment algorithm used by the Replenishment process and the Suggested Orders report.

### 3.1.4.1 Product - Product Replenishment Details

Replenishment variables can be configured at product level from Data Maintenance > Products and Prices > Hierarchy and Products > Existing/New Product > Edit Product Inventory Details.

## Product Maintenance

You are editing the Product Inventory details for product ID: x4, default description: ment

Field	Value
<b>Stock Details</b>	
No Inventory Tracking	<input type="checkbox"/>
Allow Negative Stock	<input checked="" type="checkbox"/>
Track Serial Numbers	<input type="checkbox"/>
Force Check of Inventory Level	<input type="checkbox"/>
Locate Inventory	<input type="checkbox"/>
Picked Inventory (e.g. not held on sales floor)	<input type="checkbox"/>
<b>Product Replenishment Details</b>	
Minimum Stock Level	<input type="text" value="144"/>
Maximum Stock Level	<input type="text" value="250"/>
Number of Weeks Cover (weeks)	<input type="text" value="2"/>
Average Sales Period (weeks)	<input type="text" value="3"/>
Slow Movers Period (weeks)	<input type="text" value="12"/>
Must stock	<input checked="" type="checkbox"/>
Allow Replenishment	<input checked="" type="checkbox"/>

### 3.1.4.2 Store Product Maintenance (Store Default Details Not Configured)

For Store Product maintenance, the behaviour of the application changes according to whether or not Store Default Details have been configured.

Check the particular location/store **does not** have the Use Store Product Defaults check box selected at Data Maintenance > Company Structure > Locations > Existing/New Location > Inventory Management Details > Use Store Product Defaults

If Store Product Defaults are not configured the equivalent feature in Data Maintenance > Product and Prices > Hierarchy and Products > Existing/New Product > Store Default Details is disabled. If you try to access the feature, the following message is displayed:

## Store Specific Product Default Maintenance

This location is not configured to hold Store Default Details.



Store Product Specific Details are set from Data Maintenance > Product and Prices > Hierarchy and Product > Existing/New Product > Edit Store Specific Details.

Select a Store ID or click the Add icon to select a store from the drop-down list.

The Store Specific Product Maintenance screen for the selected store is displayed.

## Store Specific Product Maintenance

You are editing the store specific product for UK Store 5.

Field	Value
Product ID	x4
Product Description	Android Smart Phone
Store ID	5
Store Name	UK Store 5
Status	Active

Field	Store Product	Product
Minimum Stock Level	0	144
Maximum Stock Level	0	250
Number of Weeks Cover (weeks)	2	2
Average Sales Period (weeks)	3	3
Slow Movers Period (weeks)	12	12
Must stock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Allow Replenishment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Stock Location Reference		
Stock Location Pick Printer Group	-	
Prompt for Customs Number	<input type="checkbox"/>	<input type="checkbox"/>
Prompt for Issue Date	<input type="checkbox"/>	<input type="checkbox"/>
Prompt for Place of Import	<input type="checkbox"/>	<input type="checkbox"/>
Print Shelf Edge Label	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Default Number of Shelf Edge Labels	1	

Details for the Store Product are entered on the left of the screen and existing Product settings are reported on the right of the screen

### 3.1.4.3 Store Default Details

The location first needs to be configured to use Store Product Defaults by enabling Data Maintenance > Company Structure > Locations > Existing/New Location > Inventory Management Details > Use Store Product Defaults.

Store Product Defaults themselves are set from Data Maintenance > Product and Prices > Hierarchy

and Product > Existing/New Product > Store Default Details.

## Store Specific Product Default Maintenance

Store Specific Product Default Maintenance will allow you to view, edit, remove and create default details for store specific products.

All existing store specific product Default details for Hands Free Kit are shown below.

Options	Store ID	Store Name
  	5	UK Store 5
		
		

Select a Store ID or click the Add icon to select a store from the drop-down list.



The Store Specific Product Default Maintenance screen for the selected store is displayed.

### Store Specific Product Default Maintenance

You are editing the store specific product Default for UK Store 5.

Field	Value
Product ID	x4
Product Description	Android Smart Phone
Store ID	5
Store Name	UK Store 5
Status	Active

Field	Store Product
Minimum Stock Level	0
Maximum Stock Level	0

Edit the minimum and maximum stock level as required.

### 3.1.4.4 Store Specific Details

Store Specific Details are set from Data Maintenance > Product and Prices > Hierarchy and Product > Existing/New Product > Edit Store Specific Details.

Select a Store ID or click the Add icon to select a store from the drop-down list.

Where there are no Min/Max defaults available, a message is displayed to that effect.

## Store Specific Product Maintenance

No Min/Max Defaults Available



Otherwise, the Store Specific Product Maintenance edit screen is displayed.

## Store Specific Product Maintenance

You are editing the store specific product for UK Store 5.

Field	Value
Product ID	x4
Product Description	Android Smart Phone
Store ID	5
Store Name	UK Store 5
Status	Active

Field	Store Product	Store Product Default
Minimum Stock Level	0	12
Maximum Stock Level	0	144

**Apply Min/Max Rule** →

↶

Details for the Store Product are entered on the left of the screen and Store Product Default is reported on the right of the screen.

At this point you can return to the Product Maintenance screen and save your update if required.

Alternatively, you can apply the Min/Max rule.

### 3.1.4.5 Applying the Min/Max Rule

The Min/Max rule is set up at the same time as the Use Product Defaults flag.

To restrict the maintenance of minimum and maximum stock levels, first enable Data Maintenance > Company Structure > Locations > Existing/New Location > Inventory Management Details > Use Product Defaults

Enabling the Use Product Defaults check box allows you to select from the Min Max Rules dropdown.

Setting	Description	Effect
Default	Do not allow Store Product Min/Max settings to deviate from the Store Product Min/Max Defaults on application of the Min/Max rule.	On application of the Min/Max rule, where store Product Min/Max settings deviate from the Store Product Min/Max Defaults, the store setting is removed and the message <i>Store setting removed according business rule</i> is displayed.
Accept Greater Than	Allow Store Product Min/Max settings to be greater than the Store Product Min/Max Defaults on application of the Min/Max rule.	A number too small message is displayed if a smaller number than the Store Product Default is entered on application of the Min/Max rule.
Accept Less Than	Allow Store Product Min/Max settings to be less than the Store Product Min/Max Defaults on application of the Min/Max rule.	A number too big message is displayed if a bigger number than the Store Product Default is entered on application of the Min/Max rule.

### 3.1.5 Standard Replenishment Algorithm

The standard replenishment algorithm calculates reorder values using the variables defined in the following table.

Variable	Definition	Source
AW	Average number weeks of data to use for the algorithm	If the Store Product value is null use the standard product value instead. If the standard product value is null, the product is deemed non-replenishable.
MinStock	Minimum quantity to replenish	If the Store Product value is null use the standard product value instead. If the standard product value is null, the product is deemed non-replenishable.
TSQ	Total quantity sold for product	From the Product Movements table
WC	Number of Weeks Cover	If the Store Product value is null use the standard product value instead. If the standard product value is null, the product is deemed non-replenishable.
DOOS	Days out of stock	From ProductInventoryHistory table
SOO	Stock On Order	From ProductInventoryRequests, ExpectedDeliveries, and ProductInventoryAllocations tables
AWS	Average Weekly Sales	Calculated
RL	Reorder Level	Calculated

For products with the Allow Replenishment flag selected, the reorder value calculation is:

```
if (DOOS > 7 * (AW - WC)) set DOOS = 7 * ( AW - WC)
```

```
AWS = 7 (TSQ/((7*AW) - DOOS))
```

```
RL = AWS * WC
```

```
if (RL < (minStock + 0.5)) set RL = MinStock
```

```
RL = RL - Available - SOO
```

## 4.0 Messaged XML Documents Data Formats

Pseudo XML Schema Definitions (XSD) are available with the release. These list the content to be expected in the XML documents generated by the application.

The formats of the messaged documents associated with PIRs are defined in *Store-to-Store Stock Transfers*.

## 5.0 Processes

The following processes need to be running on the Estate Manager and on the thick clients in the stores.

Process	Notes
Entity Updater	The Entity Updater process is part of the replication system and is responsible for applying changes received by the messaging system to the local database.
HTTP Messenger Connector	The HTTP Messenger Connector process continually checks to see if there are any messages for the store or terminal to be collected from the Estate Manager or Store Back Office server. It also sends any waiting data at the same time. It uses a listener servlet on the web server. It sends and receives messages in a single HTTP request/response call. There are a number of message connectors available, enhanced, HTTPS, file and email.
Inventory Task Runner	The Inventory Task Runner job processes a specified number of expected deliveries with or without the Auto_Receive flag set. An Expected Delivery Status called Auto_Receive is available in the ExpectedDeliveries table. The Estate Manager automatically Accepts any Expected Delivery which carries this flag. The Inventory Task Runner process imports an Expected Delivery, processes it, and in turn creates a Goods In event. The Goods In event updates the stock quantities in ProductInventories and also updates the relevant reporting tables.
Messenger Document Transporter	The Messenger Document Transporter process sends or receives any documents to Documents In or from Documents Out using the Micros Retail-J messaging system. It reads documents from the configured import mailbox using the Micros Retail-J messaging system, and sends documents from Documents Out to the given export address. This is the most commonly used mechanism for feeding data to the XML Document Processor. In addition, there are alternative processes to optimise processing for incoming and outgoing messages.
Queued Job Feeder	The Queued Job Feeder process runs queued jobs that accumulate as the result of fixed processes or user interaction.
Replenishment Request	The result of a Replenishment Request is a PIR to a stockholding location. The origination of the contents of the PIR is a standard or custom replenishment calculation.
XML Document Processor	The XML Document Processor uses XML documents in the Documents In database table. When processed, these documents are written to the Documents Out database table in order for them to be sent onwards.






## 5.1 Replenishment Request Process

A Replenishment Request applies the standard or custom replenishment algorithm to the inventory in a stockholding location and generates a PIR against a source stockholding location if required.






### Process Config Maintenance

You are editing configuration for process Replenishment Request Process, device ALL.RJ.S01

Field	Value
Process ID	ReplenishmentRequestProcess
Device ID	ALL.RJ.S01
Cluster Node	
Enabled	<input checked="" type="checkbox"/>
Auto Start	<input type="checkbox"/>
Start Time	00:00
End Time	00:00
Frequency (minutes)	10
Source Type	Warehouse
Source Name	<input type="text"/> Warehouse1
Auto-Approve Request	<input checked="" type="checkbox"/>
Auto-Submit Request	<input checked="" type="checkbox"/>
Multi Location Processing	<input checked="" type="checkbox"/>
Edit Applicable Locations	
	 

To configure the Replenishment Request process the following options are available.

Option/Field	Description
Source Type	Select the source stock location type.
Source Name	Select the source stock location name
Auto-Approve Request	When ticked, PIRs are approved automatically.
Auto-Submit Request	When ticked, PIRs are submitted automatically.
Multi Location Processing	When ticked, one job (and therefore one set of database queries) is run for all applicable stores, rather than one per store. This option can improve performance by reducing database contention.

Option/Field	Description
Edit Applicable Locations	<p>Choose from Location Regions and Location Types as below. Depending on how your estate is configured, this allows the replenishment process to run for a single store or any number of stores in the estate.</p> <p><b>Applicable Location Maintenance</b></p> <p>You are editing the applicable locations for ProcessConfig ReplenishmentRequestProcessor   ALL.RJ.S01</p> <div> <div>Options</div> <div>Applicable Location Region</div> <div>  <div>All Regions</div> <div>  <div>All Regions ▾</div> </div> </div> </div> <div> <div>Options</div> <div>Applicable Location Type</div> <div>  <div>Store</div> <div>  <div>All Types ▾</div> </div> </div> <div>  </div> </div>

## 6.0 Roles

Any number of the following Product Inventory application functions can be assigned to a user via a role. Roles can be maintained from Data Maintenance > Users > Easy Roles.

- View Requests
- Change Location
- Create Request
- View Request
- Edit Request
- Remove Request
- Print Request
- View Request Items
- Edit Request Items
- Approve Request
- Allow Skip Approve Request
- Submit Request
- Cancel Entire Request
- Create New Request from Existing
- Force Request Type
- Import CSV
- Export CSV
- Allow Search for Product Sets

## 7.0 Location Inventory Configuration

All the location inventory configuration options are detailed in the following table.

Field/Option	Description
Use Store Product Defaults	When ticked, the application will use the Store Product Default for maximum and minimum stock and the Min Max Rules selection becomes available. See "Store Product Defaults, Store Products and Products" on page 8.
Min Max Rules	See "Applying the Min/Max Rule" on page 12.
Default Alternative Delivery Location/Home Delivery Source Location/Default Inventory Source Location	
Location Type	Choose a location type from Warehouse, DC or Store.
Location ID	Select the location ID from the drop-down list.
Edit Default Invoice Address	Standard address maintenance screen.
Is Stock Holding Location	Select the check box if stock will be held at this location.
Disallow Unexpected Containers in Goods In	When checked, if additional containers are received, that are not part of the expected delivery, Retail-J will display a warning message "Unexpected Container" and disallow the container in the delivery.
Hold Customer Orders Centrally	Select the check box if customer orders will be held at a central location.
Stock Count Serial Number Discrepancy Check	<p>To configure the display of serial number discrepancies prior to accepting the stock count:</p> <ol style="list-style-type: none"> <li>1. Disable the "Automatically Accept Finished Stock Count" role from Stock Counting for a user.</li> <li>2. Enable the "Visible" check box under Data Maintenance &gt; Workflow &gt; Form Definitions &gt; SCViewItems &gt; SCViewItemsData &gt; SerialDiscrepancy &gt; Check Visible and save the changes.</li> <li>3. At this point, the user is able to see and select the check box "Stock Count Serial Number Discrepancy Check" in Location Maintenance.</li> </ol> <p>When this box is checked, you can see the "The discrepancies are outside the acceptable discrepancy limits for the Count and a recount must be performed" message on finishing a stock count when the counted number matches but there is a discrepancy in the counted serial numbers or the counted serial numbers are more/less than the actual serial numbers.</p> <p>When accepting a count, you can see a Serial Number Discrepancy Indicator of "Yes" if there is serial number discrepancy or else "No". The Serial Number Discrepancy icon is shown against Serial Number Discrepancy Products.</p> <p>Click on the Serial Number Discrepancy icon to view the Serial Number Discrepancy Report. The report can be saved or printed.</p>
Goods In Discrepancy Option	Where All or Store to Store are selected, you can see a Goods In Discrepancy Summary screen when accepting a delivery. The Goods In Discrepancy Summary is for information only. You cannot return to the Goods In to edit the quantity received. A message "Please Contact the Store Manager of <Store Name> to Correct this discrepancy" is also displayed.
Inventory Reservation Request Method	Choose an Inventory Reservation Request Method from the drop-down. The available options are automatic and manual.
Show Expected Stock Values in Stock Count	Select the check box to show expected stock values in stock counts. For a blind stock take, that is where staff in store do not know the expected stock values, do not select this check box.

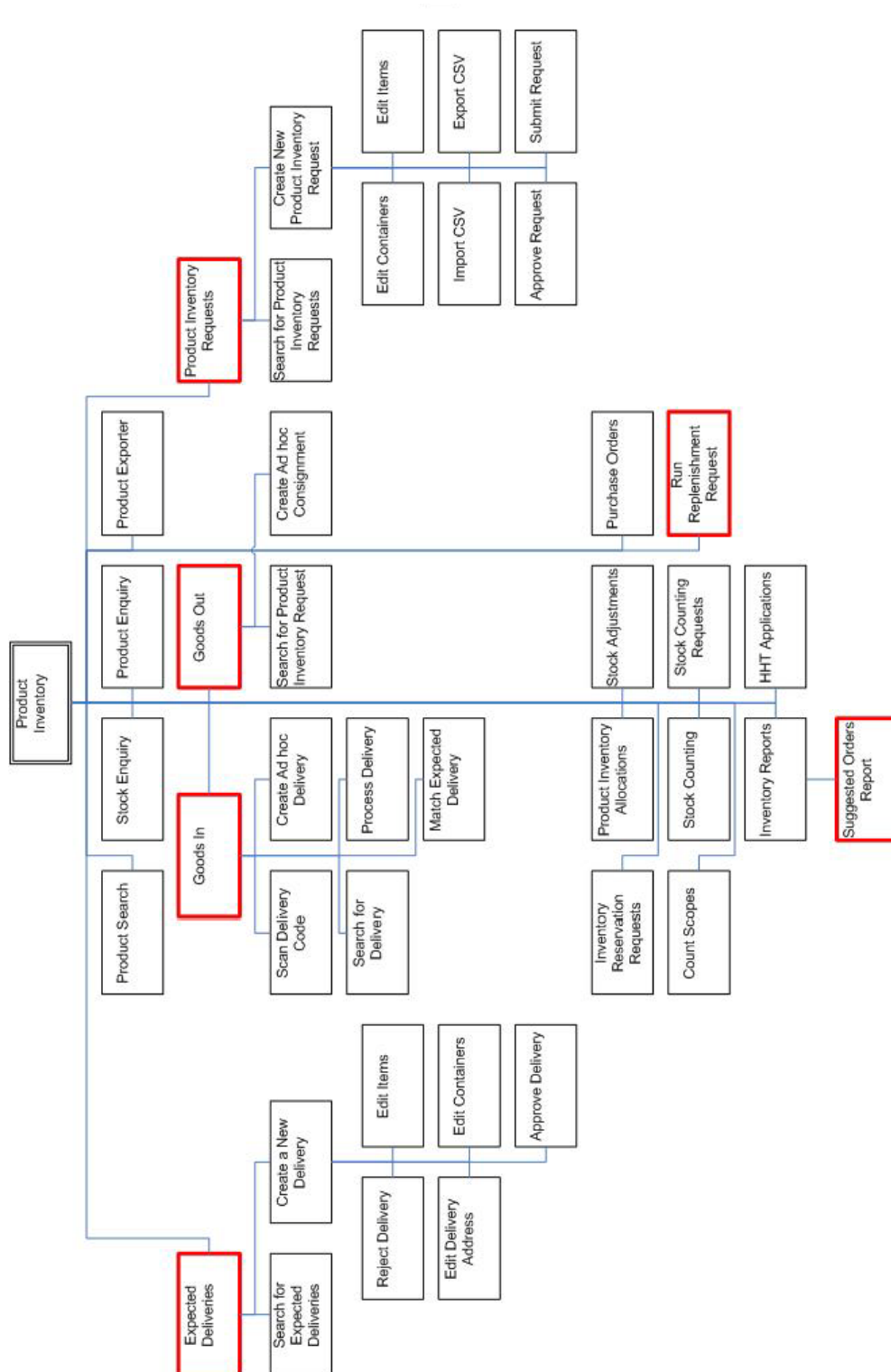
Field/Option	Description
Perform Stock Count by Location Zone	Select the check box to perform stock counts by location zone. This enables you to split up a location into smaller virtual or physical sections, that is zones. This means that a stock count can be performed on a zone rather than at the whole location.
Treat Uncounted Values in Stock Count as Zeros	Select the check box to exclude uncounted stock from stock counts.
Auto Select Discrepancy Items for Recount	When the check box is selected, discrepancy and uncounted items are automatically selected for recounts.
Carry Forward Counted Values For Recount	When this check box is selected already counted values are carried forward for recounts.
Ignore Movements in Stock Count	Select the check box to ignore stock movement in stock counts.
Populate Stock Count Retail Price	Choose from, Start Stock Count, Finish Stock Count, Accept Stock Count and Do Not Populate Retail Price.
Maximum Number of Stock Count Items to Display	Enter the Maximum Number of Stock Count Items to Display. The default is 1000.
Require reason for each Stock Count Item	If the check box is enabled, you have the option to select a reason code for each item with discrepancies before accepting a stock count. A warning message "All Items must be allocated Reason Codes" is displayed if a reason code is not selected. You can enter notes (up to 200 characters) following the stock count adjustment reason code. Notes may be added by item with discrepancies or by stock count where none of the items show a count discrepancy.
Stock Count Quantity Method	Choose a Stock Count Quantity Method method from the drop-down menu. The available options are: Adjust; Adjust (Differences Only); Overwrite
Overwrite Stock Count During CSV Import	Select this check box if the stock count is to be overwritten when importing a CSV file.
Stock Count View MMGroup URL	Enter a URL in the Stock Count View MMGroup URL field.
Enter Serial Numbers for Expected Deliveries	Select the check box to force serial numbers to be entered for any serial tracked item contained in an expected delivery.
Enter Serial Numbers for PIRs	Enter serial numbers for the requested stock items.
Validate Serial Numbers	When this check box is selected the serial number must be validated.
Generate Expected Delivery ID from Goods Out ID	For example: Goods Out ID: GDO0046 (that is GDO as the prefix for Goods Out, 004 as the sending Location ID and 6 being the 6th Goods Out from this location. Expected Delivery ID: EDY00512 (that is EDY as the prefix for Expected Delivery, 005 as the receiving location ID and 12 being the 12th Expected Delivery at this location.
Match Ad hoc Deliveries	Select the check box to enable ad hoc deliveries to be matched to Goods In events where applicable in stock counting.
Force Single Drop Delivery	If this flag is set, then processing of goods in, in response of an expected delivery, will close that delivery regardless of whether there are containers/items still outstanding.
Reduce In-Transit Inventory by Dispatched Quantity	Where items are not delivered to a receiving location, this flag allows the In-Transit stock of the sending location to be reduced by the despatched quantity.

Field/Option	Description
Maximum Number of PIRs Submitted in a Day	Enter the maximum number of requests per day in the Maximum Number of Product Inventory Requests Submitted in a Day field.
Partially Accept Delivery Containers	Select the check box to partially accept delivery containers.
Consolidated Item Checking	<p>Consolidated Item Checking for Goods Outs generated from PIRs and for Goods Ins generated from Expected Deliveries uses the following functionality. If the Consolidated Item Checking check box is selected, then for a Goods Out which is generated from an original PIR:</p> <p>If a container is added to the Goods Out which was not in the original PIR, the “Unexpected Container” message is not displayed.</p> <p>When deciding whether to show the “Expected Qty Exceeded” message for the item entry, the total quantity of the item (whether loose or in containers) is taken into account against the total requested quantity of the item (whether loose or in containers). This applies when adding the item in a container or loose. When deciding whether the original PIR has been fulfilled, the application does not try and match items against containers, it just compares the total quantity of each item (whether loose or in a container) against the total requested quantity of the item from the PIR. The above flag also controls whether the above functionality is switched on for a Goods In which is generated from an original Expected Delivery (which may in turn be generated from an original PIR).</p>
Remove Zero Quantity Lines from Deliveries	When selected, when a Goods Out is submitted, any product lines with a quantity of zero will be removed from the Goods Out. The same applies for Goods In (using the same flag).
Use FIFO Costing	Select the Use FIFO Costing check box to force product inventory to use first in first out costing.
View Fulfillable Orders in Goods In	The flag defaults to true and needs to be disabled for the screen not to be shown.
Goods Out Print Consignment URL	Enter a URL in the Goods Out Print Consignment URL field.
Inventory Server URL	Enter a URL in the Inventory Server URL field.
Product Lookup Web Service	Select a web service from the drop down list.
Process Inventory Transactions using Registered Device	Allow the inventory processors to use registered device ID instead of server device ID.
Item Scanning Options	<p>Select the Item Scanning Options for Goods Out, Goods In, Product Inventory Requests, Stock Counts and Stock Adjustments.</p> <p>The available options are:</p> <p>Standard Entry: the item is scanned and added to the list.</p> <p>Batch Entry: the item is scanned but not added to the list until the end.</p> <p>Non-Incremental Entry: the item is scanned, but the quantity is not increased and is not added to the list.</p>
Stock Count Item Display Options	Click the required button to group stock count items by Department or Range.

Field/Option	Description
Edit Stock Transfer Options	<p>To configure the stock transfer options:</p> <ol style="list-style-type: none"> <li>1. For each of the location types in the Stock Transfer Options column, select the Allow Transfer In check box to allow deliveries from this type of location.</li> <li>2. For each of the location types in the Stock Transfer Options column, select the Allow Transfer Out check box to allow deliveries to this type of location.</li> <li>3. For each of the required Permitted Location Regions, choose a region from the drop-down and click the Add icon. Click the Remove icon to delete any regions added in error. Alternatively, choose All Regions from the drop-down to enable stock transfer across all regions.</li> <li>4. For each of the required Permitted Location Types, choose a type from the drop-down and click the New icon. Click the Remove icon to delete any types added in error. Alternatively, choose All Types from the drop-down menu to enable stock transfer across all location types.</li> <li>5. For each of the required Permitted Location Locales, choose a locale from the drop-down and click the Add icon. Click the Remove icon to delete any locales added in error.</li> <li>6. For each additional country besides the default country, select the required check boxes to enable stock transfer between Warehouses, Stores and DCs.</li> <li>7. Click the Back icon to return to the previous pane.</li> </ol>
Options	Click the Save icon to save your changes. Alternatively, click the Cancel icon to abandon your changes and return to the previous screen.

## 8.0 User Interface

The Product Inventory user interface is mapped in the following diagram. The elements of the user interface used in PIRs are highlighted.



## **8.1 Worked Example**

A worked example of a PIR is depicted in *Store-to-Store Stock Transfers*.

## **9.0 Process and Dataflows**

The process and dataflows associated with PIRs are depicted in *Store-to-Store Stock Transfers*.