

Automatic Replenishment

Aptean Ltd
Copyright © 2011-2026.

Contents

1 Automatic Replenishment.....	1
2 INTRODUCTION.....	2
2.1 AUTOMATIC REPLENISHMENT.....	2
2.2 MANUAL BULK TO PICK REPLENISHMENT.....	2
2.3 REPLENISHMENT FROM ALLOCATION WHEN A PICK FACE RUNS TO ZERO OR BELOW.....	5
2.4 Replenishment during the Allocation Process.....	7
2.5 REPLENISHMENT FROM ALLOCATION USING MINIMUM STOCK AND REPLENISHMENT LEVELS.....	10
2.6 SUPPORTING PROCESSES.....	15
3 Document History.....	17

1 Automatic Replenishment



2 INTRODUCTION

This document describes the required screens to be used for setup and the process for Bulk to Pick Replenishment. Other guides describe the set up of company, user, warehouse, stock etc.

This is a generic guide based on the version of the *CALIDUS* 3pl system at the time of writing.

It can also be used by clients to specify their specific data values to aid initial system set up as well as for future reference.

Note that fields marked ******* are mandatory and are needed to ensure correct set up of the system.

2.1 AUTOMATIC REPLENISHMENT

There are three types of pick face replenishment that is supported by the CALIDUS 3pl WMS v770 system:

1. Manual Bulk to Pick Replenishment using minimum and replenishment by levels
2. Replenishment from allocation when a pick face runs to zero or below
3. Replenishment from allocation using minimum stock and replenishment by levels

 Note: Dynamic Pick faces are not supported in this version of the WMS.

2.2 MANUAL BULK TO PICK REPLENISHMENT

2.2.1 Setup

Replenishment runs at a stock code level, the minimum information that is required to be setup is: a dedicated pick face, a replenish at quantity and a replenish with quantity, which can be either a pallet, case or unit or a combination of, dependent on owner and the stock code requirement within the constraints of the warehouse.

The screen below is accessed via Stock Maintenance / Stock Warehouse Tab / Unbonded Stock Locations

Key fields



Code Value	Description	Values
Pick/Bulk/Replenish	Location type, for replenishment to, it will always be 'Pick'	Pick
Order Type	Will always be Home Use (alternative values are for a bonded location and are not applicable)	Home Use
Seq	Will always be '1'	1
Location Code	This will be the dedicated pick face for the stock code, it can either be manually entered or selected from a List of Values (LOV)	The stock codes pick face (must be correctly setup in location maintenance, usage type 2) If the location code is already assigned to a stock code the system will generate a warning message but will still allow the pick face to be assigned.
Replenish at Quantity	The level at which the replenishment will be generated	i.e. if the quantity is set to 10 cases and there are 9 cases in the pick face then the replenishment process will generate a movement.
Replenish Pallet	If the pick face is to be replenished by a full pallet or number of full pallets	Depends on size of pick face - but generally set to 1
Replenish by Quantity	If the pick face is to be replenished by cases, then enter the number of cases to be moved.	Dependent on setup and size of physical pick face. It is also possible to replenish by units
Putaway Priority	The putaway priority for the stock code - taken into account by the free locations process during receipt	Normally set to 1

2.2.2 Manual Bulk to Pick Replenishment Process

Process -

The Manual Bulk to Pick Replenishment Process is a three stage process.

1. Checking the stock code(s) that may require replenishment and if below the minimum level generate a replenishment movement. (WHS0610)
2. Create the movement print and new labels if required (WHS0700)
3. Complete the movement (WHS0700)

Example -

Stock is located in bulk locations, but the stock codes assigned pick location is empty.



Stage 1- Go to the Bulk to Pick Replenishment screen (WHS0610)

Bulk to Pick Replenishment

Owner: ROB Warehouse: NFT 11-JUN-2025 WHS0610.v4.32

Log Messages

Parameters

Owner:

Stock Audit:

Stock code from:
to:

Aisle Code from:
to:

Location from:
to:

Option: Home Use

Order Type: Home Use

Confirm Abandon

Stock/Pallet Move Audit Number(s)

Block Movements

Parameters -

Enter the Stock Code 'From' and 'To' values
'Option' should be set to 'Replenish Case Pick'
'Order Type' should be set to 'Home Use'



Then select the **Confirm** button and the system will check the pick face level of the required stock codes and if applicable a replenishment movement will be generated. The Log messages section will display all the information for the generated replenishments.

2.2.3 Stock Movements

Stage 2 & 3 -

The replenishment is now ready to be completed as standard in the Stock Movements screen or via RF if enabled.

Parameters -

1. Select the **Accept/Confirm** button unless the replenishment is to be cancelled.
2. The **Print** button will now be enabled - select the button and print off documentation and labels if required.
3. Upon printing of the documentation and the movement being completed in the warehouse select the **Confirm** button to compete the replenishment on the system.

2.3 REPLENISHMENT FROM ALLOCATION WHEN A PICK FACE RUNS TO ZERO OR BELOW

2.3.1 Setup

Owner Maintenance -



Owner Maintenance

Company: DHL Department: FNSR 18-APR-2013 STS1000 v4.78

Owner: XXA 001 Petes Eats

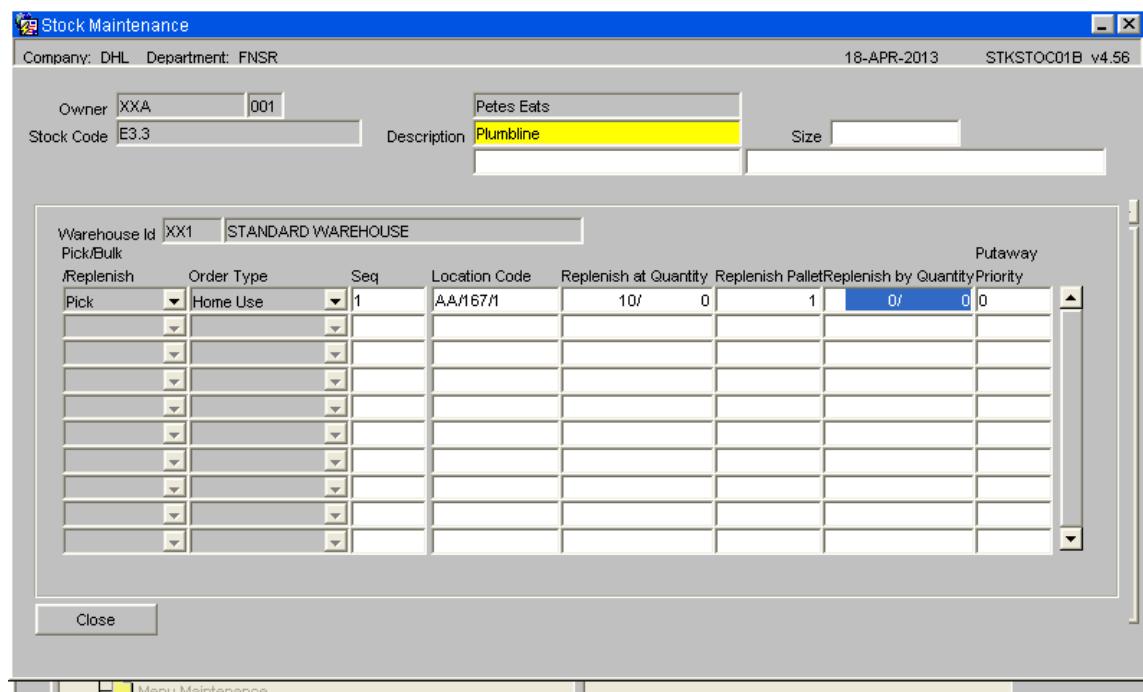
Main	General	Sales Order	Goods Rec'd	SOP C/H	External Int...	EDI Inbound	EDI Outbound	Charging	Def Bulk L...	Format	Owner Rules	Owner UOM	Serial Num...	Additional ...
Owner Stationery: No	Cheque Pay Name: <input type="text"/>	Delivery Days: <input type="text"/>	To Follow Text: <input type="text"/>	Dept at Order level: <input type="text"/>	Commission Rate Flag: No	Sequence No. Generate: Owners Range	Default Order Type: Home Use	Allocation Rules (1): As 6 Till OT then Rule 3 Rever	Pallet Level Flag: None	Line Type: 1				
POD Confirmation Level: Pallet	POD Signator: Yes	Packing List: <input type="text"/>	Back Order Indicator: No	Supply Other Customers: <input type="text"/>	Pay Terms: No	SOP Invoicing: None	JDE Transfer: No Invoicing Info...	(2): Replenish Bulk -> Pick	Pick Wave Max Orders: 10	Max Order Lines: 100				
Prevent Ordering: <input type="text"/>	Manifest Ref Required: No	Over Picking: No	Order Priority Del Dates: No	Enter Sellers Reference: No	Assembly Inst Reqd: Yes	Enter Order Value: No	Run Replenishment Report: Yes	(3): Replenish Bulk -> Pick	Indicate Last Pallet Pick: <input type="text"/>					
Allocation Pre-Pass: <input type="text"/>	Order Threshold %: 100.00	Allocate Pre Advice: No	Direct Hit Type: 0	POD By Despatch Note: No	Email Reqd: Yes	Validate Pack Despatch: Yes	Display Carrier Info: Yes	(4): Replenish Replen -> Pick	Default Pick Usage: Use Defined Picks					
					Email Address: Christine.Kinsella@obs-logistics.com.			(5): Replenish Bulk -> Rep -> Pick	Pre Receipt: No					
								Do NOT Replen in Allocation	Remove Stock ID: No	Service Level Flag: No				
									Use Replen Level in Allocation: <input type="text"/>					

Parameters -

1. Ensure that Allocation Rules are compatible with Replenishment, i.e. Allocation Rule '2' must be correctly enabled.
2. Set Run Replenishment Report to 'Yes'

Stock Maintenance / Stock Warehouse / Unbonded Stock Locations -





The Stock Code must have an assigned Pick Face, the Replenish at and Replenish by fields are not looked at when the process is started, this system will automatically move the next best pallet into the pick face.

2.4 Replenishment during the Allocation Process

Process -

An order is placed onto the system (generally line type 1, certain other line types do not use the replenishment functionality i.e. 3 & 4 which are targeting a specific rotation or pallet)

The order is allocated and the system determines from the setup of the owner and the stock code what the optimum stock to allocate to the order is.

If pick faces are in use, replenishment is enabled and dependent on the remaining Owner setup parameters the system will check the pick face, if there is not enough stock in the pick face or if the pick face is empty and the order quantity is less than a full pallet the system will generate a replenishment movement on the next pallet to be picked.

The pallet to be moved will have stock that requires picking to satisfy an order, dependent on the owner requirement, the stock can be picked off the pallet at either the bulk location and then moved into pick or the pallet can be moved first and then picked from the pick location.

2.4.1 Order Entry

Standard order line, Product and Quantity -



2.4.2 Order Allocation

Audit Log

Owner: XXA Warehouse: XX1 18-APR-2013 WHS1630W v4.2

Pick Face Defined. Location Code: AA1671

Processing Alloc_rule_1 = 6,7

In If of Alloc_rule_1 = 6,7

Pallet 334 Avail Case 50 Avail Units 0

Creating Movement Record With location code AA1671

Fetching the trans case And trans single from Ware Location Entries 50/0

Starting Allocation

Run by LEN DP_VMS_ALLOC v4.108

Moving 50/0 to location :AA1671

Creating record for location AA1671

Available cases: 50 - Ordered cases 20

Updating source ware location entries for location AA0023

Allocated 20/0 from location code AA1671 and pallet 334

Creating VMD for Audit No: 245 with location code AA1671 pallet id 334 type P

Inserted ware_location_entries record for AA1671

Ordered amount fully allocated.

Allocated 20/0

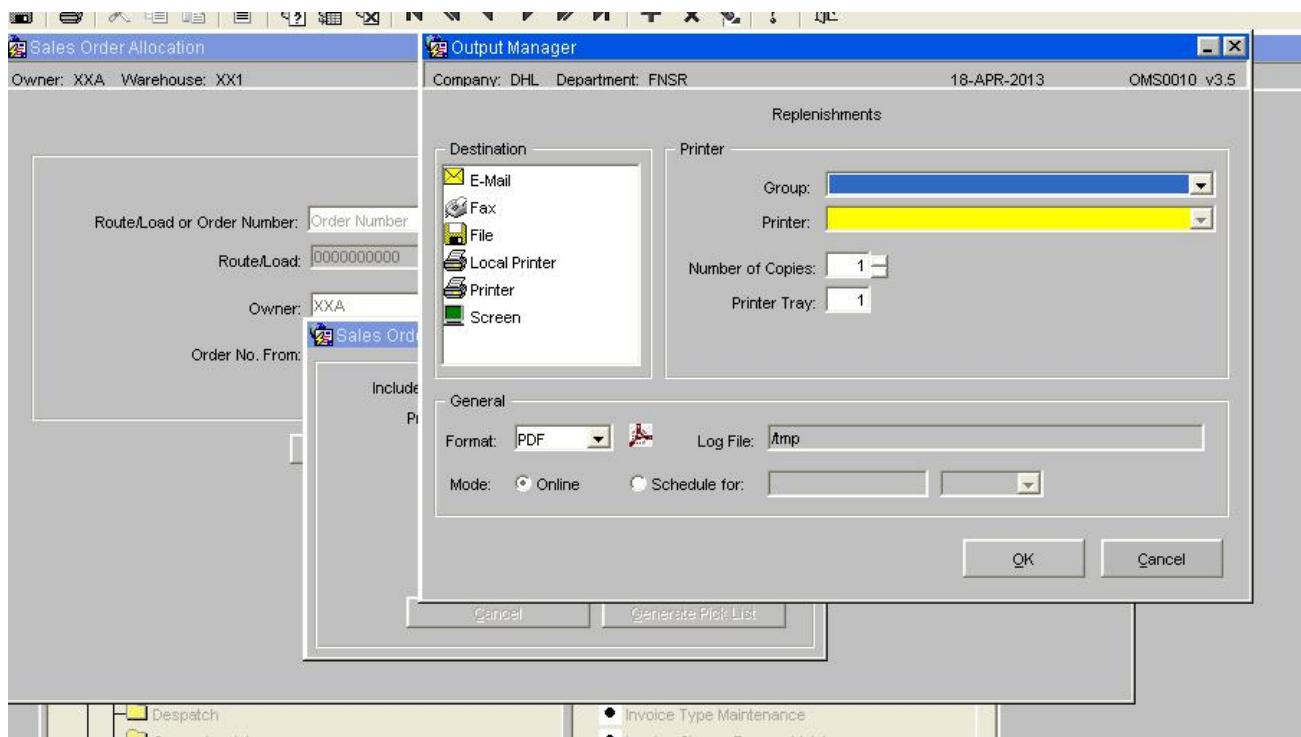
Updated Order Detail for Order Number XXA000000000000000141 Line Number 1

Attempting to Replenish Stock.

Updating Order Well (Prepass = N or 0)

The order is allocated as normal, the audit log show the allocated pallet and the movement audit number.





If a replenishment is generated a Replenishments report can be produced

WHR1700 4 v4.8		Replenishment Report		Page 1 of 1						
				Requested By: LEN Run: 18-APR-13 03:19 PM						
Warehouse:- Standard Warehouse Cutnall Green										
Owner:- Petes Eats		Audit No:- 245								
Standard Form										
Location From	Product Code / Description / Pieces per Ctn	Qty to Move	Pallet ID / Owner Pallet	Rotation / Owner Batch No.	Sell By Date	Location To	Order Number	Check Digit	Dependant On	Replenishment
AA/002/3	E3.3 Plumbline	50 /	0 334	+ +		AA/167/1 XXA000000000000000141				

A report can be produced listing all replenishments and the dependent order number(s)

2.4.3 Stock Movement

The replenishment is now ready to be completed as standard in the Stock Movements screen or via RF if enabled.



1. The **Print** button is now active - select the button and print off documentation and labels if required.
2. Upon printing of the documentation and the movement being completed in the warehouse select the **Confirm** button to complete the replenishment on the system.

 Note: If a replenishment has been generated from allocation then it must be closed before the pick confirmation process can be completed

2.5 REPLENISHMENT FROM ALLOCATION USING MINIMUM STOCK AND REPLENISHMENT LEVELS

2.5.1 Setup

Owner Maintenance -



Owner Maintenance

Company: DHL Department: FNSR 18-APR-2013 STS1000 v4.78

Owner: XXA 001 Petes Eats

Main General Sales Order Goods Rec'd SOP C/H External Int... EDI Inbound EDI Outbound Charging Def Bulk L... Format Owner Rules Owner UOM Serial Num... Additional ...

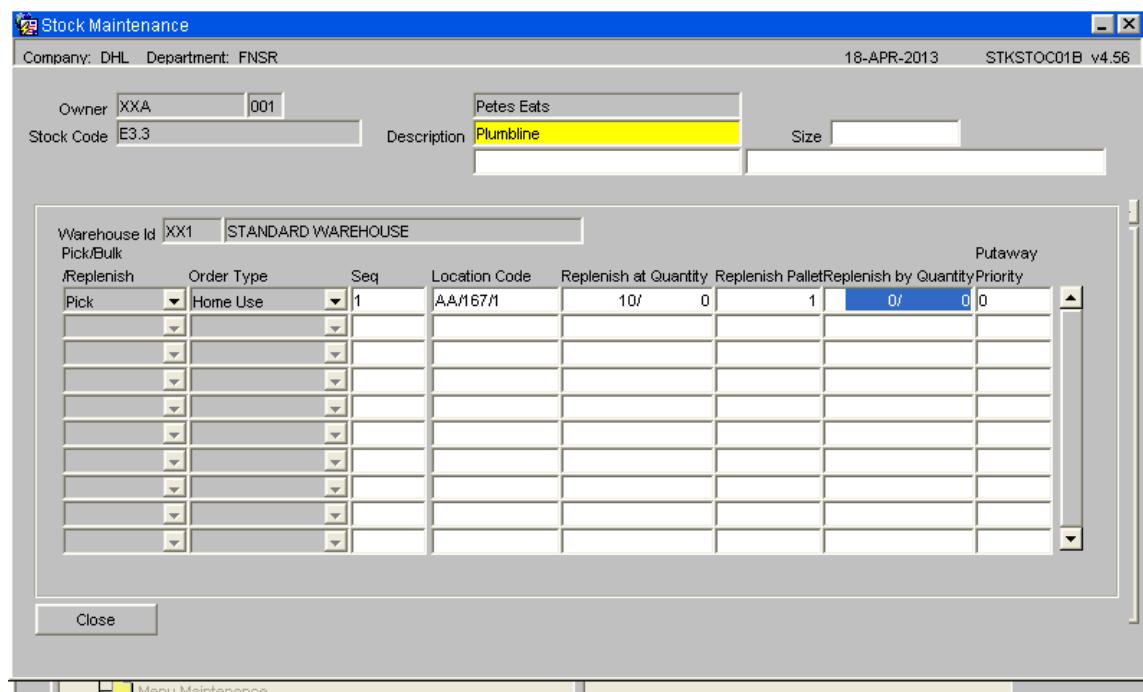
Owner Stationery : <input type="button" value="No"/>	Cheque Pay Name : <input type="text"/>	Pallet Level Flag : <input type="button" value="None"/>
Delivery Days : <input type="text"/>	To Follow Text : <input type="text"/>	Line Type : <input type="button" value="1"/>
Dept at Order level : <input type="button"/>	Commission Rate Flag : <input type="button" value="No"/>	Pick Wave Max Orders : <input type="button" value="10"/>
POD Confirmation Level : <input type="button" value="Pallet"/>	Sequence No. Generate : <input type="button" value="Owners Range"/>	Max Order Lines : <input type="button" value="100"/>
POD Signator : <input type="button" value="Yes"/>	Default Order Type : <input type="button" value="Home Use"/>	Indicate Last Pallet Pick : <input type="button"/>
Packing List : <input type="button"/>	Allocation Rules (1) : <input type="button" value="As 5 Till OT then Rule 3 Rever"/>	Allocation Pre-Pass : <input type="button" value="Accept Shortages"/>
Back Order Indicator : <input type="button" value="No"/>	(2) : <input type="button" value="Replenish Bulk -> Pick"/>	Default Pick Usage : <input type="button" value="Use Defined Picks"/>
Supply Other Customers : <input type="button"/>	(3) : <input type="button" value="Part After Full - Move to Pic"/>	Pre Receipt : <input type="button" value="No"/>
Pay Terms : <input type="button" value="No"/>	(4) : <input type="button" value="Blk and Prt (Cmb) from Alloc"/>	Remove Stock ID : <input type="button" value="No"/>
SOP Invoicing : <input type="button" value="None"/>	(5) : <input type="button" value="No print for Con PL at ALL/PCK"/>	Service Level Flag : <input type="button" value="No"/>
JDE Transfer : <input type="button" value="No Invoicing Info..."/>	Allocation Pre-Pass : <input type="button" value="Accept Shortages"/>	Use Replen Level in Allocation : <input type="button" value="Yes"/>
Prevent Ordering : <input type="button"/>	Order Threshold % : <input type="button" value="100.00"/>	
Manifest Ref Required : <input type="button" value="No"/>	Allocate Pre Advice : <input type="button" value="No"/>	
Over Picking : <input type="button" value="No"/>	Direct Hit Type : <input type="button" value="0"/>	
Order Priority Del Dates : <input type="button" value="No"/>	POD By Despatch Note : <input type="button" value="No"/>	
Enter Sellers Reference : <input type="button" value="No"/>		
Assembly Inst Reqd : <input type="button" value="Yes"/>	Email Reqd : <input type="button" value="Yes"/>	Email Address : <input type="text" value="Christine.Kinsella@obs-logistics.com."/>
Enter Order Value : <input type="button" value="No"/>	Validate Pack Despatch : <input type="button" value="Yes"/>	Display Carrier Info : <input type="button" value="Yes"/>
Run Replenishment Report : <input type="button" value="Yes"/>		

Ensure that Allocation Rules are compatible with Replenishment, i.e. Allocation Rule '2' must be correctly enabled.

Set Run Replenishment Report to 'Yes'
Use Replen Level in Allocation to 'Yes'

Stock Maintenance / Stock Warehouse / Unbonded Stock Locations -





The Stock Code must have an assigned Pick Face, a Replenish at Quantity and a Replenish by value

2.5.2 Replenish during Allocation using minimum Quantity Levels

Process -

An order is placed onto the system (generally line type 1, certain other line types do not use the replenishment functionality i.e. 3 & 4)

The order is allocated and the system determines from the setup of the owner and the stock code what the optimum stock to allocate to the order is.

If pick faces are in use, replenishment is enabled and dependent on the remaining Owner setup parameters the system will check the pick face, if there is not enough stock in the pick face or if the pick face is empty and the order quantity is less than a full pallet the system will generate a replenishment movement on the next pallet to be picked. In addition the system will then check the Replenish at Quantity, if the stock in the pick face is less than this value it will create a replenishment for the quantity of stock held in the Replenish by fields, i.e. pallet, case or unit or a combination.

2.5.3 Order Entry



Order is entered on to the system -

Audit Log

Owner: XXA Warehouse: XX1 18-APR-2013 WHS1630W v4.2

Ware Pick Header Record With Page Num : 1 Created for order number XXA0000000000000000142

Writing Pick Record (VDD) With Page Num : 1 Line no : 1

Ordered amount fully allocated.

Writing Pick Record (VDD) With Page Num : 1 Line no : 2

Allocated 11/0 from location code AA1671 and pallet 0

Updating source ware location entries for location NP0021

Available cases: 50 - Ordered cases 11

Creating VMD for Audit No: 246 with location code AA1671 pallet id 0 type P

Moving: 50/0 to location : AA1671

Inserted ware_location_entries record for AA1671

Creating record for to location AA1671

Fetching the trans case And trans single from Ware Location Entries 50/0

Creating Movement Record With location code AA1671

Pallet 0 Avail Case 50 Avail Units 0

In If of Alloc_rule_1 = 6,7

Updating Order Well (Prepass = N or 0)

Updating Order Header

Locks released 15:27:48

18-APR-2013 15:27:48

***** ALLOCATION COMPLETE *****

Order is allocated and the audit log shows a generated replenishment due to the stock levels in the pick face falling below the minimum quantity level.



2.5.4 Pick List

WHR1700_FW1 v4.33	Page : 1																																																																		
Standard Pick List																																																																			
Distribution Center :- Standard Warehouse Cutnall Green Worcestershire Droitwich WR9 0NS GB																																																																			
Owner :- Petes Eats 40 High Street Llanberis LL55 4HU GB																																																																			
Deliver To :- The Crafty Croc 194 Adobe Road New Town SC12 A33																																																																			
Printed : 18-Apr-2013 at 15:28																																																																			
Pick List : 213																																																																			
Username : LEN																																																																			
Booked : 18-Apr-2013 at																																																																			
Pick Finish : _/_/_																																																																			
Haulier :																																																																			
Picker : _____																																																																			
Marshalling Area : MA/999/9																																																																			
Order Type : Home Use																																																																			
System Order No : XXA0000000000000000142	Owner Order Ref : 142																																																																		
Customer Ord Ref :																																																																			
Special Instructions/Remarks:-																																																																			
<table border="1"> <thead> <tr> <th>Location</th> <th>Product Code / Description/(Size)</th> <th>Customer Product Code</th> <th>Replen Audit No</th> <th>Sys/Owner Rotation</th> <th>Sys/Owner Pallet ID</th> <th>Sell By Date</th> <th>Qty Cases/Units</th> <th>Volume</th> <th>Weight</th> <th>Chk Pallet</th> </tr> </thead> <tbody> <tr> <td>AA/167/1</td> <td>E3.3 Plumblime</td> <td></td> <td>246</td> <td>+</td> <td>0</td> <td></td> <td>11/ 0</td> <td>0.00</td> <td></td> <td>-----</td> </tr> <tr> <td>AA/167/1</td> <td>E3.3 Plumblime</td> <td></td> <td></td> <td>+</td> <td>334</td> <td></td> <td>30/ 0</td> <td>0.00</td> <td></td> <td>1</td> </tr> <tr> <td colspan="2">Page Total</td><td></td><td></td><td></td><td></td><td></td><td>41/ 0</td><td>0.00</td><td></td><td></td></tr> <tr> <td colspan="2">Running Total for Order Number : XXA0000000000000000142</td><td></td><td></td><td></td><td></td><td></td><td>41/ 0</td><td>0.00</td><td></td><td></td></tr> <tr> <td>1st Checker : _____</td><td>2nd Checker : _____</td><td></td><td></td><td></td><td></td><td></td><td>Loaded By : _____</td><td></td><td></td><td></td></tr> </tbody> </table>		Location	Product Code / Description/(Size)	Customer Product Code	Replen Audit No	Sys/Owner Rotation	Sys/Owner Pallet ID	Sell By Date	Qty Cases/Units	Volume	Weight	Chk Pallet	AA/167/1	E3.3 Plumblime		246	+	0		11/ 0	0.00		-----	AA/167/1	E3.3 Plumblime			+	334		30/ 0	0.00		1	Page Total							41/ 0	0.00			Running Total for Order Number : XXA0000000000000000142							41/ 0	0.00			1st Checker : _____	2nd Checker : _____						Loaded By : _____			
Location	Product Code / Description/(Size)	Customer Product Code	Replen Audit No	Sys/Owner Rotation	Sys/Owner Pallet ID	Sell By Date	Qty Cases/Units	Volume	Weight	Chk Pallet																																																									
AA/167/1	E3.3 Plumblime		246	+	0		11/ 0	0.00		-----																																																									
AA/167/1	E3.3 Plumblime			+	334		30/ 0	0.00		1																																																									
Page Total							41/ 0	0.00																																																											
Running Total for Order Number : XXA0000000000000000142							41/ 0	0.00																																																											
1st Checker : _____	2nd Checker : _____						Loaded By : _____																																																												

Generated Pick List showing the Replen Audit No:

WHR1700 4 v4.8	Replenishment Report	Page 1 of 1						
		Requested By: LEN						
Run: 18-APR-13 03:29 PM								
Warehouse:- Standard Warehouse Cutnall Green								
Owner:- Petes Eats Audit No:- 246								
Standard Form								
Location From	Product Code / Description /	Qty to Move	Pallet ID / Owner Pallet	Rotation / Owner Batch No.	Sell By Date	Location To	Order Number	Check Digit
NP/002/1	E3.3 Plumblime	50 /	0 0	+		AA/167/1	XXA0000000000000000142	-----

System generated Replenishment Report -

2.5.5 Stock Movement

The replenishment is now ready to be completed as standard in the Stock Movements screen or via RF if enabled.



1. The **Print** button is now available - select the button and print off documentation and labels if required.
2. Upon printing of the documentation and the movement being completed in the warehouse select the **Confirm** button to complete the replenishment on the system.

 **Note:** Unlike the previous process, it may not be necessary for the movement to be completed before entering the pick details in Pick Confirmation as there is sufficient stock in the pick face to satisfy the order, this movement will in effect be a top up.

2.6 SUPPORTING PROCESSES

2.6.1 Configurable EDI

Using the configurable EDI functionality it is possible to upload a file containing the Stock Code, Pick Face, Minimum Quantity and Replenish Quantity.

All key values are maintained in the EDI Structure STK_LOCATION.

 **Note:** Refer to the EDI Wiki Guide for details on setup of the Configurable EDI functionality

2.6.2 Reports

Pick Location by Stock Report (WHS1001) -



Report : WHR1001 v1.4			DHL-Excel		Page : 1 of 1		
			PICK LOCATION BY STOCK REPORT		Date : 22-Apr-13 15:42		
			<----- Replenishment ----->				
Location Code	Owner	Product Code	Description	Amount	Level	Pallets	
AA/150/1	XXA	001 5.10	Supercrack, 999A	0 /	0	1 /	0 1
AA/153/1	XXA	001 E3	Plumbline	0 /	0	10 /	0 1
AA/167/1	XXA	001 E3.3	Plumbline	0 /	0	10 /	0 1
AA/153/1	XXA	001 E6	The Rainbow of Recalcitrance	0 /	0	1 /	0 1

End Of Report WHR1001

The report shows all stock codes setup with assigned pick faces with their replenishment levels.

Oracle Data Extract (ORS0100) -

Oracle Reporting Control

Company: DHL Department: FNSR 22-APR-2013 ORS0100

Next Report Report Type STOCK Report Level LOCATION Saved Reports STK_REP Create XLS Refresh

Level	Title	Displayed Title	Sel	From	To	Sort Req	Inc Seq
HEADER	Kit Flag	Kit Flag	N			N	
HEADER	Transit Factor	Transit Factor	N			N	
HEADER	Description3	Description3	N			N	
HEADER	ABC Code	ABC Code	N			N	
HEADER	Cases Per Layer	Cases Per Layer	N			N	
HEADER	Layers Per Pallet	Layers Per Pallet	N			N	
HEADER	Capacity Weight	Capacity Weight	N			N	
HEADER	Weight UOM	Weight UOM	N			N	
HEADER	Length UOM	Length UOM	N			N	
HEADER	Volume UOM	Volume UOM	N			N	
LOCATION	Warehouse	Warehouse	R			N	
LOCATION	Location Type	Location Type	N			N	
LOCATION	Location Code	Location Code	N			N	
LOCATION	Replenish at Quantity	Replenish at Quantity	N			N	
LOCATION	Replenish Pallet	Replenish Pallet	N			N	
LOCATION	Replenish Quantity	Replenish Quantity	N			N	
LOCATION	Putaway Priority	Putaway Priority	N			N	

Clear All Selection Values Include ALL Include None

Save Report Copy Report to another User Delete This Report

Using the Oracle Data Extract screen (ORS0100) the system allows for the extraction and reporting of data to help setup and maintain pick faces and their replenishment levels.



3 Document History

Version	Date	Status	Reason	Initials
Version 1	13/05/2013	In Progress	User Guide	LBW

Copyright Aptean © 2008

The information contained herein is the property of Aptean and is supplied without liability for errors or omissions. No part may be reproduced or used except as authorised by contract or other written permission. The copyright and foregoing restriction on reproduction and use extend to all media in which the information may be embodied

