

Aptean

# Using WCS from WMS Guide

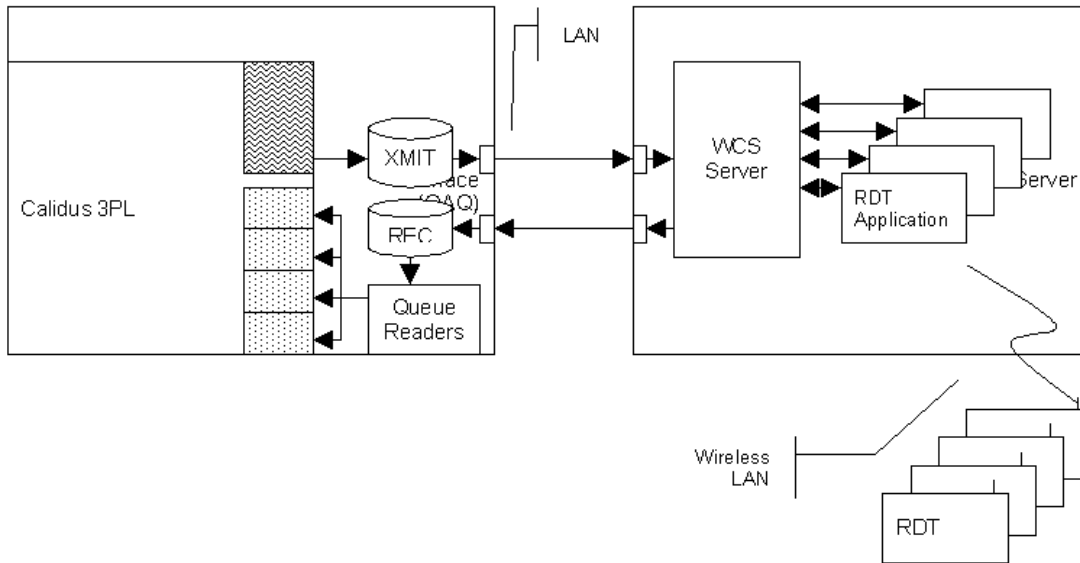
WCS - 3.4

24th November 2011 - 11.1  
Reference: UG 106181

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# 1 System Overview



## 1.1 Operation

As can be seen from the diagram, Calidus 3pI runs on a UNIX server, while Calidus 3pI-Mobile runs on a Windows Server in this implementation.

In the diagram, Calidus 3pI has been split into three areas.

The non-shaded area is the manual Calidus 3pI system, being the screens and methods currently used to enter and confirm tasks.

The wavy shaded area shows the portion of Calidus 3pI that sends messages to the WMS interface. These are covered in great detail in following sections.

The dotted area contains Calidus 3pI RDT update programs that automatically do the work of the confirmation processes in manual Calidus 3pI. For example, one of these processes might confirm movements; another might confirm orders as picked. They work by receiving confirmation of tasks completed from Calidus 3pI-Mobile. Those messages (of tasks to be completed, and confirmation of tasks completed) are sent by the interface.

Both systems have an interface; Calidus 3pI's is referred to as the WMS interface, Calidus 3pI-Mobile's as the WCS interface. Both need transmitters (to send their messages) and receivers to get messages back. As can be seen from the diagram, Calidus 3pI sends messages to Calidus 3pI-Mobile's receiver program, WCS Server through an Oracle Advance Queue. When messages are being sent back to Calidus 3pI, Calidus 3pI-Mobile's transmitter program, also WCS Server, sends messages to Calidus 3pI by enqueueing messages on Oracle Advance Queues in the WMS database.

The third part of the interface consists of the Merge processes. In Calidus 3pI, these consists of many processes which we route messages to using the Queue Reader processes. These route the messages to the Merge processes (dotted area of the RDT update programs).

So, let's look at the progression of tasks through this system from start to finish. For this example, we'll use a simple housekeeping pallet movement.

When the task (move pallet 1 from A to B) is raised, the message is passed to the WMS Interface Queue. The Queue



passes the information to the WCS Server. Note: Only when the message is fully processed is this removed from the queue, ensuring messages are never lost).

Once WCS's receiver has the message, merges the message to the database. This identifies the type of message (a pallet movement), and checks that everything is OK about the messages *contents*. *When satisfied of the contents, the task is put in the main WCS database, ready for use.*

When an RDT user requests a task, and they are to be allocated movement tasks, WCS will allocate the closest movement to that user's location, or in priority order. In our example, this means they are given the movement we raised on Calidus 3*pl*. They are told to get the pallet 1 from location A and take it to location B, there scanning the check digits of the destination for confirmation.

Once they have completed the task, Calidus 3*pl*-Mobile sends a completion message to the Calidus 3*pl* receiver queue.

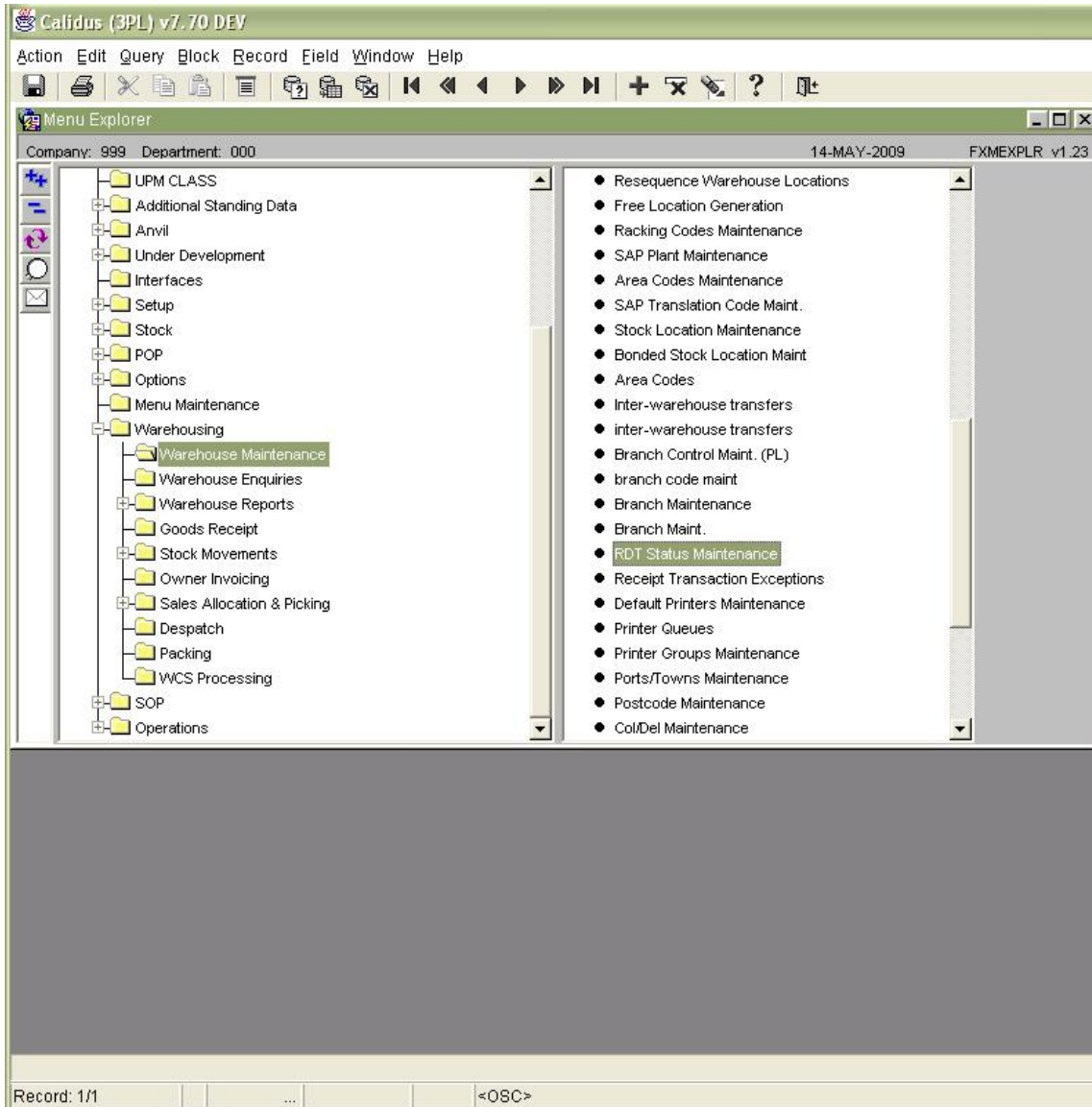
The Queue Reader associated to the queue identifies the type of message, in our example, a movement completion message. The message is then routed to the correct RDT update process. Again, messages are only removed from the queue when correctly processed.

The RDT update process examines the contents of the message for validity, and then updates all the Calidus 3*pl* data files that you would expect if it was confirmed manually in the Pallet Move Confirmation screen.



## 2 RDT Control Processes

### 2.1 Menus



The menu is normally located on the top flexible menu.

### 2.2 System Parameters

In order to send RDT messages or tasks to Calidus 3p-Mobile, the Calidus 3p/ system must be informed that the Interface to Calidus 3p-Mobile is present. This is enabled via the 'RDT Interface' flag on system parameters.



Calidus (3PL) v7.70 DEV

Action Edit Query Block Record Field Window Help

System Parameters Maintenance

Owner: PJH Warehouse: PH1 14-MAY-2009 WHS0010 v4.5

Main Goods In Default Locations

Auto Log Display ☐ Yes ☒ No

Pick Note Lines: 99

Pal Move Lines: 99

Area Code Length: 3

Aisle Code Length: 2

Bay Code Length: 2

Level Code Length: 1

Max Rot Length: 11

Audit Flag: 1

Loc. Check Digits: No Processes

Loc Delimiter: Forward Slash /

Rotation Type: Generated with manual override

Consolidated allocation:

Pallet Label Copies: 1

Case Label Copies: 1

Auto Label Production ☒ Yes ☐ No

Warehouse Display Code: 2

Height of Pick Pallet(MM): 99

Pallet Type:

Buying Responsibility ☐ Internal ☒ External

Display On Hand in StockTake ☐ Yes ☒ No

RDT Interface ☐ Yes ☒ No

Print Location on Label ☐ Yes ☒ No

Pallet Level Flag: None

Dec Pallet Break: 1.00

Cases Pallet Break: 50

Pick by Component ☒ Yes ☐ No

Reduce Stk At: Despatch Confirmation

Marshall Required ☒ Yes ☐ No

Record: 1/1 <OSC>

Click on the Default Locations tab to identify the default locations required.

System Parameters Maintenance

Owner: PJH Warehouse: PH1 14-MAY-2009 WHS0010 v4.5

Main Goods In Default Locations

Build up Locations

ID Station

Reject Spur at ID Station

Q/A: MARCN

Turntable

Input Spur to Conveyor

Default Marshalling Location: MAID1

Default Despatch Bay Location

Pre-Advice Virtual Location

Quarantine in Marshall

Auto Bulk Reject

Default Ship Pallet Build Locn: A3085

Default Damages: GA601

Default Returns: QA601

Banded Putaway Locations

Unbanded Putaway Locations

Assembly Location: A3031

Build up location 3 (Q/A) is the default putaway location, if the putaway algorithm finds no locations. Location 6 is a Default Marshalling Location, used by pick list and allocation.



## 2.3 Owner parameters

An RDT Interface flag also exists per Owner or Stockist. With this flag, we are able to determine whether, even if the warehouse allows RDT operations, the owner allows RDT operations.

**Calidus (3PL) v7.70 DEV**

Action Edit Query Block Record Field Window Help

Owner System Parameter Maintenance

Owner: PJH Warehouse: PH1 14-MAY-2009 WHS0012 v1.14

Main Goods In Default Locations

Pick Note Lines : <input type="text" value="39"/>	Pallet Label Copies : <input type="text" value="1"/>
Pallet Move Lines : <input type="text" value="99"/>	Case Label Copies : <input type="text" value="1"/>
Auto Log Display : <input checked="" type="radio"/> Yes <input type="radio"/> No	Auto Label Production : <input checked="" type="radio"/> Yes <input type="radio"/> No
Area Code Length : <input type="text" value="2"/>	Other Pallet Label : <input type="text" value=""/>
Aisle Code Length : <input type="text" value="3"/>	Both Pallet Label Flag : <input checked="" type="radio"/> Yes <input type="radio"/> No
Bay Code Length : <input type="text" value="3"/>	Height of Pick Pallet (cm) : <input type="text" value="1"/>
Level Code Length : <input type="text" value="1"/>	Warehouse Display Code : <input type="text" value="1"/>
Max Rot Length : <input type="text" value="11"/>	Buying Responsibility : <input checked="" type="radio"/> Internal <input type="radio"/> External
Interface Flag : <input type="radio"/> Yes <input checked="" type="radio"/> No	Display On Hand in Stocktake : <input type="radio"/> Yes <input checked="" type="radio"/> No
Pick by Component : <input type="radio"/> Yes <input checked="" type="radio"/> No	Print Location on Label : <input type="radio"/> Yes <input checked="" type="radio"/> No
Loc. Check Digits : <input type="text" value="No Processes"/>	Pallet Level Flag : <input type="text" value="None"/>
Loc Delimiter : <input type="text" value="Forward Slash /"/>	Dec Pallet Break : <input type="text" value="1.00"/>
Rotation Type : <input type="text" value="Generated"/>	Cases Pallet Break : <input type="text" value="50"/>

Record: 1/1 <OSC>

In all ways, this bank of screens operates in the same way as the System parameters screens, described above.

## 2.4 RDT Status Maintenance Screen

This screen is the major control screen for RDTs in Calidus 3p/



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Action Edit Query Block Record Field Window Help


Warehouse RDT Status Maintenance

Owner: PJH Warehouse: PH1 14-MAY-2009 WHS7920 v4.3

RDT Function	Code	Available	Last Changed
Receipt Update	601	Yes	20-Jul-27 12:00:00
Pallet Move Update	611	Yes	20-Jul-27 12:00:01
Pick Update	621	Yes	20-Jul-27 12:00:02
Aisle Status Update	631	Yes	20-Jul-27 12:00:03
Pallet Enquiry	651	Yes	20-Jul-27 12:00:04
Stock Take Update	671	Yes	20-Jul-27 12:00:05
Despatch Update	681	Yes	20-Jul-27 12:00:06
Location/CD Validation	691	Yes	20-Jul-27 12:00:07
Location Enquiry	711	Yes	20-Jul-27 12:00:08
Owner Validation	721	Yes	20-Jul-27 12:00:09

Avail Hold

Start Interface Stop Interface

Interface On 

Record: 1/1 ... <OSC>

Each line controls not only the running of the update process in Calidus 3pl, but also the availability of the functions to standard Calidus 3pl processing. So, for example, if the Pallet Receipt Update availability flag is 'Y', you have the ability to send receipt preadvice messages to WCS. If it is 'N', you can't send those messages.

The use of the availability flags in the system will be explained for each sending process described in the next section.

Use 'Start Interface' to start the RF interface programs.

Use 'Stop Interface' to stop the RF interface programs.

The light below these buttons indicates whether the interface is on or off.

**The use of this screen should be limited to System Administrators only.**





## 3 SENDING DATA

### 3.1 Standing Data tables

See the C3PL-M Setup guide, for details of how this data is used in the Calidus 3*p*-Mobile.

Various data tables on Calidus 3*p* need to be sent to Calidus 3*p*-Mobile. These tables are:

- Employees
- Truck Types
- Pallet Types
- Location Types
- Reason Codes
- Receipt Types
- Aisles Status/Aisles
- Stock information

The maintenance screens for these tables can be found (by default) on the Warehouse maintenance menu. The exception to this is the Stock Maintenance screen, normally found on the Stock menu.

To perform an initial send of the data to Calidus 3*p*-Mobile, enter the form and find data. Once found, click the Send button on the form, which will only be visible if the Interface flags for the owner and warehouse are enabled. The whole file will be sent.

Also, during normal use of the screens, any added or deleted data is sent to Calidus 3*p*-Mobile, to keep the files accurate. Simply use the screen as normal, and the data will be sent, as long as the interface flags are turned on.

### 3.2 Preadvices

Enter the preadvice as normal, either with or without pallet details.

Once all details have been entered, click the 'Send' button on the main preadvice screen. Tasks per pallet will be sent to Calidus 3*p*-Mobile. You can only send preadvice records this way if the availability flag of the Pallet Receipt Update process is set to 'Y'.

The screenshot shows a software window titled "Goods Received Advice". At the top, it displays "Owner: PUH Warehouse: PH1" and the date "14-MAY-2009". The form includes several input fields: "Owner Code" (PUH), "Test Owner" (001), "Goods Receipt/Return" (Non Purchase Order), "GRN No." (1), "BOL / EDI" (BOL / EDI), "Expected Date" (26-JUL-2007), "Supplier" (SUPPLIER), "Advice" (AD1), "Bay" (1), "Full Bonded" (No), "Temporary Bonded" (No), "Container No.", "Instructions", "HAWB No.", "Invoice No.", and "HAWB No.". At the bottom right, there are three buttons: "Send", "Cancel GRN", and "Print".

Sending the preadvices to Calidus 3*p*-Mobile need only be done this way if the Goods had not been preadvised via EDI. In this process, all messages will be automatically sent to Calidus 3*p*-Mobile on receipt of the EDI.



Once pallets have been received on Calidus 3*p*/Mobile and sent back to Calidus 3*p*/ they will automatically be updated.

**Note:** In unexpected scenarios (e.g. unexpectedly received pallets) the Goods Receipt Note will NOT be automatically confirmed as received. The pallets, which have processed correctly, will have been confirmed but no action will have been taken on other pallets. You will still be able to put the correctly processed pallets away. In order to confirm the GRN fully, you must access the GR Confirmation screen and use the Confirm process there. Until this action is taken, the GRN will continue to appear on diagnostic reports. See section 5.2 for more details.

### 3.3 Putaways

When the Goods Receipt has been processed on Calidus 3*p*/Mobile, update messages are sent back to Calidus 3*p*/. The Pallet Receipt Update program, controlled by the RDT Start/Stop screen processes these. When the program processes the receipt messages, it will generate a putaway location for the pallet automatically. This is sent through to Calidus 3*p*/Mobile as a putaway task.

If a location cannot be found for the pallet, the putaway location will default to the third build-up location on system parameters, the Q/A location.

If, however, you have the availability flag of the Pallet Receipt Update process set to 'N' and the flag for Movement/Putaway Update process set to 'Y', you can send putaway messages a different way.

When the flags are set up this way, preadvice messages can't be sent to WCS, but putaway messages can. When you have created the goods receipt in Calidus 3*p*/, enter locations as normal in Goods receipt confirmation.



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Action Edit Query Block Record Field Window Help

Goods Receipt Confirmation

Owner: PJH Warehouse: PH1 14-MAY-2009 WHS0150 v4.70

Owner Code: PJH 001 Test Owner Supp Code: SUPPLIER 001 Temporary Bonded: No

GRN No: 88 Advice: ADV111 Supplier Full Name: xxxxxxxxxxxxxxxx Full Bonded: No

BIOL / EDIT Send Confirmed: No

GRN Conf.

- Additional Details
- GRN Prints
- Details
- Header Details
- Confirm
- Container Seal Numbers
- Cross-Docking

Stock

300005781	Assassin's Creed EXP
300005781S	Assassin's Creed EXP
300005787	Assassin's Creed
300005791	Assassin's Creed

Country: GB Great Britain

Owner: PJH 001

Size: Each

Order No: 7

Expected Qty: 10 0

On Hand Qty: 0 0

Pallets: 0

Complete: N

Record: 1/4 ... <OSC>

When the 'Confirm' option is chosen, the receipt is confirmed and then putaway messages are sent to Calidus 3p-Mobile, with the locations that you specified.

Once the putaway messages have been processed, the pallets will be available in the system.

### 3.4 Pallet Moves

Pallet movements sent to Calidus 3p-Mobile are processed in almost exactly the same way as normal. Pallet movements are raised via the Pallet Movement Request screen as normal. In the Ticket Print screen, you will be prompted for two extra items:



If you do not want to print the move ticket, enter 'No' at the appropriate prompt. You must then enter a priority for the messages. This priority will indicate how quickly the messages are processed in Calidus 3*p*-Mobile. The values range from 2 (the highest) to 9 (the lowest).

After this entry, the request is processed as normal, but with movement messages being sent to Calidus 3*p*-Mobile.

## 3.5 Replens

Replenishments are processed in the same way as pallet movements.

## 3.6 Picks

Pick tasks are sent to the RDTs at the normal pick list stage. This stage can be reached through a number of screens, the most common being the Pick Wave screen.

### 3.6.1 Pick Wave

Orders can be found and allocated to a Pick Wave, using this screen.



Calidus (3PL) v7.70 DEV

Action Edit Query Block Record Field Window Help

PickWave Maintenance

Company: JP1 Department: 0000 14-MAY-2009 LAS0312 v4.50

Route/Load: DEF001 / Status: ☐ Open

Owner: DRM 001 Shipment Id: Lines: No filter by lines

Order Status: + All Customer Ref:

Order Priority: Address Line:

Product Type: Carrier Code:

Depot Code: Routing Code:

Order No. From: 00000000000000000000 To: ZZZZZZZZZZZZZZZZZZZZ Select Type:

Assigned/Maximum Totals: Orders - 10 Order Lines - 200 0 Volume: 0.00 CBM

Find Orders

Priority	Order Number	Product Type	Status	Booking Date/Time	Ordered Cases / Units	Ord Lines	Volume/H/P	Shipment Id	Customers Name
<input type="checkbox"/>	DRM00000000000000000535	A	5	26-MAY-2006 00:00	2	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000536	A	5	26-MAY-2006 00:00	2	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000537	A	5	26-MAY-2006 00:00	1	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000539	A	5	26-MAY-2006 00:00	2	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000541	A	5	26-MAY-2006 00:00	3	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000543	A	5	30-MAY-2006 00:00	1	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000600	A	5	05-JUN-2006 00:00	2	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000645	1	5	21-JUN-2006 00:00	1	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000701	0	5	03-JUL-2006 00:00	51	0	1	0.04	
<input type="checkbox"/>	DRM00000000000000000704	1	5	03-JUL-2006 00:00	1	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000724	A	5	05-JUL-2006 00:00	10	0	1	21.60	
<input type="checkbox"/>	DRM00000000000000000726	A	5	06-JUL-2006 00:00	1	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000728	A	5	06-JUL-2006 00:00	1	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000734	1	5	10-JUL-2006 00:00	1	0	1	0.00	
<input type="checkbox"/>	DRM00000000000000000741	A	5	10-JUL-2006 00:00	4	0	1	8.64	

Assign All Deassign All Assign Number Assign Number Replen Report Add to Existing

Record: 1/211 <OSC>

Enter a default load then click 'Find Orders' to display the orders. Criteria can be entered here to narrow down the orders to be found.

Once found, assign the orders to the Load using the check box next to the order, then save.

PickWave Maintenance

Company: JP1 Department: 0000 14-MAY-2009 LAS0312 v4.50

Route/Load: DEF001 / Status: ☐ Open

Owner: DRM 001 Shipment Id: Lines: No filter by lines

Order Status: + All Customer Ref:

Order Priority: Address Line:

Product Type: Carrier Code:

Depot Code: Routing Code:

Order No. From: 00000000000000000000 To: ZZZZZZZZZZZZZZZZZZZZ Select Type:

Assigned/Maximum Totals: Orders - 10 Order Lines - 200 0 Volume: 0.00 CBM

Find Orders

Priority	Order Number	Product Type	Status	Booking Date/Time	Ordered Cases / Units	Ord Lines	Volume/H/P	Shipment Id	Customers Name
<input checked="" type="checkbox"/>	DRM00000000000000000726	A	5	06-JUL-2006 00:00	1	0	1	0.00	
<input checked="" type="checkbox"/>	DRM00000000000000000728	A	5	06-JUL-2006 00:00	1	0	1	0.00	
<input checked="" type="checkbox"/>	DRM00000000000000000734	1	5	10-JUL-2006 00:00	1	0	1	0.00	
<input checked="" type="checkbox"/>	DRM00000000000000000741	A	5	10-JUL-2006 00:00	4	0	1	8.64	

Assign All Deassign All Assign Number Assign Number Replen Report Add to Existing

Click the 'Send to Alloc' button to allocate the load.

Once allocation is complete, the order can be pick listed using the 'Send To Pick' button.



[illegible]

When you have chosen the parameters, click the 'Generate Pick List' button. This will produce a paper pick list if desired, and will also transfer the pick tasks to Calidus 3pl-Mobile for completion.

If you allocate and pick list by separate processes in the menus, you will be prompted to enter the extra parameters at the Pick List stage:

The Marshalling location is the lane to which you wish the picked pallets to go. If one is not entered, the system will default the location to the Default Marshalling Location in the system parameters screen. The RDT priority affects how quickly the pick tasks will be allocated to a picker. As with other RDT process priorities, this can be set from 2 to 9, 2 being the highest priority.

When you have chosen the parameters, click the 'Generate Pick List' button. This will produce a paper pick list if desired, and will also transfer the pick tasks to Calidus 3pl-Mobile for completion.

### 3.7 Pick Modifications

If you have short-picked an item or the pickers have not found some pallets, these tasks will be sent back to Calidus 3pl, and will reduce the amount picked. The shortfall must be appended onto the order. This is achieved by adding lines at pick confirmation, but without confirming the order.

First, find the order in the Pick confirmation by route/load/order screen:

Select the required page of the order. You will be taken to the confirm screen.





Calidus (3PL) v7.70 DEV

Action Edit Query Block Record Field Window Help

Pick List Confirmation

Owner: DRM Warehouse: NFT

14-MAY-2009 WMS1710A v4.43

Owner: DRM 001

Product Type: 1

Picker: 001 Employee 001

Order: DRM00000000000000755

Page Num: 1

Checker: 001 Employee 001

Route/Load: DEF001/000326

Customer:

Pick Date: 14-MAY-2009

Number of Pallets: 0

Line /Pallet	Stockist	Stock	Location /Check Digit	Rotation Customer Batch /Pallet	UOS /Vweight	UOM	Pick Quantity / Alloc Quantity	Reason
1	DRM	008	6/02/02	00200801010005	0.00	FTQ	0/ 0	01
3261	001	TEST CODE 3		ROT1	0.000	KGM	3/ 0	
				1549				
2	DRM	008	7/00/00	00200801010002			3/ 0	01
2382	001			MB3456789	4.500	KGM		
				1443				

Check Digits

Catch Weight

Pallet Exchange

Confirm

Serials

Return

FRM-40406: Transaction complete: 1 records applied; all records saved.

Record: 1/1 ... <OSC>

From here, append lines to the order as normal, but do not confirm the page. When saved, the appended pick task will be sent to Calidus 3pl-Mobile for processing. When completed, the task will be returned and updated automatically by Calidus 3pl.

Pick tasks that have been manually short-picked or confirmed will also be interfaced to Calidus 3pl-Mobile, to reduce or remove the pick tasks outstanding.

3.8 Stock Check

Generate the stock check cycle as normal in the generation screen. For messages to be sent to Calidus 3pl-Mobile, the interface flag (either from owner or system parameters) must be set, and the stock check availability flag and owner check flags must also be set in the RDT start/stop screen.



Once stock details have been checked on the RDTs, the information is sent back to Calidus 3*pl* and updated into the stock take count input screen.

[illegible]

Once the data is checked for consistency, the cycle can be confirmed (using the 'Confirm' button), making it ready for updating, using the Stock Take Update screen.

Stock Take Update

Owner: DRM Warehouse: NFI 14-MAY-2009 VMS0545 v4.4

Stock Take No: 24

Conf/Rel/Part: Confirm

Run Date: 14-MAY-2009 Time: 15:31 Run Stock Take

Good counts should be confirmed. If unsure about the counts, the cycle can be rejected or partially confirmed. In a partial confirmation, any records that were correct are confirmed, and any with modifications are left on the stock cycle.



## 4 Receiving Procedures

### 4.1 Receipt Transaction Exceptions

The screenshot shows the 'RDT Messages' window. At the top, it displays 'Owner: DRM Warehouse: NFI' and the date '14-MAY-2009'. Below this, there are input fields for 'Mess Type' (set to '121 PICK REQ'), 'Error Type' (set to 'Information ...'), and 'From Date'. A table lists messages with columns 'Date', 'Text', and 'Type'. The messages are as follows:

Date	Text	Type
14-MAY-2009	Manual pick conf order - DRW0000000000000000755	I
14-MAY-2009	Calling send_to_wcs for order- DRW0000000000000000755	I
14-MAY-2009	Manual pick conf order - DRW0000000000000000755	I
14-MAY-2009	Manual pick conf order - DRW0000000000000000755	I

At the bottom left, there is a 'Clear down' button.

Message types allow you to choose which processes' messages you want to see on the report. A full list will be shown.

The error type allows you to choose from a range of message levels:

- Informational (type 'I') - Some processes write away messages to the report, showing successful completion of update. These are informational messages.
- Warning (type 'W') - Warnings show data that may need to be fixed, but the line has been updated anyway.
- Error (type 'E') - Errors show records that cannot be updated. The reason will be shown in the description. Data with errors must be entered and updated manually through the normal manual update screens.
- Debug messages (for support)
- All (type 'A') - All of the above.

You are prompted to choose a Date From. This will default to today's date.

The screenshot shows the 'RDT Messages' window with the 'Clear down' dialog box open. The dialog has fields for 'Up to date' and 'Mess Type', and 'Go' and 'Cancel' buttons. The 'Clear down' button is visible at the bottom left of the main window.

The 'Clear down' button shows the parameters required so that the exceptions log can be cleared. This should be done on a regular basis. By default, no clear-down is done. If you choose to do the clear-down, you are prompted to enter a date. All data before this date will be deleted. Take care using this function as, once deleted, the exceptions data cannot be recovered.

### 4.2 Diagnostics processes

In addition to the above report, several diagnostics reports exist that will aid in identifying possible problems:



- For GRNs:
  - GRN's not putaway confirmed
  - GR Discrepancies Report
  - GRN's advised not confirmed
- For Orders:
  - Order (status) report
  - Unconfirmed Orders
  - Unconfirmed Pick Pages Report
- For Moves:
  - Unconfirmed Movements
  - Outstanding Movements Report

Additionally, the Data Extraction Suite allows the user to design reports to examine all of this data.

Various enquiries exist in the system, which will also aid identification:

- All stock movements enquiries
- Customer Pallet ID Enquiry
- Pallet Enquiry
- Order Enquiry

