**Shipping Documents Automation**

## Introduction

This document details high-level technical design on the automation of Shipping documents.

## Background

Shipper prints and mail shipping documents using shipping activity view in Tecsys. Due to archiving of outbound order after ship completions if shipper fails/forget to print the shipping document, the Shipping documents cannot be printed/re-printed after ship completion.

The automation of shipping documents will ensure that shipping documents are printed and consolidated archive copy is created when outbound order last container moves to shipping dock.

## Scope

Following shipping documents are scoped for automation

1. Master Packing List
2. Floor Credit
3. Container Packing List

## Technical details

Shipper performs outbound order ship completion in Tecsys, LDB database trigger on Queue Command History (cp\_h) table triggers task to created shipping documents.

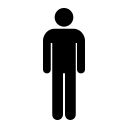
Tecsys task queue create shipping documents using LDB database views and Jasper Reports. The consolidated shipping document pdf archive stored in md\_attachment which can also be used for viewing and re-printing.

The Tecsys re-print Master Packing List view can be used for re-printing consolidated shipping documents.

PDF

TECSYS WMS DB

Move Order last Container to Shipping Dock



Carrier Stations Mapping

Shipper

Jasper Reports

Generates Shipping documents PDF

LDB database trigger create Tecsys document task queue

mq\_warehouse\_task

XML

md\_attachment

LDB Shipping document view

PDF



Shipping documents in scope are consolidated and enhanced for re-printing after Ship completion.

Views missing archive details.

1. Container
2. Inventory

Following objects created or modified to capture missing archive details

**Container**

Create Container history table cn\_h\_ldb

Create database trigger tr\_ins\_cn\_h\_ldb to copy container details from cn\_f to cn\_h on delete

Create database view v\_u\_cn\_f\_ldb to get container - current and history details.

**Inventory**

Create database view v\_u\_iv\_f\_ldb to get inventory - current and history details.

**Shipping Documents database views**

LDB shipping document views are used by Jasper Reports to create custom shipping documents

* Master Packing List
  + mpack\_ldb – master packing header
  + mpack\_order\_ldb -- Master packing order (outbound)
  + mpack\_order\_line\_ldb -- master packing order customer lines
  + mpack\_order\_line\_2\_ldb – master packing order container lines
* Floor Credit
  + fcredit\_ldb – floor credit header
  + fcredit\_order\_ldb -- floor credit order (outbound)
  + fcredit\_order\_line\_ldb – floor credit un-shipped order line items
* Container Packing List
  + cpack\_order\_line\_ldb – Shipped items by containers

**Shipping Documentation database procedures**

LDB shipping documents are automated using below SQL Server procedures

ins\_mq\_warehouse\_task\_ldb – LDB procedure to create new task

get\_gn\_f\_doc\_num\_ldb – LDB procedure to generate new document number

create\_cpack\_ldb – LDB procedure to create container packing list

create\_mpack\_ldb – LDB procedure to create master packing list

tr\_ins\_cp\_h\_ldb – LDB trigger on last container completion command

**Additional Configuration**

update wms\_system\_properties\_ldb

set custom\_char\_01 ='tswmsea.int3.bcldb.com\_int3\_94x'

where whse\_code = 'VDC' and property\_name = 'INSTANCE\_NAME';

Replace high-lighted instance name above based on the environment value below

**DEV - tswmsea.dev.bcldb.com\_dev\_94x**

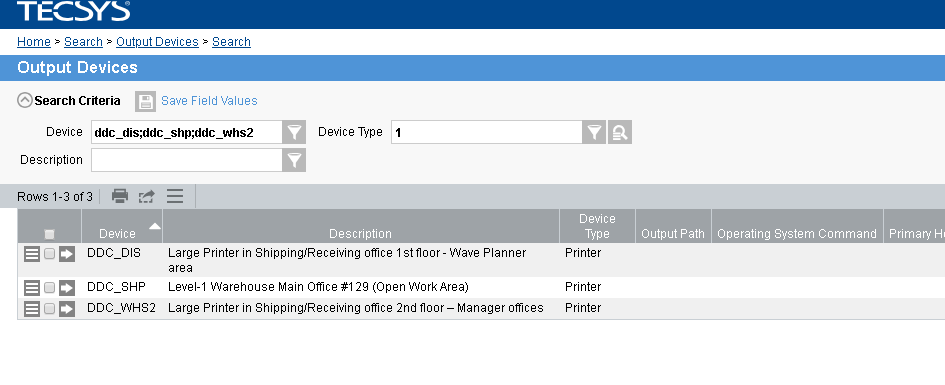
**INT3 - tswmsea.int3.bcldb.com\_int3\_94x**

**INT1 - tswmsea.int1.bcldb.com\_int1\_94x**

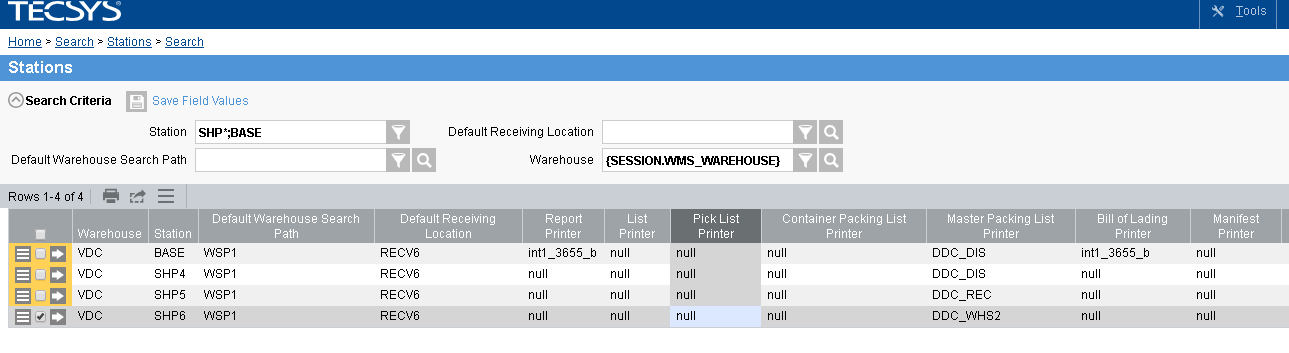
**INT5 - kdci5wmsea1.bcliquor.com\_wms**

**PROD - ddcpwmsea1.bcliquor.com\_wms**

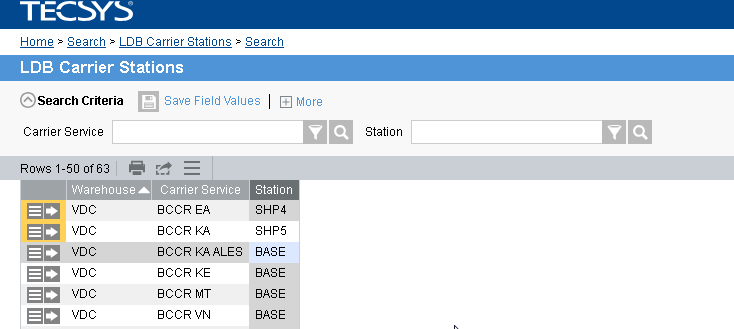
Setup Printers - Output Devices



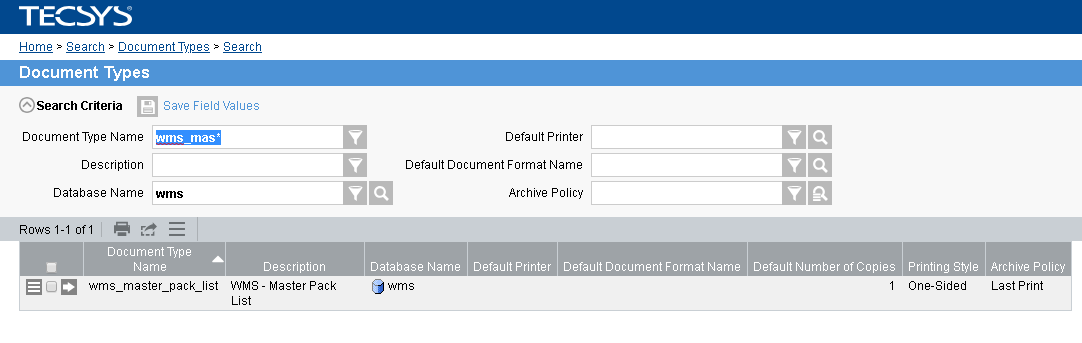
Setup Printing Stations



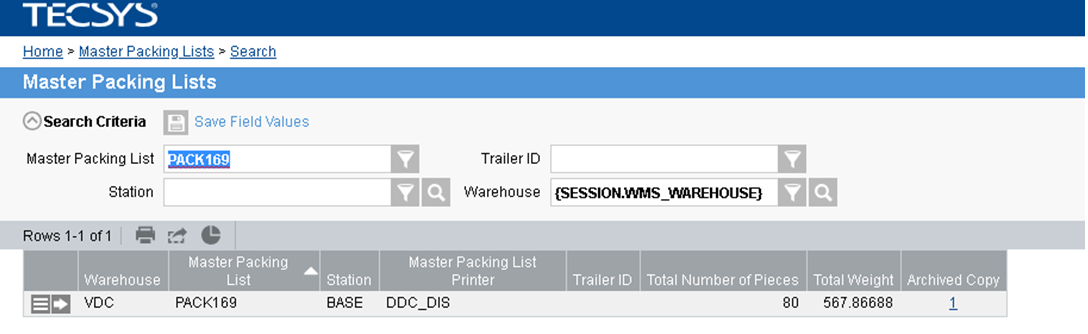
Carrier Stations Mapping

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Document Type



Re-Printing of Master Packing List

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