



## MANUFACTURING CASE STUDY: Food & Beverage

### Project Background

This company manufactures food products on behalf of a leading South African retailer. The products range from packaged snacks such as muffins and sandwiches through to pre-prepared meals for home consumption. Products of this type have a particularly short shelf life which can be measured in terms of a few days rather than weeks or months.

The company deals with high volumes of these products and their customer is a premium retailer with very strict delivery and product quality requirements. They deliver around 18 000 lugs per day and were experiencing problems with meeting the deliveries and the associated paperwork required. There was a high percentage of erroneous deliveries in which goods were delivered but arrived on the wrong truck and at the wrong time. This resulted in a significant administrative burden: a large number of credit notes had to be generated and deliveries then re-invoiced.

### TransLution™ Functionality

The initial phases of the project were focussed on solving the specific problems experienced by the client – specifically in the loading and dispatch processes.

While some of the requirements of this implementation were dealt with using standard TransLution™ functionality, certain specific requirements necessitated the development of a new TransLution™ module, which is now available for general use. The module related to the creation of specific bulk product labels - depending on the access rights of the user that is logged on. The labels can be printed for: Lug Box labels per region, ship date and sales order; Sell-By labels per region, ship date and sales order; and trip sheets which are printed by region and ship date only.

The Lug Box label printing in particular was of extreme

importance. The user selects the required date and region and the printing application then displays all orders that fit the criteria by reading them from their ERP software. When the user selects which orders to print, the custom application reads various database tables which specify the number of lugs per product. The application calculates the number of labels to print including additional labels to mark first and last lugs.

Standard TransLution™ scanning functionality, using suggestion prompts to provide the operator with additional information, is used to scan each lug onto a dolly. The scanner user can see how many lug boxes and dollies he has scanned and start a new dolly when the previous one is full. The scanner is also used to close a trip sheet so that nothing more can be scanned onto it.

### System Overview

The TransLution™ configuration is fairly standard with the same server sharing both the TransLution™ and the ERP databases. There is one computer which is used to print labels and also to view and print reports. There are also four wireless scanners used and 4 label printers.

### Benefits

The custom label printing application delivered the key benefit of improving both the speed of loading the client's trucks and also significantly improving the accuracy of recording what was on each truck.

The system is now also able to generate an accurate report of which lugs are on each truck based on the scanned information. This report is of course not only accurate but available immediately, for use by the drivers as part of their delivery documentation.

## Barcode Labels And Structures

In terms of labelling, this implementation is slightly unusual. Instead of a standard product label, the lug label is what is scanned whenever a lug box moves.

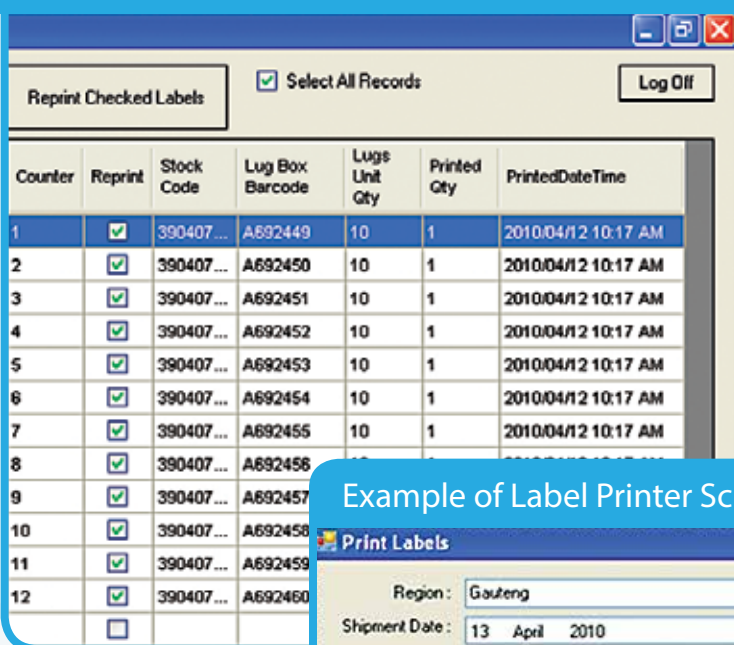
This label, as shown below, does refer to product but also shows the region, the order number and the lug number.

## Success Factors And Challenges

The ability of Afrisoft to tailor a solution to meet the client's specific needs was crucial to the success of the project.

Due to the volumes and operational requirements of trucks departing within specific time slots all day every day, implementing the project proved to be extremely challenging. The solution was to run the new system in parallel to the old and train users as they were starting or ending their shifts.

### Example of Label Re-print Screen



Reprint Checked Labels  Select All Records Log Off

Counter	Reprint	Stock Code	Lug Box Barcode	Lugs Unit Qty	Printed Qty	PrintedDateTime
1	<input checked="" type="checkbox"/>	390407 ...	A692449	10	1	2010/04/12 10:17 AM
2	<input checked="" type="checkbox"/>	390407 ...	A692450	10	1	2010/04/12 10:17 AM
3	<input checked="" type="checkbox"/>	390407 ...	A692451	10	1	2010/04/12 10:17 AM
4	<input checked="" type="checkbox"/>	390407 ...	A692452	10	1	2010/04/12 10:17 AM
5	<input checked="" type="checkbox"/>	390407 ...	A692453	10	1	2010/04/12 10:17 AM
6	<input checked="" type="checkbox"/>	390407 ...	A692454	10	1	2010/04/12 10:17 AM
7	<input checked="" type="checkbox"/>	390407 ...	A692455	10	1	2010/04/12 10:17 AM
8	<input checked="" type="checkbox"/>	390407 ...	A692456	10	1	2010/04/12 10:17 AM
9	<input checked="" type="checkbox"/>	390407 ...	A692457	10	1	2010/04/12 10:17 AM
10	<input checked="" type="checkbox"/>	390407 ...	A692458	10	1	2010/04/12 10:17 AM
11	<input checked="" type="checkbox"/>	390407 ...	A692459	10	1	2010/04/12 10:17 AM
12	<input checked="" type="checkbox"/>	390407 ...	A692460	10	1	2010/04/12 10:17 AM

### Product Label

Western Cape Prod Code : 891305

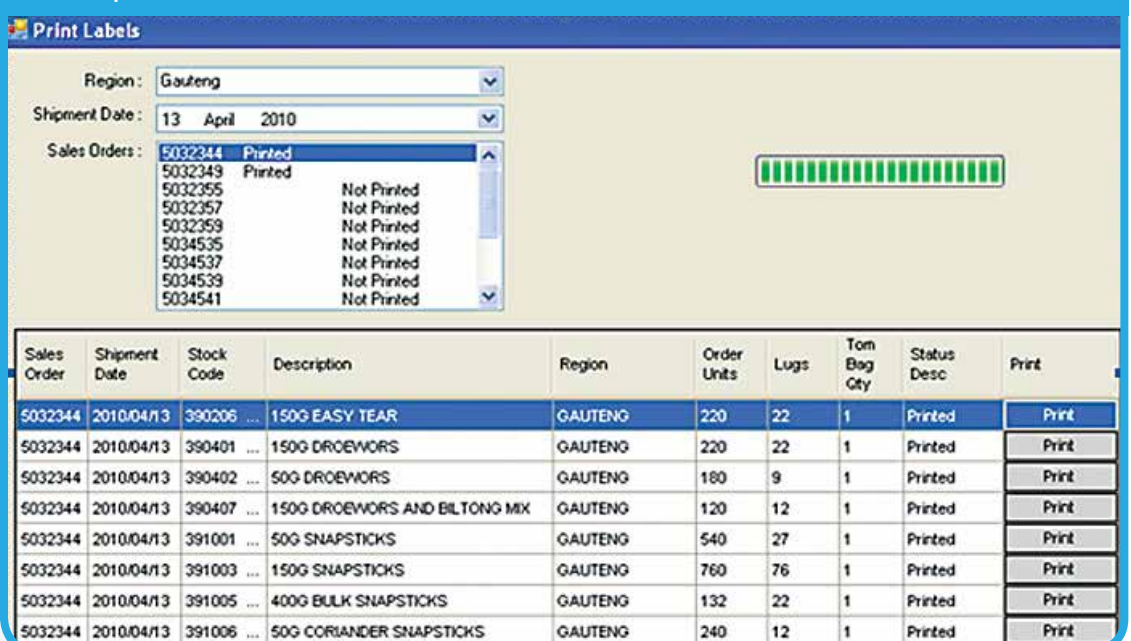
**CHEESE SCONES 4 PACK**

Lugs : 0 / 0  
Order Nr : 891305



A0000023

### Example of Label Printer Screen



Print Labels

Region: Gauteng  
Shipment Date: 13 April 2010

Sales Orders:

Sales Order	Shipment Date	Stock Code	Description	Region	Order Units	Lugs	Tom Bag Qty	Status Desc	Print
5032344	2010/04/13	390206 ...	150G EASY TEAR	GAUTENG	220	22	1	Printed	Print
5032344	2010/04/13	390401 ...	150G DROEWORS	GAUTENG	220	22	1	Printed	Print
5032344	2010/04/13	390402 ...	50G DROEWORS	GAUTENG	180	9	1	Printed	Print
5032344	2010/04/13	390407 ...	150G DROEWORS AND BILTONG MIX	GAUTENG	120	12	1	Printed	Print
5032344	2010/04/13	391001 ...	50G SNAPSTICKS	GAUTENG	540	27	1	Printed	Print
5032344	2010/04/13	391003 ...	150G SNAPSTICKS	GAUTENG	760	76	1	Printed	Print
5032344	2010/04/13	391005 ...	400G BULK SNAPSTICKS	GAUTENG	132	22	1	Printed	Print
5032344	2010/04/13	391006 ...	50G CORIANDER SNAPSTICKS	GAUTENG	240	12	1	Printed	Print