



System 3000 Landfill

Product Outline
SYS-3

Please Note

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Overview

Over the past 20 years Way Forward Technologies Limited has been developing Microsoft Windows based Weigh Bridge Control systems using advanced development tools and the ACCESS database. Way Forward was the first company in New Zealand to use this concept, with Touch-Screen technology, to assist unattended Weighbridge users. Indications are we were the first in the world with this system and have one of the most advanced Weighbridge Control Systems available.

Way Forward Technologies Ltd has enjoyed considerable success with both the Touch Weigh and Landfill systems. A considerable amount of experience has been accumulated in these fields, all of which has been used to benefit our many customers many of whom provided valuable advice during development stages.

Design

SYSTEM 3000 is written in Microsoft Visual BASIC 6.0 and Microsoft ACCESS.

The system is written in two distinct modules, Host and Remote. The Host module provides such things as Data Maintenance and basic reporting facilities. The Remote module provides the weighbridge operator interface, end of day totalling and docket and receipt production. A customer may require only one copy of the Host module but will require a copy of the remote module for each landfill site or transfer station.

The system has an option for automatic transfer of static data (customer, product file etc) from the Host to the Remote(s). The Transfer of dynamic data (transactions) is from the Remote(s) to the Host.

Minimum System Requirements for Software

Pentium Dual Core Processor
4GB RAM
200GB Hard Disk
1 Spare Serial Port
Windows XP or later
A Clean Power Supply

Recommended

ADSL Modem
Teamviewer Access or similar
Uninterrupted Power Supply
Quality phone line



Way Forward Technologies Limited

will supply

Microsoft Access / MSDE Run-time Licence
Microsoft Visual Basic Run-time Environment
- Full version of Microsoft Access is recommended
WFT Access Database Management System
Visual Basic Operator environment

In addition specific hardware may be required depending on your site configuration.

System Functions

Weighbridge Control

System 3000 will support;



- ⌚ An entry and exit weighbridge
- ⌚ A single weighbridge
- ⌚ No weighbridge.

Users can change between these options.

Masterton District Council

Landfill 3000



Operator Id	<input type="text"/>	
Password	<input type="text"/>	

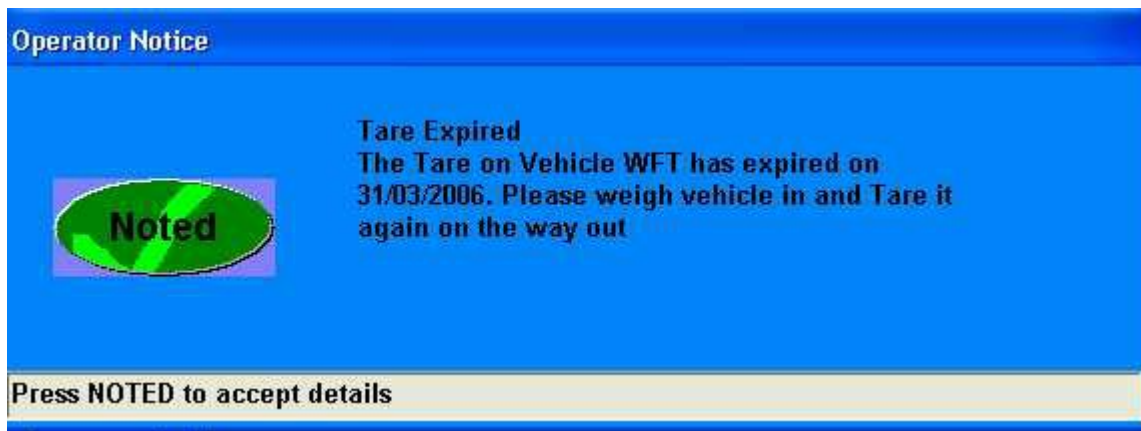
[Move the mouse over the form objects to see further information](#)

Operator Login

To use the system an operator logs in using a predetermined ID and password. This enables all weighing functions and reports, and provides a header for the cash out report.

Stored Tares

The use of "stored tares" permit drivers to weigh once, when laden, and removes the need to weigh out. Stored tares are recorded for a limited time, usually 30 days, after which the tare expires and dual weighing is required. The system notes both expired and insufficient tares.



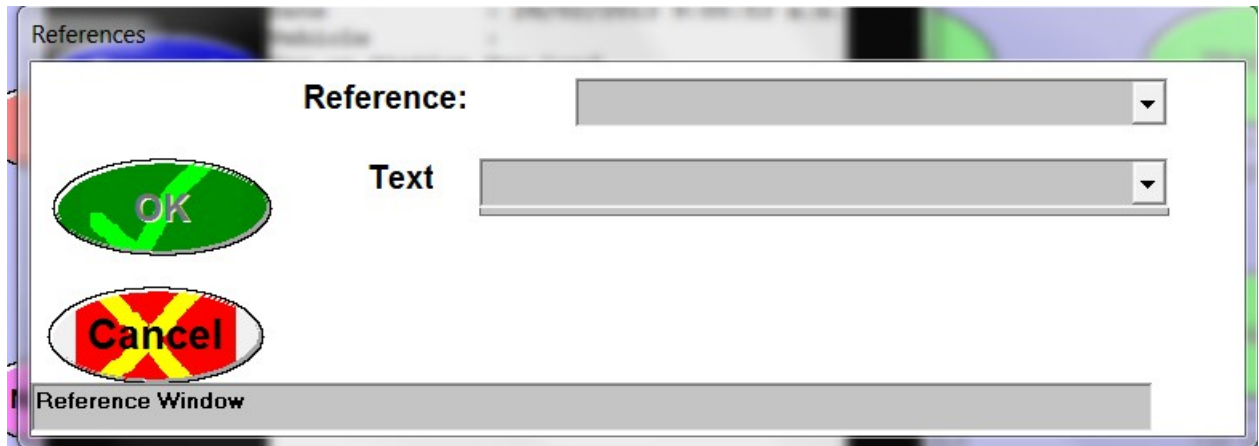
Products

Product name and details are recorded along with the Charge per Tonne, Product minimum charge, Product maximum charge, along with the option of, Charge by load. In addition information such as cubic metres and dry weigh measurement conversion is available as an option. Products can be for Domestic use, Commercial use or both.

Product:	<input type="text" value="Special/Hazardous"/>	<input type="text" value="\$30.00/T"/>
		<input type="text" value="Per Weight"/>

Free fields

The option of References or user defined fields is provided. This enables additional analysis areas defined by the customer.



The image shows a software dialog box titled "Reference Window". At the top left, the word "References" is visible. The main area contains two labels: "Reference:" and "Text". Each label is followed by a grey rectangular field with a small downward-pointing arrow on its right side, indicating a dropdown menu. To the left of these fields are two oval buttons. The top button is green with a white checkmark and the text "OK". The bottom button is red with a yellow 'X' and the text "Cancel". At the bottom of the dialog box, there is a grey bar with the text "Reference Window" on the left side.

References are selected from a user defined list and the operator can enter the required text in the field provided. There is no logical limit to the number of references stored with each transaction. All references are printed on the docket.

In addition references can be marked as required forcing the weighbridge operator to use them on each transaction.

Commercial Weighing

Domestic
Pending
Auto Id

Vehicle: **TEST**
Manual Vehicle

Customer: **Chainsaws & Mowers 2006 Ltd**
*Chainsaws ,Mowers 2006 Ltd
T/A Hireshop; Stihl Shop
PO Box 769
Paid by: Account*

Account Commercial

Product: **Compost Truck** *Normal Price* **\$50.00/T**
Per Weight

Payment

In: 25/02/2013 07:17:24 p.m. 10,000 Kg
Out: 0 Kg
10,000 Kg

Read Scales

Charges: \$500.00 \$75.00 \$575.00

the Commercial Weighing form shows the current weighing in progress

No Pending Record or Stored Tare

Cancel **Reprint** **Pending** **Daily Grid** **Log Off**

Pending
WFT
Cash Commercial

The operator is prompted to enter details of the vehicle and product before accepting the transaction. The option of Manual Id allows the operator to type in vehicle fleet numbers or registrations without selecting from the stored list. A vehicle can also be assigned to a different customer.

Pending Vehicles

A complete list of Pending vehicles is available displaying all Vehicles weighed in but not yet weighed out. Is displayed on the right of the Commercial panel.

Commercial Dockets

Each commercial driver will receive a complete docket. Indicating the Date, Time, Product and weights. For commercial cash customers dockets can indicate the GST number and the words "Tax Invoice" or "Weighbridge Docket"

Domestic Receipts

For Landfills and Transfer Stations. All domestic customers will receive a receipt showing the Date, Time and vehicle type, GST Number, docket number and the charge.

Payment

Reference

OK

Cancel


Docket Sample

GST Number :
Date : 6/04/2006 9:35:24 a.m.
Vehicle : \$10 Assessed Green
Total Charge : \$10.00
Includes GST of: \$1.11
Paid By : Cash

Domestic Cash Up

Payment options and groups are fully configurable by the user. Monies can be grouped by 'Cash' (including Cheque and EFT-POS payments) as well as other options.

Docket Sample



Cash Up Report for 6/04/2006 11:13:33 a.m.
Operator: WFT
Last Sale Docket: 604111

Total Domestic:	2
Total Commercial:	0
Total Receipt:	0
Total Tare:	0
Total Public:	0
Total Cancelled:	2
Total Pending:	0
Total Account:	0
Total Account\$:	\$0.00
Total Cash:	0
Total Cash\$:	\$0.00
Total Cheque:	0
Total Cheque\$:	\$0.00
Total EFT-POS:	0
Total EFT-POS\$:	\$0.00
Total Mastercard:	0
Total Mastercard\$:	\$0.00
Total Visa:	0
Total Visa\$:	\$0.00
Total Account:	0
Total Account\$:	\$0.00
Total Banking:	0
Total Banking\$:	\$0.00

Selection

OK

Up

Down

Additional features include Operator Date Selection. The Operator can now Cash Up over a several day period or within a specific time

Domestic Categories

Category	Description
CAR COMP	Car or Station Wagon (up to 100kg) Composting
VAN COMP	Van; Utility; small trailer (up to 250kg) Compost
TRAIL COMP	Trailer (up to 500kg) Composting
OFF BAG	Bag - Official Council bag
CAR TRAN	Car or Station Wagon (up to 100kg) Tsfr Stn Only
VAN TRAN	Van; Ute; small trail (up to 250kg) Tsfr Stn Only
TRAIL TRAN	Trailer (up to 500kg) Tsfr Stn Only
REC + BAG	Recycling and Official Council Bag
PAID BAG	Bag - any other bag (up to 30kg)
CAR RIMS	Car .4WD Tyres on rims
CAR TYRES	Car .4WD Tyres
RECYCLER	Recycling Only

Domestic Vehicle selection

Normal Use

Log Off

Up to 36 Domestic vehicle categories are available, using three screens of 12 each. Icons are available as an option extra.

Quick Payment

The option to simply click on the payment type to complete the transaction.

Quick Payment

Cash

Cheque

EFT-POS

Credit Checking

Each customer has a Credit OK flag. Set to NO this will flag the operator with a customer note indicating why the credit is refused and providing a name and number to call.

Operator Notice

Credit Refused
zzz Vehicles
Kevin_Kathy
5551234

Details on the Credit Refused

Operator Notes

Each customer has a Note field that is displayed whenever the customer is selected. This allows the Office to pass customer specific messages to the weighbridge operator.

Operator Notice

Message Recorded
zzz Vehicles
Check load visually.
Kevin_Kathy
5551234

Details on the Message Recorded

System Options

Barrier Arm Counting and Control

This will allow a transaction check between the Barrier arm and the number of transactions in the database. By only using software control to activate the barrier arm a count is kept. This allows a check on the number of transactions and arm movements.

Domestic Customer Fee Display

As the vehicle type is entered the customer display will show the charge. This is a verification for the customer that the charge is correct.

Pre Paid Tags

This is an option that allows customers to pay in advance for loads. The use of Dallas read-write tags allows for an amount to be paid at the payment office and then deducted at any remote site after a weighing is complete. The tags are internally secured to prevent unauthorised alteration. Each tag can store it's Id, Activation or start date and, if desired the customer details via the account system

Unattended Site

An after hours module is available to support Landfills and Transfer Stations having commercial customers who require to weigh out of normal business hours. Each customer is issued with a Dallas Touch-Key allowing access to the site. The database will allocate each tag to a customer. The driver is required to weigh in and the product he is carrying is a default after hours Product. If stored tares are in use he will not be required to weigh out. After unloading the driver could then leave or, if required, weigh out. Traffic control is via traffic lights on the inward and exit lanes.

System Auditing

System 3000 has two distinct logging methods.

RMCALOG

Remote Monitoring and Control monitors Software and communications errors. By examining this log Way Forward Technologies support staff can quickly pin-point Software and some Hardware communication problems. Allowing rectification often before an Operator is aware of the problem.

TRANSLOG

Transaction Logging Transaction logging. All transactions are duplicated in a text file stored on the hard disk. From this text file our support staff can re-create transaction financial data (References are not included). This can be a valuable tool particularly after such incidents as data corruption following power spikes etc..

Data Maintenance

All data edits are logged into an Audit Log so staff who edit Customer and Transaction data can review their changes.

Host Module

Data Maintenance

Contains: Customer table
 Vehicle table
 Product table
 Operator Logins
 System details



Reports: Customer by Product
 Product by Customer
 Domestic Transactions
 Sorted Products
 Customer Vehicles

Data Editing

The screenshot shows a software window titled "All Customers". At the top, there are input fields for "Id:" (101611) and "Name:" (ZZZ Vehicles), both with a magnifying glass icon. To the right is a "Status:" dropdown menu set to "Inactive". Below these is a "Customer Type:" dropdown menu set to "Account Commercial", also with a magnifying glass icon. A tabbed interface follows, with "Vehicles" selected. The "Vehicles" tab contains a table with three columns. The first column lists vehicle identifiers (BL, BM1, BM5), and the second column lists their status (Active, Active, Active). To the right of the table are two buttons: "View all Vehicles" and "Print cards for all active vehicles". At the bottom of the window, there are two buttons: "Transaction Enquiry" and "Transaction Report". The very bottom status bar shows "Record: 10 of 346", a filter icon, "Unfiltered", and a "Search" input field.

Vehicle	Status
BL	Active
BM1	Active
BM5	Active

Look up and search facilities are available for Customers, Products and Vehicles. Operators can view vehicles and transactions directly from the Customer Edit tab.

Remote Module(s)

Weighbridge Control

Contain Commercial Vehicle Weighing
 Updating of Stored Tares
 Domestic vehicle recording
 Transaction Storage
 Receipt printing
 Specific period Cash up

Domestic Only version available – Records Domestic Vehicles and will not do Commercial Weighing.

System 3000 Transaction Reporting

Data Selections | General Options | Report Heading

Customers:

Products:

Vehicles:

Sites:

Dates:

Transaction Types:

Transaction Status:

Reports

- ☒ Full Details by Customer
- ☐ Summary by Customer
- ☐ Summary by Customer and Product
- ☐ Summary by Product
- ☐ Summary by Product Group
- ☐ Summary by User Product Group
- ☐ Customer Invoices
- ☐ Summary by Vehicle
- ☐ Summary by Vehicle Type
- ☐ Summary by Payment Method
- ☐ Export all data

User Report Definitions

Sample Customer by Product report showing domestic transactions

(NB Names deleted)

Customer - Product Weight Report - for period 1/01/90 to 12/02/99

12-Feb-99

Docket	Date Time In	Date Time Out	Vehicle Id	Weight In	Weight Out	Net Weight
GENERAL CAR						
10016	9/02/99 12:59:25	9/02/99 12:59:25		0 Kg	0 Kg	0 Kg
10048	9/02/99 13:27:10	9/02/99 13:27:10		0 Kg	0 Kg	0 Kg
10065	11/02/99 17:30:51	11/02/99 17:30:51		0 Kg	0 Kg	0 Kg
10083	11/02/99 22:17:40	11/02/99 22:17:40		0 Kg	0 Kg	0 Kg
10089	11/02/99 22:24:50	11/02/99 22:24:50		0 Kg	0 Kg	0 Kg
10100	12/02/99 11:33:06	12/02/99 11:33:06		0 Kg	0 Kg	0 Kg
10104	12/02/99 11:45:12	12/02/99 11:45:12		0 Kg	0 Kg	0 Kg
10110	12/02/99 12:24:05	12/02/99 12:24:05		0 Kg	0 Kg	0 Kg
10112	12/02/99 12:30:50	12/02/99 12:30:50		0 Kg	0 Kg	0 Kg
10114	12/02/99 12:31:49	12/02/99 12:31:49		0 Kg	0 Kg	0 Kg
10116	12/02/99 12:32:37	12/02/99 12:32:37		0 Kg	0 Kg	0 Kg
10118	12/02/99 13:01:40	12/02/99 13:01:40		0 Kg	0 Kg	0 Kg
10120	12/02/99 13:02:30	12/02/99 13:02:30		0 Kg	0 Kg	0 Kg
10124	12/02/99 13:03:12	12/02/99 13:03:12		0 Kg	0 Kg	0 Kg
10129	12/02/99 13:04:22	12/02/99 13:04:22		0 Kg	0 Kg	0 Kg
10131	12/02/99 13:05:11	12/02/99 13:05:11		0 Kg	0 Kg	0 Kg
10135	12/02/99 13:06:05	12/02/99 13:06:05		0 Kg	0 Kg	0 Kg
10137	12/02/99 13:06:05	12/02/99 13:06:05		0 Kg	0 Kg	0 Kg
10141	12/02/99 13:06:24	12/02/99 13:06:24		0 Kg	0 Kg	0 Kg
10145	12/02/99 13:06:33	12/02/99 13:06:33		0 Kg	0 Kg	0 Kg
10149	12/02/99 13:07:20	12/02/99 13:07:20		0 Kg	0 Kg	0 Kg

Host Module Transaction Enquiry

(NB Customer name partially deleted)

Transactions of WAM Commercial

Site Id: In: Wednesday, 12 March 2008 10:21:10 am
Commercial Docket: 20006 Out: Wednesday, 12 March 2008 10:24:59 am
Weigh Type: Commercial

Customer Id: 46099966 Operation Mode: Attended
Vehicle Id: 107 Operator: COLIN

Transaction Lines References

Line	Product	1st Weight	2nd Weight	Net	Unit Price	Amount
1	General Waste	9,310	7,760	1,550	Per Weight	

Payment Method: Account GST:
Reference: Total:

Customer Detail **Edit** **Create Reversal**

Record: 1 of 36149 Filtered Search

System parameters are easily changed and allow Maintenance options to be grouped logically.

Reference Tables

Product Groups Vehicle Types Payment Methods Transaction References

Product Group	Group Description	Product Type
<input checked="" type="checkbox"/> Hazardous	Hazardous Waste	Weighed
<input type="checkbox"/> Incoming	Incoming Products	Weighed
<input type="checkbox"/> Outgoing	Outgoing Products	Weighed
<input type="checkbox"/> Special W	Specail Waste	Weighed
<input type="checkbox"/> *		Weighed

Record: 1 of 4 Unfiltered Search

Transaction Processing Flowchart

