



PROWASTE⁺

WASTE WEIGHING SOFTWARE (V1.1)
WASTE SOFTWARE MANAGEMENT SYSTEM

Recovering Rands from Rubbish

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PROWASTE+ is Sasco's universal waste software solution, enabling Waste Sites to be operated optimally. This software has been developed on the principle of standardization with maximum in-built functionality.

Over the next 30 years, 1.8 billion people will be born in Africa, resulting in an astonishing level of population growth. Even more profound will be the growth in urbanization, with the number of people living in cities rising from 480m to over a billion. Central and Southern Africa will see four mega cities with populations between 10-20m.

Smaller African towns and cities will also see their current population grow, and this will be around three-fold.

Municipalities' are facing a daunting infra structural challenge spanning not just the provision of roads, power and water, but also waste management. Future infrastructural investments made by municipalities must deliver the financial paybacks required to deliver sustainability.

PROWASTE+ makes this possible in Waste Site investments by delivering a complete operational waste weighing management, financial control and data management system.



Optimizing Operations

The efficient management of a Waste Site depends on ensuring that:

- All waste being brought into a site passes over the weighbridge and is weighed.
- The weight of waste is determined with a high degree of accuracy.
- The correct price is charged for the waste being brought into the site.
- Accurate accounting records are seamlessly generated of both revenue and amounts owing by customers.
- Camera footage is generated for all weighing's so that any future disputed amounts can be validated with imagery.
- Management has access to real time activity reports and camera footage of the site.

Product Overview

Sasco has developed a waste software platform that can from the outset, be easy to use while at the same time providing an array of functionality options that can be activated without significantly changing the operator's mode of operations.

ProWaste+ therefore has several levels of User License options:

- **Standard License:** This license provides for a wide range of operating functions including compatibility with multiple scale device types, a pre-loaded fleet database and the option of tare weighing with a single weighbridge or dual weighbridge operations.
- **Add-on IT Interfacing Functionality:** This add-on license provides for either, the direct interfacing or interfacing via the web, of all the weighing data contained on the hard copy weighing tickets generated by ProWaste+, to be directly interfaced with User's IT systems.
- **Add-on Automation Functionality:** This add-on license provides for a range of weighbridge automation hardware to be installed at the weighing device, and for ProWaste+ to interface with and operate these devices through the weighing process.
- **Add-on Accounting Functionality:** This add-on license provides for a range of basic accounting functions to be performed.

User License Options

The User license functionality options within the various User license levels comprise the following:

STANDARD LICENSE LEVEL	
Scale Device Types	<ul style="list-style-type: none"> • Multiple weighbridge types • Multiple indicator types
Weighing Applications	<ul style="list-style-type: none"> • Double weighing • Single tare weighing
Number of Weighing Devices	<ul style="list-style-type: none"> • Single weighbridge • Two weighbridges
Customer Fleet Vehicle Data Base	<ul style="list-style-type: none"> • Fleet database capable of storing 100s of vehicles
Basis of Vehicle Configuration Identification	<ul style="list-style-type: none"> • Visual manual data capture • Other license options allow for automated vehicle identification
Language	<ul style="list-style-type: none"> • English

ADD-ON IT SYSTEMS INTERFACING LICENCE OPTION	
Interfacing of Weighing Data to Customer IT Systems	<ul style="list-style-type: none"> • Business Connector • Web Connector

ADD-ON AUTOMATION LICENCE OPTION	
Automation Hardware Devices	<ul style="list-style-type: none"> • Robots • Booms • Cameras • Electronic Display Board • Bar Code Readers • QR Code Readers • RFID Readers • Internet Communication Card

ADD-ON ACCOUNTING LICENCE OPTION	
Accounting	<ul style="list-style-type: none"> • Invoicing • VAT reports • Turnover reports • Cash up reports • Statements

Configurations Options

Under a Standard License User level ProWaste+ can be set up to operate with either in the typical configuration of an “In and Out Two Weighbridge” set up, or to operate using just a single weighbridge using “tare weighing”.

It is legally permissible to use a “tare weight” for trade weighing under either of the following conditions:

- The tare mass of the vehicle, including that of any trailer, as contained in one the vehicles registration documents is used as the empty mass (“Registration Tare”); or
- The two parties being the waste site and the customer agree to use a tare mass as arrived at on a basis agreed between themselves (“Contract Tare”)

Registration Tare

Using ProWaste+ in the Tare Mode Weighing with Registration Tare, requires that either:

- The customers provide the necessary information to the User so as to enable their vehicle fleets to be pre-loaded on the ProWaste+ fleet manger database; or
- The vehicles have a fixed to them an RFID tag containing the vehicle particulars including the tare.

Contract Tare

ProWaste+ in the Tare Mode Weighing with Contract Tare requires the following:

- A Percentage “tare” be entered in the formula tare set up of the software; and
- A sign be displayed at the weigh site stating that all persons weighing at the site agree to that fact that a formula tare computation is being used to arrive at an assumed empty weight of the vehicle, and this amount will be deducted from the gross weight to arrive at the net mass of the waste. The sign must also state the assumed Tare % of GVM.

The ratio of vehicle GVM's to Tares vary, however the typical percentage Tare to GVM of delivering waste to waste sites will be in the range of 25-35%.



Data Capture Sequencing

The data capture sequencing for ProWaste+, both at the Standard License Level and Add-on licenses essentially follow a common sequence:

First action:

In the Two Weighbridge Configuration, capture the vehicle registration, select product type and perform first weighing.

Alternative first action:

In the Single Weighbridge Configuration, select the correct vehicle from the database, import tare weight, select product type and perform complete weighing.


Vehicle Registration Number	Capacity (KG)	Tare Weight (KG)	Vehicle Type	Tare Last Updated Date
ABC123GP	6500	7450	Horse	1900/01/01 00:00:00


For the Two Weighbridge Configuration, repeat the capture of the vehicle registration on the out bound weighbridge and print ticket.

On Single Weighbridge Configuration operating using the tare weighing functionality. The ticket will be printed on the first weighing, as there will be no second weighing.

Weighing Ticket Format

The standard ProWaste+ weighing ticket is set out below. The amount of data included on the ticket will depend on the configuration of the system.

		WASTE INVOICE	
		Horse Registration	ABC123GP
		Weighbridge Name	Sasco Demo Weighbridge 1
		Company Name	Sasco Customer Demo Company
		Address	1 Test Street

			JHB
			0117654321
INVOICE NUMBER	INV00000024	INVOICE DATE	2018/11/01 22:08:00
CUSTOMER DETAILS			
Horse Registration:	ABC123GP	No. of Waste Types:	3
Customer Name:	12345 - My Customer	Tare Weight:	8 253 kg
WASTE WEIGHING DETAILS			
Waste Type:	<u>BRICK - Bricks</u>		
Ticket Number:	WBT000029	Gross Weight:	19 650 kg
Date Time:	2018/11/01 10:08 pm	Product Weight:	2 000 kg
Operator:	sa	Rate:	R0.25
		Cost:	R500.00
		VAT:	R75.00
		Total:	R575.00
Waste Type:	<u>PLASTIC - Plastics</u>		
Ticket Number:	WBT000030	Gross Weight:	17 650 kg
Date Time:	2018/11/01 10:08 pm	Product Weight:	1 300 kg
Operator:	sa	Rate:	R0.13
		Cost:	R169.00
		VAT:	R25.35
		Total:	R194.35
Waste Type:	<u>Paper - Paper</u>		
Ticket Number:	WBT000031	Gross Weight:	16 350 kg
Date Time:	2018/11/01 10:09 pm	Product Weight:	8 097 kg
Operator:	sa	Rate:	R0.10
		Cost:	R809.70
		VAT:	R121.46
		Total:	R931.16
COMPLETED BY _____ DATE _____ DRIVER _____ DATE _____		VAT	R221.81
		TOTAL	R1 700.51
			
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ERP Interfacing

As organisations move towards the interconnected industry of the future there is a growing need for the ability to integrate various processes of a business with their centralised management systems.

It is with this in mind that we have developed the integration features of ProWaste+.

ProWaste+ offers two distinct integration methods, the first being Business Connector which synchronizes data between your various weighbridges with a central database, from here it can then be integrated into a host of applications including ERP's such as SAP, Sage, and Syspro as well as reporting tools like QlikView and Microsoft PowerBI.

The second method is Web Services which is a standardized messaging protocol which allows you to closely interact with ProWaste to maintain and monitor various aspects of the software. This is well suited for large workflow-controlled environments.

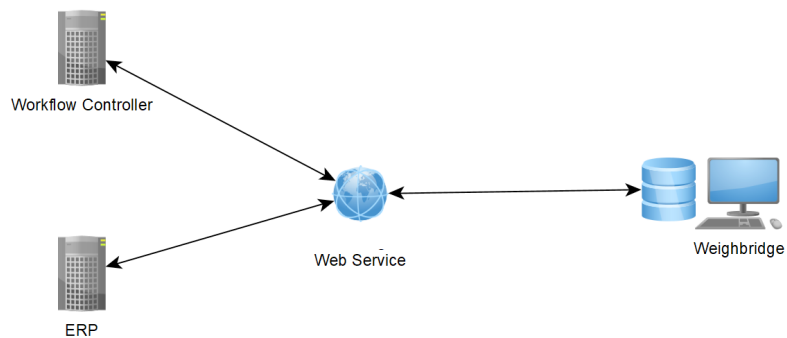


Figure 1:
ProWaste Webservices

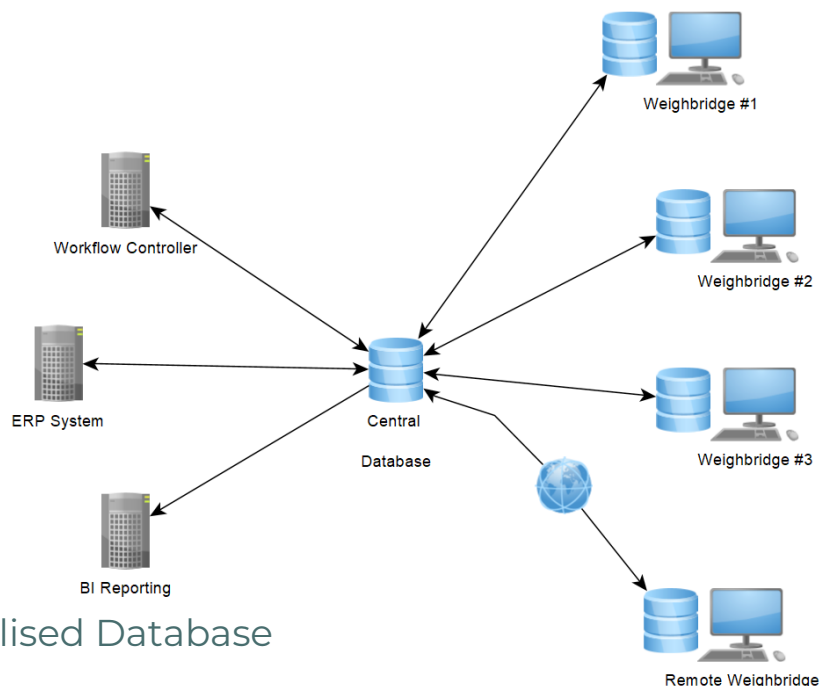


Figure 2:
ProWaste Centralised Database



Systems Requirements

Prowaste+ has the following system operating requirements:

- Intel Core i3 or higher
- Working keyboard, mouse and serial port
- 2 GB system memory, with 4 GB recommended
- 10 GB available hard drive space
- Microsoft Windows 7, with Microsoft Windows 10 recommended
- Microsoft .NET Framework V4.0

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