





PROVASTE WEIGHING SOFTWARE (V1.1)

Waste Software Management System

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SASCO WEIGHING SYSTEMS

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Phone: +27 (0) 11 746 6000 Fax: +27 (0) 11 746 6100 **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	Multiple weighbridge typesMultiple indicator types							
Weighing Applications	Double weighingSingle tare weighing							
Number of Weighing Devices	Single weighbridgeTwo weighbridges							
Customer Fleet Vehicle Data Base	 Fleet database capable of storing 100s of vehicles 							
Basis of Vehicle Configuration Identification	 Visual manual data capture Other license options allow for automated vehicle identification 							
Language	• English							

ADD-ON IT SYSTEMS INTERFACING LICENCE OPTION

Interfacing of Weighing Data to	 Business Connector
Customer IT Systems	Web Connector

ADD-ON AUTOR	MATION LICENCE OPTION
Automation Hardware Devices	 Robots Booms Cameras Electronic Display Board Bar Code Readers QR Code Readers RFID Readers Internet Communication Card

ADD-ON ACCOUN	TING LICENCE OPTION
Accounting	 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:

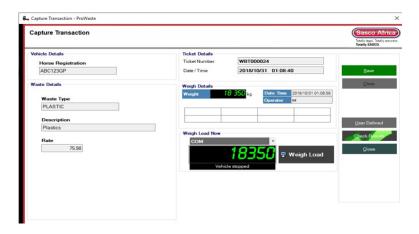
• A Percentage "tare" be entered in the formula tare set up of the software; and

• 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.

Customer Fleet M Maintain Customer R		ance on Numbers and Tare	Weights				
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ustomer Name	My Cu	ustomer			_		
					-	Weigh Vehicle	
egistration Numbers		Vehicle Regaitration 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 WEIGHING DETAILS Waste Type: BRICK - Bricks. Ticket Number: WBT000029 Gross Weight: 19 650 kg Cost: R500 Date Time: 2018/11/01 10:08 pm Product Weight: 2 000 kg VAT: R75 Operator: sa Rate: R0.25 Total: R576 Waste Type: PLASTIC - Plastics. Gross Weight: 17 650 kg Cost: R162 Date Time: 2018/11/01 10:08 pm Product Weight: 1 300 kg VAT: R25 Operator: sa Rate: R0.13 Total: R194 Waste Type: Paper - Paper Gross Weight: 16 350 kg Cost: R802 Waste Type: Paper - Paper Gross Weight: 16 350 kg Cost: R802 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R1221 Operator: sa Rate: R0.10 Total: R931 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R1221 <	Weighbridge Name Company Name Address Sasco Demo Weighbridge 1 Sasco Customer Demo Company 1 Test Street 					-		WA	STE I	NVOICE	
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Ticket Number: WBT000030 Gross Weight: 17 650 kg Cost: R165 Date Time: 2018/11/01 10:08 pm Product Weight: 1 300 kg VAT: R25 Operator: sa Rate: R0.13 Total: R194 Waste Type: Paper - Paper Rate: R0.13 Total: R194 Date Time: 2018/11/01 10:09 pm Product Weight: 16 350 kg Cost: R809 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121 Operator: sa Rate: R0.10 Total: R931 Operator: sa Rate: R0.10 Total: R931 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R120 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R120 Date Time: Sa Product Weight: Rate: R0.10 Total: R931 DATE	Ticket Number: WBT000030 Gross Weight: 17 650 kg Cost: R169.0 Date Time: 2018/11/01 10:08 pm Product Weight: 1 300 kg VAT: R25.3 Operator: sa Rate: R0.13 Total: R194.3 Waste Type: Paper - Paper Gross Weight: 16 350 kg Cost: R809.7 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121.4 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121.4 Operator: sa Rate: R0.10 Total: R931.10 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121.4 Operator: sa Rate: R0.10 Total: R931.10 DATE	Operator:	sa			Rate:		R0.25		Total:	R575.00
Date Time: 2018/11/01 10:08 pm Product Weight: 1 300 kg VAT: R25 Operator: sa Rate: R0.13 Total: R194 Waste Type: Paper - Paper Ticket Number: WBT000031 Gross Weight: 16 350 kg Cost: R809 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121 Operator: sa Rate: R0.10 Total: R194 Operator: sa Rate: R0.10 Total: R194 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121 Operator: sa Rate: R0.10 Total: R931 DATE	Date Time: 2018/11/01 10:08 pm Product Weight: 1 300 kg VAT: R25.3 Operator: sa Rate: R0.13 Total: R194.33 Waste Type: Paper - Paper Ticket Number: WBT000031 Gross Weight: 16 350 kg Cost: R809.7 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121.4 Operator: sa Rate: R0.10 Total: R931.10 Operator: sa Rate: R0.10 Total: R931.10 COMPLETED BY	Waste Type:	PLA	<u>STIC - PI</u>	astics						
Operator: sa Rate: R0.13 Total: R194 Waste Type: Paper - Paper Ticket Number: WBT000031 Gross Weight: 16 350 kg Cost: R809 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121 Operator: sa Rate: R0.10 Total: R931 Operator: sa Rate: R0.10 Total: R931 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R1221 Operator: sa Rate: R0.10 Total: R931 DATE	Operator: sa Rate: R0.13 Total: R194.33 Waste Type: Paper - Paper Ticket Number: WBT000031 Gross Weight: 16 350 kg Cost: R809.7 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121.4 Operator: sa Rate: R0.10 Total: R931.10 COMPLETED BY	Ticket Number:	WBT	000030		Gross	Weight:	17 65	0 kg	Cost:	R169.00
Waste Type: Paper - Paper Ticket Number: WBT000031 Gross Weight: 16 350 kg Cost: R809 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R127 Operator: sa Rate: R0.10 Total: R931 COMPLETED BY DATE	Waste Type: Paper - Paper Ticket Number: WBT000031 Gross Weight: 16 350 kg Cost: R809.7 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121.4 Operator: sa Rate: R0.10 Total: R931.11 COMPLETED BY DATE		2018	/11/01	10:08 pm		t Weight:		-		R25.35
Ticket Number: WBT000031 Gross Weight: 16 350 kg Cost: R805 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R127 Operator: sa Rate: R0.10 Total: R931 COMPLETED BY	Ticket Number: WBT000031 Gross Weight: 16 350 kg Cost: R809.7 Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121.4 Operator: sa Rate: R0.10 Total: R931.10 COMPLETED BY	Operator:	sa			Rate:		R0.13		Total:	R194.35
Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121 Operator: sa Rate: R0.10 Total: R931 COMPLETED BY DATE	Date Time: 2018/11/01 10:09 pm Product Weight: 8 097 kg VAT: R121.4 Operator: sa Rate: R0.10 Total: R931.10 COMPLETED BY DATE VAT R221.80 TOTAL R1 700.50 DRIVER	Waste Type:	Pape	er - Pape	<u>r</u>						
Operator: sa Rate: R0.10 Total: R931 COMPLETED BY	Operator: sa Rate: R0.10 Total: R931.10 COMPLETED BY DATE	Ticket Number:	WBT	000031		Gross	Weight:	16 35	0 kg	Cost:	R809.70
COMPLETED BY TOTAL R221 DATE DRIVER ProWaste	COMPLETED BY TOTAL R221.8 DATE DRIVER	Date Time:	2018	/11/01	10:09 pm	Produc	t Weight:		•		R121.46
COMPLETED BY TOTAL R1 700. DATE DRIVER	COMPLETED BY TOTAL R1 700.5"	Operator:	sa			Rate:		R0.10		Total:	R931.16
DATE ProWaste	DATE ProWaste ⁺								v	AT	R221.81
DRIVER	DRIVER ProWaste ⁺		-						то	TAL	R1 700.51
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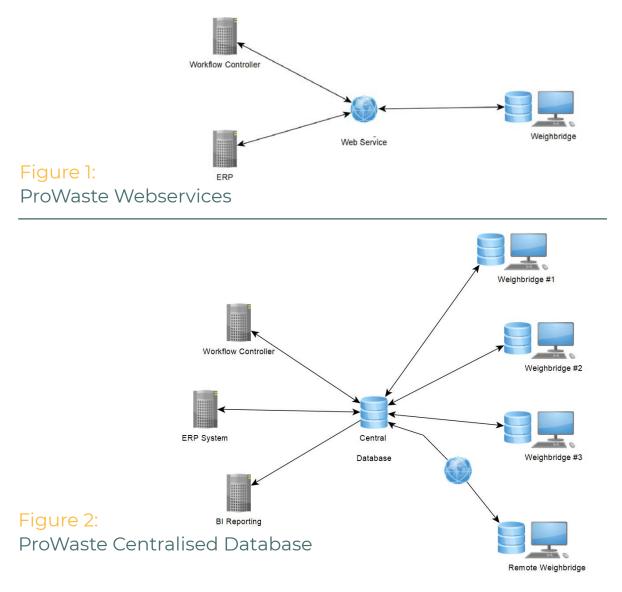
ERP Interfacing

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.



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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