



Accurately Weighing Africa



# PROWEIGH<sup>+</sup>

WEIGHING SYSTEMS SOFTWARE (PRO V4.1)

Building Block Weighing Software Solutions

## SASCO WEIGHING SYSTEMS

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**PROWEIGH+** is Sasco's core weighing software solution which can interface with most weighing indicators. The system has been developed on the principle of standardization with maximum in-built functionality.

Functionality levels are activated based on the User's license, and these range from straight forward basic weighbridge weighing, through to axle weighing, SOLAS weighing, multi bridge operations, weighbridge automation, and the total integration of weighing data generated with user IT systems, either directly or through the Cloud.

## Product Overview

Sasco has sought to develop a 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.

ProWeigh+ 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, axle weighing, SOLAS weighing, tare weighing, a range of ticketing formats including compliant axle weighing tickets and SOLAS weighing tickets and fleet data base management, is set up with South African permissible loading values and the language used is English.
- **Add-on Regional Functionality:** This add-on license provides for Portuguese and French language functionality and the selection of permissible loading values as set by the various countries in the Southern Africa region.
- **Add-on IT Interfacing Functionality:** This add-on license provides for either, the direct interfacing or indirect interfacing via the web, of all the weighing data contained on the hard copy weighing tickets generated by ProWeigh+, 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 ProWeigh+ to interface with and operate these devices through the weighing process.

# 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"> <li>• Single deck Weighbridges</li> <li>• Single Deck Axle Weighing Weighbridges</li> <li>• Multi Deck Weighbridges</li> <li>• Group Axle Weighers</li> <li>• Weigh-in Motion Axle Weighers</li> </ul>
Weighing Applications	<ul style="list-style-type: none"> <li>• Single Tare Weighing</li> <li>• Double Weighing</li> <li>• Axle Weighing and Total Weight</li> <li>• SOLAS Weighing</li> </ul>
Weighing Tickets	<ul style="list-style-type: none"> <li>• Standard</li> <li>• Compliant Axle Weighing</li> <li>• Compliant SOLAS Weighing</li> </ul>
Number of Weighing Devices	<ul style="list-style-type: none"> <li>• Single Device</li> <li>• Multi Devices</li> </ul>
Vehicle Fleet Management	<ul style="list-style-type: none"> <li>• Single Fleet Manager Database capable of storing '000 of vehicles</li> </ul>
Basis of Vehicle Configuration Identification	<ul style="list-style-type: none"> <li>• Image based</li> <li>• Automated using data in Fleet Manager Database</li> </ul>
Language	<ul style="list-style-type: none"> <li>• English</li> </ul>
Permissible Weight Regulations	<ul style="list-style-type: none"> <li>• South Africa</li> </ul>

ADD-ON REGIONAL LICENSE OPTION	
Language	<ul style="list-style-type: none"> <li>• Portuguese</li> <li>• French</li> </ul>
Permissible Weight Regulations	<ul style="list-style-type: none"> <li>• Botswana</li> <li>• Namibia</li> <li>• Mozambique</li> <li>• Zimbabwe</li> <li>• Zambia</li> <li>• Malawi</li> </ul>

# User License Options

## ADD-ON IT SYSTEMS INTERFACING LICENCE OPTION

Interfacing of Weighing Data to Customer IT Systems

- ProWeigh Business Connector for direct integration.
- ProWeigh Web Connector for connections via the web.

## ADD-ON AUTOMATION LICENCE OPTION

Automation Hardware Devices

- Robots
- Booms Cameras
- Electronic Display Board
- Bar code readers.
- Bar Code Reader
- QR Code Reader
- RFID Reader
- Internet Communications Card

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# Data Capture Sequencing

The data capture sequencing for ProWeigh+, both at the Standard License Level, and with Add-on licenses essentially follows a common sequencing:

**Capture Transaction - ProWeigh+**

**Capture Transaction/Load Weight**

**Sasco Africa**  
Totally legal. Totally accurate.  
Totally SASCO.

**Horse Registration**  
ABC123GP

**Trailer 1 Registration**  
XYZ456GP

**Trailer 2 Registration**  
Select a Vehicle Reg No...

Cancel Next

**First action:** Capture the registrations of the horse and trailer units. This must be inputted on the PC, key board or if Barcodes or QR Codes are being used these must be scanned.

**Second action:** For units that are pre-loaded on the Fleet Master file in ProWeigh, confirm the configuration picture that is generated. If not on the Fleet Manager database, select the right configuration picture from the menu.

**Capture Transaction/Load Weight**

**Sasco Africa**  
Totally legal. Totally accurate.  
Totally SASCO.

Is this the First weigh or Second weigh?  First  Second

Is the Vehicle Empty or Loaded?  Empty  Loaded

Horse Registration: ABC123GP

Trailer 1 Registration: XYZ456GP

Transporter Name: My Transport

Contact Person: 12345

Contact Number: 0821234567

Registration: ABC123GP

Transporter Full Name: My Transport

Transporter Address: 123 Oak Street, South Africa

Contact Person:

Payload: 10000

Insurance Provider:

Cover Type:

Cover Policy Number:

Type: Horse

Update

Sasco PAW

Sasco PAW retrieve failed. Local details loaded.

Cancel Back Next

**Process WIM Weigh**

**Vehicle Details**

Horse Registration: ABC123GP

Capacity (KG): 10000

Tare Weight (KG): 7500

Horse Steering Axles: 1

Horse No. of Axles: 3

Horse No. of Axle Groups: 1

TOTAL No. Axles: 5

TOTAL No. Axle Groups: 2

TOTAL Capacity (KG): 17 000

Trailer Registration	Vehicle Code	No. of Axles	No. of Axle Groups	Capacity (KG)	Tare Weight (KG)
XYZ456GP	T-D2	2	1	7000	6000

Configuration Vehicle Code: A1-D2;T-D2

Axis 1: 5100 / 7700 (Pass)

Axis 2: 5100 / 8800 (Pass)

Axis 3: 5100 / 8800 (Pass)

Axis 4: 3450 / 3500 (Pass)

Axis 5: 3300 / 3500 (Pass)

Weigh Load Now

21500

Vehicle Detected

Vehicle Speed (km/h): 1.5

Abort Weighing Weigh Completed

**Third action:** Once the weighing process is complete, print the weighing ticket. If ProWeigh is set up to integrate with the User's IT system or Sasco Cloud, all the relevant weighing information will also be immediately transmitted electronically to this data destination.

# 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 ProWeigh.

ProWeigh 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 ProWeigh to maintain and monitor various aspects of the software. This is well suited for large workflow-controlled environments.

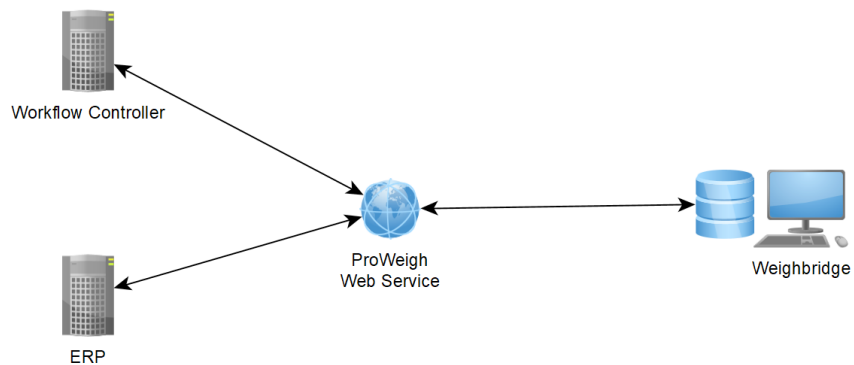


Figure 1:  
ProWeigh Webservices

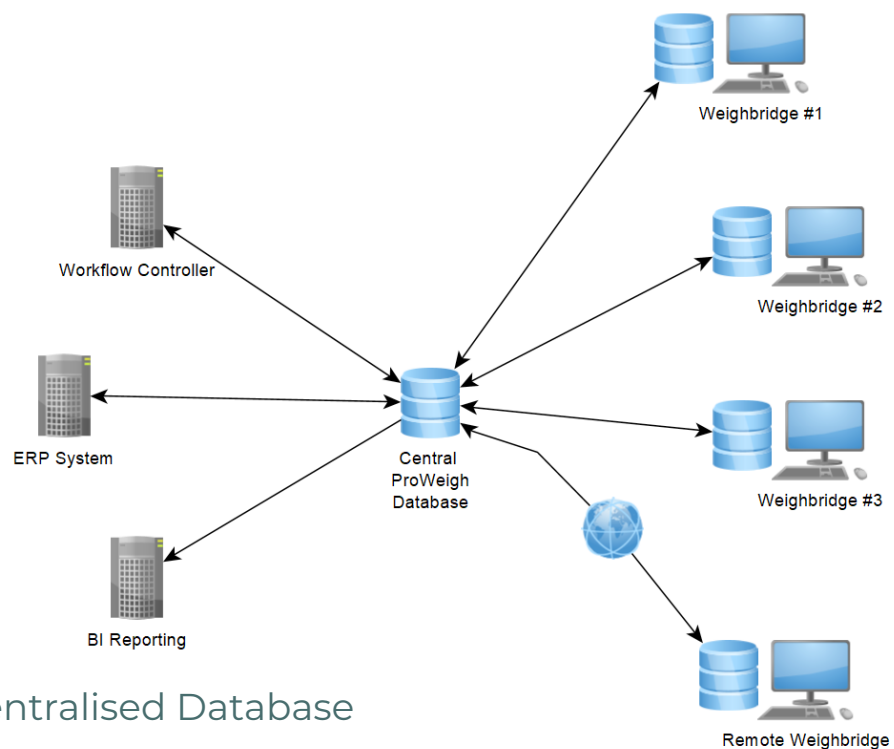



Figure 2:  
ProWeigh Centralised Database


# Axle Weighing Ticket Format

The standard Proweigh weighing ticket is set out below. The amount of data included on these weighing tickets will vary depending on the configuration of the system, the use of Fleet Manager and/or the integration with Sasco Cloud.

THIS DOCUMENTATION IS COMPLIANT WITH THE NATIONAL ROAD TRAFFIC AMENDMENT ACT OF 2008			
		<b>WEIGHBRIDGE TICKET SLIP</b>	
		Horse Registration	: ABC123GP
		Weighbridge Name	: Sasco Demo Weighbridge 1
		Company Name	: Sasco Customer Demo Company
		Site Name	: My Test Location
		Product	:
<b>TICKET NUMBER</b>	<b>WB T000068</b>	<b>TICKET DATE</b>	<b>2018/05/22 15:47:00</b>
<b>VEHICLE DETAILS</b>			
Registration Number	ABC123GP	XYZ456GP	
Type	Horse	Trailer	****
Operator	My Transport	My Transport	****
Contact Person	****	****	****
Insurance Provider	****	****	****
Cover Type	****	****	****
Policy Number	****	****	****
<b>TRADE WEIGHING DETAILS</b>			
<u>First Weigh Details</u>		<u>Second Weigh Details</u>	
Weight (kg)	15 430	Weight (kg)	21 500
Date Time	2018/05/22 15:42.51	Date Time	2018/05/22 15:46.59
Operator	sa	Operator	sa
		<u>Weigh Calculations</u>	
		NETT Weight (kg)	6 070
		Product NETT (kg)	6 070
		Total Difference (kg)	6 070
		Total Cost	R0,00
<i>** Scale Weights have been manually overwritten by Supervisor **</i>			
<b>LOADING DETAILS</b>			
<u>Axle Groups</u>	<u>Actual kg</u>	<u>Permissible kg</u>	<u>Difference kg</u>
Group 1	5 100	7 700	(2 600)
Group 2	10 200	17 600	(7 400)
Group 3	6 750	7 000	(250)
<b>TOTALS</b>	<b>22 050 kg</b>	<b>32 300 kg</b>	<b>(10 250)kg</b>
<b>CONSIGNEE DETAILS</b>			
Consignee Code	Address		
Consignee Name			
Document Number	SAS0000000002	Contact Name	****
Document Type	Sales	Contact Number	****
Document Weight	0		
<b>CONSIGNOR DETAILS</b>			
Consignor Name	Sasco Customer Demo Company	Contact Name	****
Address	1 Test Street	Contact Number	0117654321
	****		
	JHB		

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# SOLAS Weighing Ticket Formats

SOLAS COMPLIANT WEIGHING TICKET			
	WEIGHBRIDGE NAME: Sasco P&W Pomona		
	DATE AND TIME: 2018/07/11 8:00:00		
	SANAS CERTIFICATE: 1121990		
	CALIBRATION CERTIFICATE: 1121990		
	CALIBRATION DATE: 2019/01/19		
<b>TICKET NUMBER</b>	PM00002473	<b>TICKET DATE</b>	2018/07/11 8:00:00
TRANSPORTER INFORMATION			
Horse Registration:	TESTGP	Driver Name:	
Trailer 1 Registration:	TRAILER01GP	Captured by:	sa
Trailer 2 Registration:			
Transporter Name:	Test Company		
CARGO INFORMATION			
Customer Name:	Test Company		
Container Number:	MSKU2666542		
ISO Type:	ST20		
Load Type:			
Container Tare:	10 000	kg	
Seal Number:	S12346		
Empty Vehicle Weight:	14 000	kg	
Gross Vehicle Weight:	80	kg	
Gross Cargo Weight:	-13 920	kg	
Net Cargo Weight:	-23 920	kg	

COMPLETED BY \_\_\_\_\_ DRIVER \_\_\_\_\_  
DATE \_\_\_\_\_ DATE \_\_\_\_\_

This document also confirms that the minimum mass of the drive axles have been checked and that the mass on the steering axle has been checked for both over and under loading.

## Systems Requirements

Proweigh+ 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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This brochure contains a general guide of the product only and shall not form part of any contract unless specifically agreed by Sasco Africa in writing in each case on the Order Acknowledgement. The specification of the product described herein may vary from time to time and may be altered without notice.