Sasco Africa
Accurately Weighing Africa

PROWEIGH+

WEIGHING SYSTEMS SOFTWARE (PRO V4.6)

Proven, Practical, Popular

SASCO WEIGHING SYSTEMS

About Sasco

Founded in 1910, Sasco is Southern Africa's largest industrial weighing company, providing a wide range of weighing products, automation and software solutions, calibration services, training and maintenance support to leading industrial companies across all industrial sectors spanning Southern African, with South Africa being the largest market.

Sasco competes with numerous smaller scale, automation and software companies in these countries. Our vision is to expand our leading market position in the supply and support of complete ranges of accurate, reliable cost-effective weighing automation systems and software to include more data integration, cloud solutions and other technologies that complement weighing, to the whole Sub-Saharan Africa market.

Mission

Our mission is to harness advances in weighing product reliability, accuracy, automation, data integration and systems connectivity and the wider technological revolution in cloud solutions and hardware inter connectivity and deliver these advances to customers across the whole of Sub-Saharan African, as cost effective and simplified weighing and related solutions, making their operations more productive and successful.

In the past, weighbridges were manned with software requirement being simply to produce a weighing ticket reflecting the weighing result. Customers today requiring any number of solutions ranging from the integration of the weighing results into an ERP system, axle compliance weighing, SOLAS weighing, truck arrival assimilation with authorized fleet databases and complete weighbridge automation.

Simplistic weighing software cannot deliver these solutions and bespoke software needs to be specified and developed and are therefore expensive.

Sasco therefore concluded that the optimal solution was a modular building block weighing software solution that was simple to use, cost effective and allowed for the addition of functionality modules as required.

PROWEIGH +

ProWeigh V1.0 was launched in September 2009 with the objective to provide a cost-effective off the shelf software solution with a modular building block approach to adding functionality.

Since ProWeigh's initial launch, substantial developments have been made to the software's functionality while retaining its simplicity. ProWeigh V4.6 today satisfies most customer's needs without any further customization or development being required.
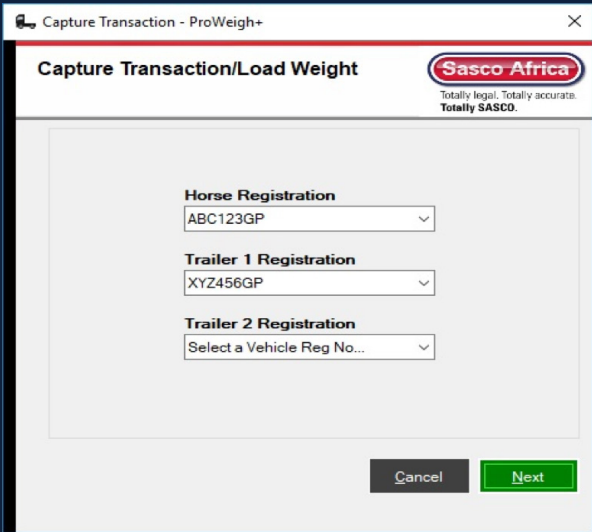
Proven

ProWeigh V4.6 has been developed incrementally from the initial base platform over a decade ago and is thus both proven and stable. This fact is further evidenced by the number of licenses that have been bought by customers spanning key sectors of the African economy.

Practical

A practical weighing solution is one that a weighbridge operators find easy to use. ProWeigh+ is exactly that software system:

CAPTURE HORSE AND TRAILER REGISTRATIONS

AND IF AXLE WEIGHING FUNCTIONALITY
ACTIVATED REVIEW MENU CONFIGURATION OPTIONS

AND IF AXLE WEIGHING FUNCTIONALITY
ACTIVATED SELECT CORRECT CONFIGURATION

CAPTURE GROSS WEIGHT ON FIRST WEIGHING

CAPTURE GROSS WEIGHT ON SECOND WEIGHING

PRINT STANDARD WEIGHING TICKET
(NO AXLE WEIGHING)

OR IF AXLE WEIGHING FUNCTIONALITY ACTIVATED
CAPTURE SECOND WEIGHING THROUGH THIS MENU

THEN PRINT WEIGHING TICKET WHICH INCLUDES AXLE PERMISSABLE WEIGHTS AND TOTAL WEIGHTS

THIS DOCUMENTATION IS COMPLIANT WITH THE NATIONAL ROAD TRAFFIC AMENDMENT ACT, 64 OF 2008

WEIGHBRIDGE TICKET SLIP

Horse Registration	VEHICLE
Weighbridge Name	Road train weighbridge2
Company Name	Assmang Blackrock Mine Operation
Site Name	****
Product	

SASCO ProWeigh⁺   Version 4.6.2   *** COPY ***

TICKET NUMBER	SMS00000019	TICKET DATE	2022/09/02 13:47

VEHICLE DETAILS

Registration Number	VEHICLE	TRAILER123	TRAILER456
Type	****	****	****
Operator	Private	****	****
Contact Person	****	****	****
Insurance Provider	****	****	****
Cover Type	****	****	****
Policy Number	****	****	****

TRADE WEIGHING DETAILS

First Weigh Details		Second Weigh Details		Weigh Calculations	
Weight (kg)	21,000	Weight (kg)	56,000	NETT Weight (kg)	35,000
Date Time	2022/09/02 13:43	Date Time	2022/09/02 13:46	Product NETT (kg)	35,000
Operator	sa	Operator	sa	Total Difference	35,000
				Total Cost	0.00

LOADING DETAILS

Axle Groups		Actual (kg)	Permissible (kg)	Difference (kg)
Group	1	7,600	7,700	-100
Group	2	16,000	18,000	-2,000
Group	3	16,000	18,000	-2,000
Group	4	16,400	18,000	-1,600
TOTALS		56,000	61,700	-5,700 Speed 0.00 km/h

CONSIGNEE DETAILS

Consignee Code		Address	
Consignee Name			
Document Number	ROA0000000002		
Document Type	Sales	Contact Name	****
Document Weight	0	Contact Number	****

CONSIGNOR DETAILS

Consignor Name	Assmang Blackrock Mine Operation	Contact Name	****
Address	****	Contact Number	****
	****		
	****		

Popular

Over a 1,000 ProWeigh+ licenses have been installed in across eight African countries, making ProWeigh + the most popular off the shelf weighbridge software in the Southern African market.

The functionality which has made ProWeigh+ so popular includes the following features:

- SELF INSTALLATION WITH INCLUSIVE SET UP TUTORIAL.

- INTERFACES WITH A WIDE RANGE OF WEIGHING INDICATORS.

- COMPATABLE WITH MANY DIFFERENT TYPES OF TRUCK WEIGHING SCALES.

- WIDE RANGE OF DEFINABLE MANDATORY AND CUSTOM INPUT FIELDS.

- PURCHASING AND PRODUCT MODULE INCLUDED AS STANDARD.

- FLEET TRANSPORTER MODULE INCLUDED AS STANDARD.

- WEIGHING TICKET EMAILING MODULE AS STANDARD.

- AXLE WEIGHING REPORTING MODULE INCLUDED AS STANDARD.

- PERMISSABLE AXLE LOADING LIMIT SET UP COUNTRY SPECIFIC.

- SOLAS COMPLIANT CONTAINER WEIGHING.

- ABILITY TO SET SPECIFIC % TOLERANCE OVERLOADING LIMITS.

- CAPABLE OF INTERFACING WITH MULTIPLE WEIGHBRIDGES.

- UNLIMITED NUMBER OF USERS PER SINGLE LICENSE.

- USER RIGHTS CAN BE SET PER INDIVIDUAL USER.

- AUTOMATED AUDITED TRAILS GENERATED FOR ALL TRANSACTIONS.

- AUTOMATED AUDIT TRAIL GENERATED FOR ALL SET UP CHANGES.

- DATABASES ALL MICROSOFT SEQUAL BASED.

- OPTION TO ADD ON ERP BUSINESS CONNECTOR MODULE.

- OPTION TO ADD ON AUTOMATION MODULE.

- OPTION TO UPGRADE TO PORTUGUESE AND FRENCH LANGUAGE MODULE.

- OPTION TO INTEGRATE SOLAS WEIGHING TO THE GLOBAL NAVIS CONTAINER SYSTEM.

- OPTION TO UPGRADE TO FUTURE VERSIONS.

- OPTION OF PURCHASING ADDITIONAL ONLINE SET UP SUPPORT.

- OPTION OF FURTHER CERTIFIED ONLINE TRAINING.

- ATTRACTIVELY PRICED.

- NO ANNUAL LICENSE FEES.

- DEVELOPED AND SUPPORTED FROM SOUTH AFRICA.

Creating Report Formats

ProWeigh+ has a highly flexible reporting functionality allowing for the customization of Report Formats.

The most common report format used for standard **Truck Weighing Tickets** include the following ticket fields:

- Site owner's logo and particulars.
- Weighbridge name and location.
- Ticket number.
- Transporter details.
- Horse and trailer registrations.
- Driver name.
- Cargo type.
- A range of cargo related particulars and related values.
- Time and date of first and second weighing.
- Empty weight, fully loaded weight and net weight.
- Weighbridge operator

The most common report format used for **Axle Weighing Enabled Truck Weighing** include the following additional ticket fields:

- Permissible axle group weights
- Actual axle group weights
- Differences (over or under loaded per axle group).
- Total permissible weight.
- Total actual weight.
- Difference (over or under loaded on total weight).

The most common report format used for **SOLAS** Tickets include the following fields:

- Weighbridge name and location.
- Weighbridge SANAS approval number.
- Calibration certificate number and date of calibration.
- Horse and trailer registrations.
- Customer name.
- Container number.
- ISO type.
- Load type.
- Container tare.
- Serial number.
- Combined vehicle empty weight.
- Gross vehicle weight.
- Gross cargo weight.
- Net cargo weight.

Data Integration

The **optional Business Connector Module** enables all data included in given Report formats to be interfaced with ERP Systems. Two distinct integration methods are offered:

ProWeigh Web Services

Workflow Controller

ProWeigh
Web Service

Weighbridge

ERP
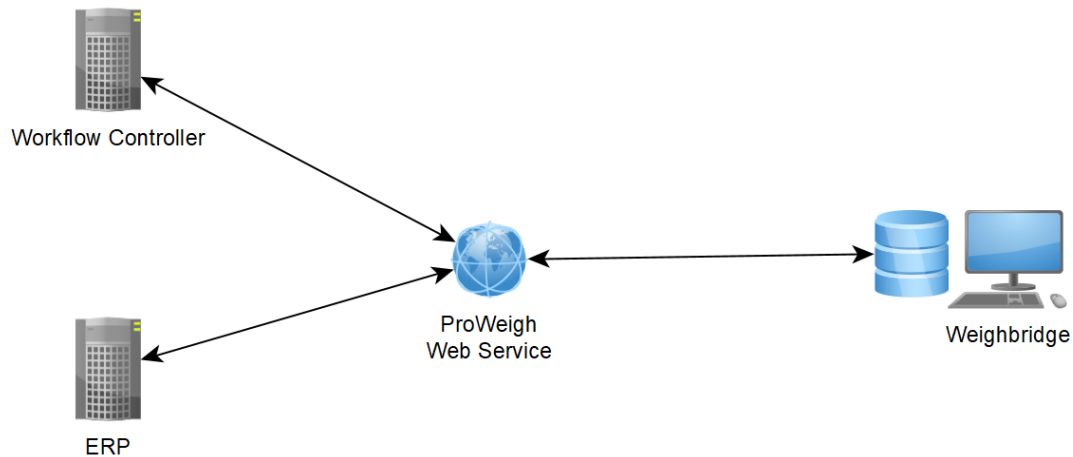
ProWeigh Business Connector

Weighbridge #1

Workflow Controller

Weighbridge #2

ERP System

Central
ProWeigh
Database

Weighbridge #3

BI Reporting

Remote Weighbridge
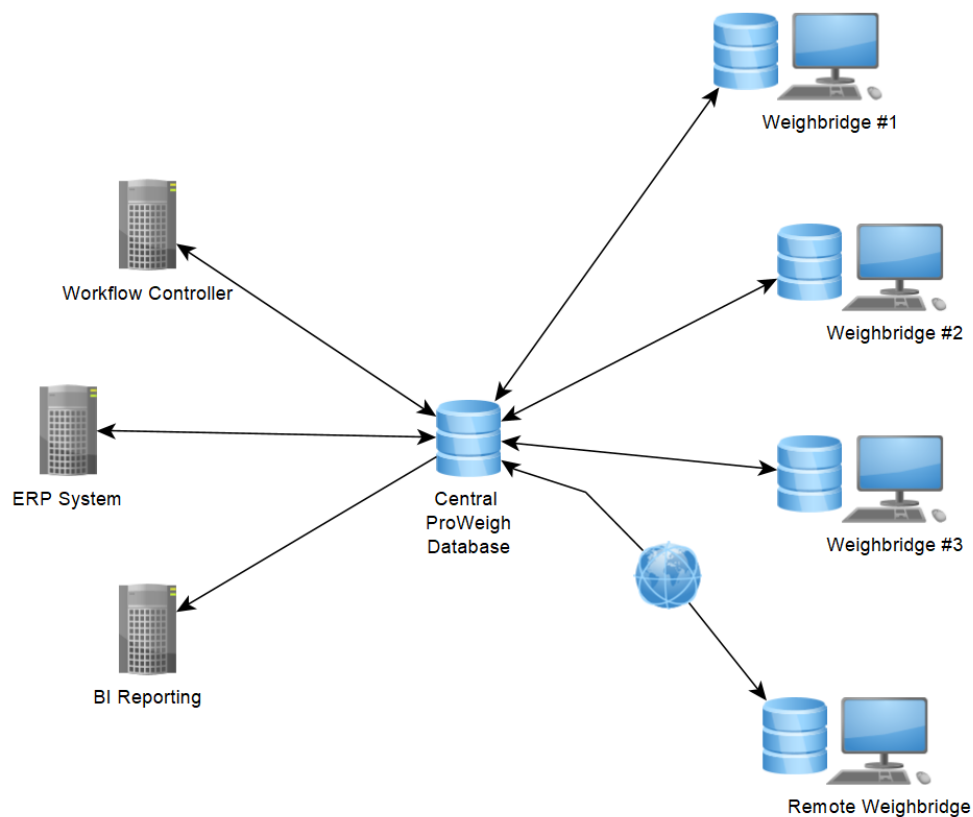
The optional NAVIS Interfacing Module enables the interfacing on the container details and weights with the NAXIS global ERP container management system.

Online Operator, User and Supervisor Training

Efficient weighbridge operations require that all persons involved in the weighing processes are fully empowered to perform as expected. This requires training.

Users of ProWeigh+ have the option of being certified under the following online courses, full details of which can be found at **www.sascoafrica.com/courses**

- Certified Weighbridge Operator course
- Certified ProWeigh+ Operator course.
- Certified ProWeigh+ Supervisor course
- Certified ProWeigh+ Technician course.

Application Case Study

Company A is a large terminal operator in a major African port. Inbound and outbound cargos comprise mixed break bulk and containers

Sasco was initially approached to supply four standard digital 24m weighbridges with weighing software capable of maintaining a database of approved trucks and capable of generating a standard weighing ticket showing the truck registration, time of weighing inbound and outbound weight, empty weight, gross weight and net cargo weight.

Four Sasco WB 80T CPD digital weighbridges were installed with instrumentation capable of generating both total weight and axle weights.

ProWeigh+ was installed but once **Company A** realized the potential of the software Sasco was requested to do a four-phase software and weighing automation upgrade comprising:

- **Phase One:** Upgrade the firmware in the DD1010 indicator supplied with the weighbridge to enable the indicator to generate axle weights as well as total weight and to modify the approaches to the weighbridge so that for the last 15m on the outbound approach the truck is level.

- **Phase Two:** Via remote support activate the axle weighing reporting module and SOLAS weighing Module included as standard on ProWeigh+.

- **Phase Three:** Install additional automation hardware on the weighbridge comprising a traffic boom, traffic lights, position sensors and an APNR camera, and upgrade the ProWeigh+ license to include the Automation add on module to manage the new automation hardware.

• **Phase Four:** On completion of Phases One, Two and Three, upgrade the ProWeigh+ license to include Business Connector, thus providing a seamless integration of the weighing data generated and reflected on the weighing ticket to Company A's ERP system.

System Requirements

Based on current 2022 computer specifications, ProWeigh+ has the following system requirements:

- CPU: Intel Core i5 (8th generation or newer) or AMD Ryzen 5 (3000 Series or newer)
- RAM: 8GB or Higher
- Storage: 500GB or More
- Network: Ethernet and Wi-Fi
- Serial Port if serial communication needed
- USB: 4 ports minimum
- Display Resolution: 1920 x 1080
- Operating System: Windows 10 or Windows 11

These will from time to time change as computer technology and operating systems advance.

Automation Hardware Options

ProWeigh+ Automation module can integrate with and control the following automation devices:

- 2 Traffic Lights.
- 2 Traffic Booms.
- 2 Truck Position Sensors.
- 1 Driver Terminal with Printer.
- 1 QR Code Reader.
- 1 RFID Reader.
- 1 ANPR Camera.
- Multiple Snapshot Cameras.

SMART SUPPORT

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