

PROG- GC WB

User Manual

Version 5.6



Laboratorio Metrologico LCD Srl
Pesatura industriale
Via Generale Nastri, 23
84098 Lancusi (SA)

ASSISTENZA

+39 089 954105
+39 089 954279
+39 335 8081596

HELP DESK

info@laboratoriometrologico.net
www.bilancialcd.it

SYMBOLS

Here are the symbols used in the manual to draw the reader's attention:



Pay particular attention to the following instructions.



Further information.

TABLE OF CONTENTS

INTRODUCTION	1
INSTALLATION AND START-UP	1
REGISTRATION	2
GENERAL SETTINGS	4
MAIN SCREEN.....	4
TOOLBAR	5
CONFIGURATION.....	5
<i>APPLICATION</i>	5
<i>DATABASE</i>	6
<i>SCALES</i>	8
<i>PRINTING</i>	10
<i>PROGRESSIVES</i>	12
<i>HTTP IPCAM</i>	13
ARCHIVE.....	14
<i>REGISTRY</i>	14
<i>HISTORICAL WEIGHT</i>	17
WEIGHING.....	18
CONFIGURING A WEIGHING OPERATION.....	18
<i>SELECTING THE SCALES</i>	19
<i>ADDITIONAL INFORMATION</i>	20
<i>RESET WEIGHT</i>	21
<i>CLOSING RCD</i>	21
SINGLE WEIGHING	21
DOUBLE WEIGHING	22
<i>FIRST WEIGHING</i>	22
<i>SECOND WEIGHING</i>	22
MULTIPLE WEIGHING.....	23
<i>INCOMING WEIGHINGS</i>	23
<i>OUTGOING WEIGHINGS</i>	23
MANAGING WEIGHING IMAGES.....	24
PRINT TEMPLATES	26
PRELIMINARY INFORMATION	26
CUSTOMIZING TEMPLATES	28
ADD TEMPLATES.....	33
PRINTOUT EXAMPLES	34
REMOTE DATABASE CONFIGURATION.....	36

INTRODUCTION

The PROG WBRIDGE software enables managing a fixed platform weighing system connected via a serial port or Ethernet TCP/IP connection from a PC.

Software features:

- Acquisition of the weight from fixed platforms;
- Printing incoming and outgoing cards;
- Storage of records (customers, vehicles and goods);
- Saving weighings to memory.



PROG WBRIDGE allows you to manage saves to the ALIBI memory of approved instruments, but it is not an approved software program. The primary indication of the weight of the approved system remains that of the instruments.

INSTALLATION AND START-UP



The software can be used on Windows XP or higher operating systems.

The .NET 4.0 framework, which is included in the installation package, must be installed for the software to function properly.

The application works on a local SQLite database or on a remote MySQL database.

Double-click on the installation file and follow the on-screen instructions.



You may need to perform this task as an administrator: in this case, right-click on the installation file and select "Run as administrator".

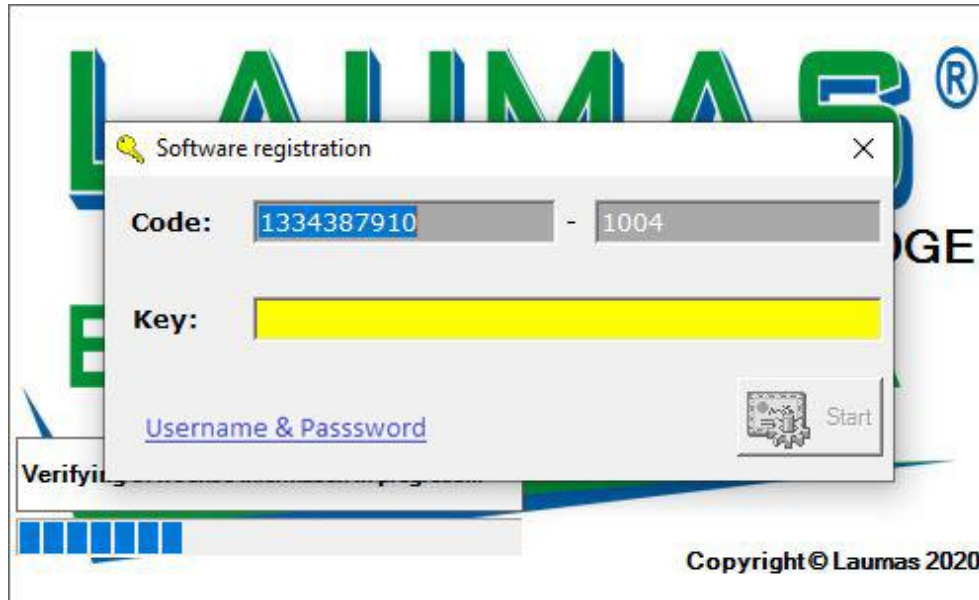
Once installed, launch PROG WBRIDGE from the Windows Start menu or double-click on the icon on the desktop.

REGISTRATION

The first time you start the software, it shows the *Software Registration* window where you can enter the login credentials.



To complete the registration, the PC must be connected to the internet.



To register the software, proceed as follows:

- Click on *Username & Password*: a second window will open to continue with registration;

Registrazione Prodotto

Codice: 1334387910 - 1004

Username: [Yellow Highlight]

Password: [Yellow Highlight]

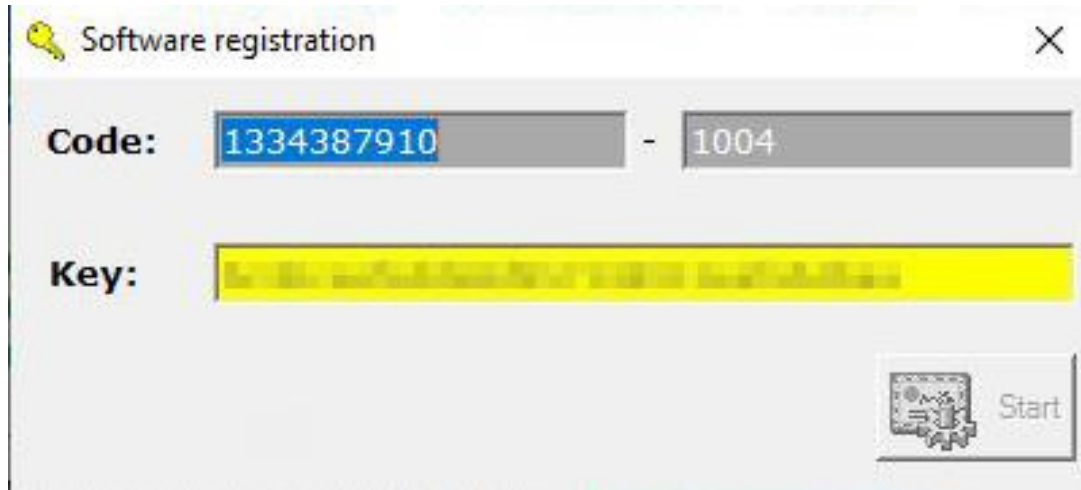
Riferimento: [Yellow Highlight]

Descrizione: [Empty Text Area]

Registra

- Enter the *Username* and *Password* provided by LAUMAS;
- Enter the code of the order confirmation received from Laumas in the *Reference* field;
- Enter a description, if any;

- Click on *Register*: the window will close taking you back to the previous window, where the *Key* field is now filled in with the login credentials;

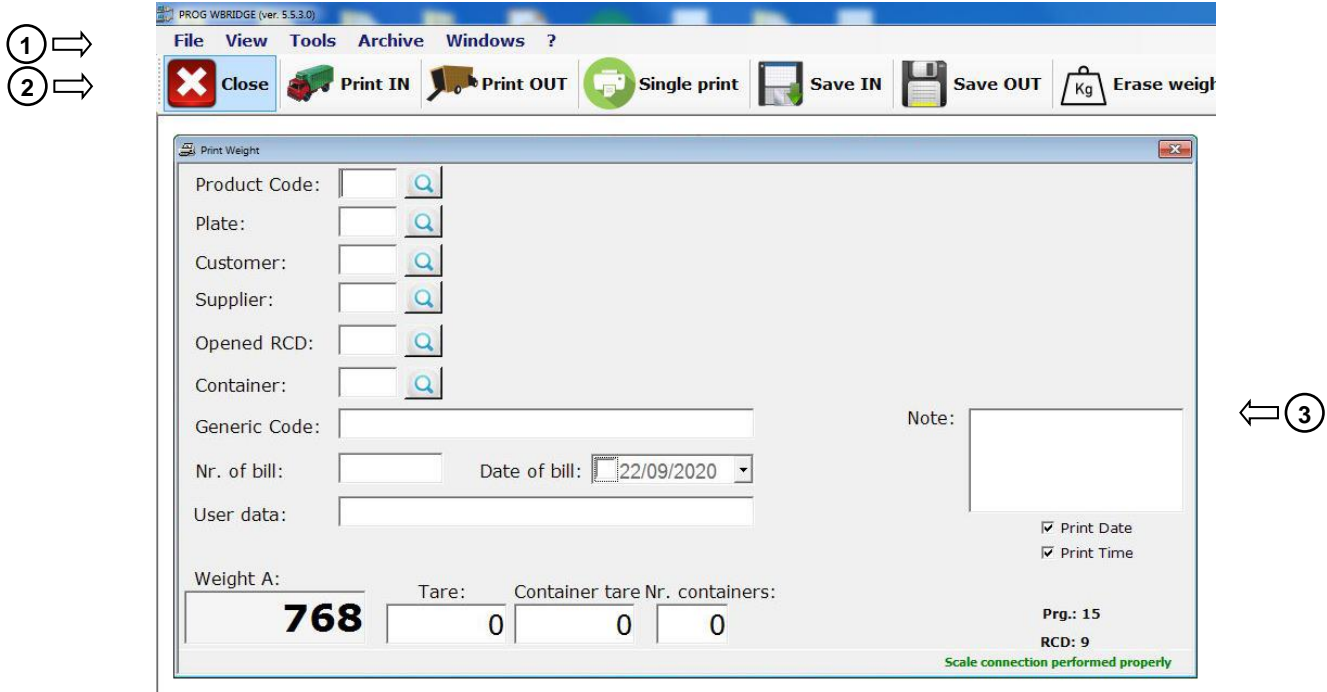


- Click on *Start* to complete registration.

GENERAL SETTINGS

MAIN SCREEN

At start-up, the software shows the *Print weight* window. For more information on use, see section **WEIGHING**.

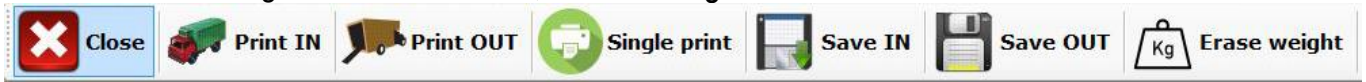


1. Menu
2. Toolbar
3. Active window

TOOLBAR

The toolbar contains function buttons that depend on the type of window that is active.

When the *Print weight* window is active, the following buttons are available:



For details on the operation of these buttons, see section **WEIGHING**.

When the *Configuration* or *Archive* windows are active, the following buttons are available:



For details about the operation of the buttons, see sections **CONFIGURATION** and **REGISTRY**.

The *Save*, *Delete* and *Print* functions can also be performed from *Menu* → *File*.

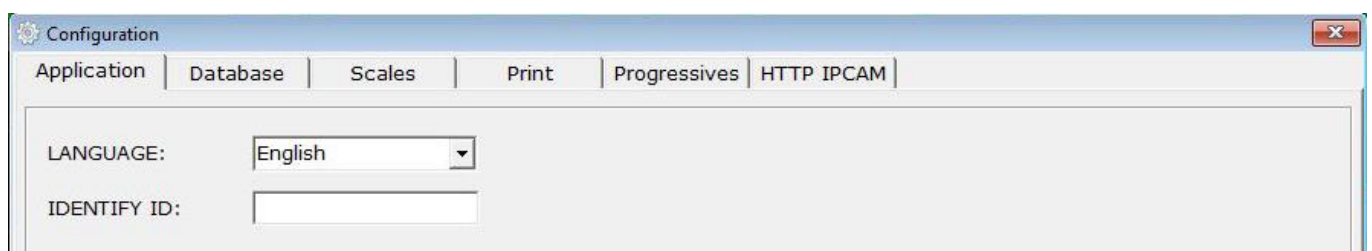
CONFIGURATION

To access the *Configuration* window, select the *Tools* → *Configuration* menu.

The functions available from the toolbar are:

- *Close*: close the active window;
- *Save*: save the changes made.

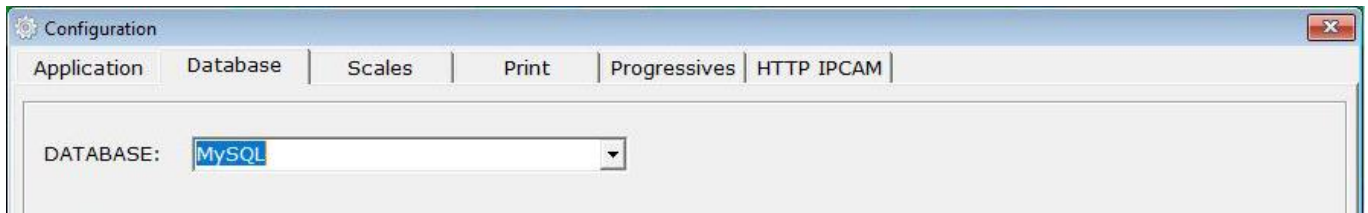
APPLICATION



LANGUAGE	Software language (you have to save and restart the software to apply the changes).
IDENTIFY ID	An alphanumeric code identifying the software (used in case of multiple installations of the application). It can be added to printouts.

DATABASE

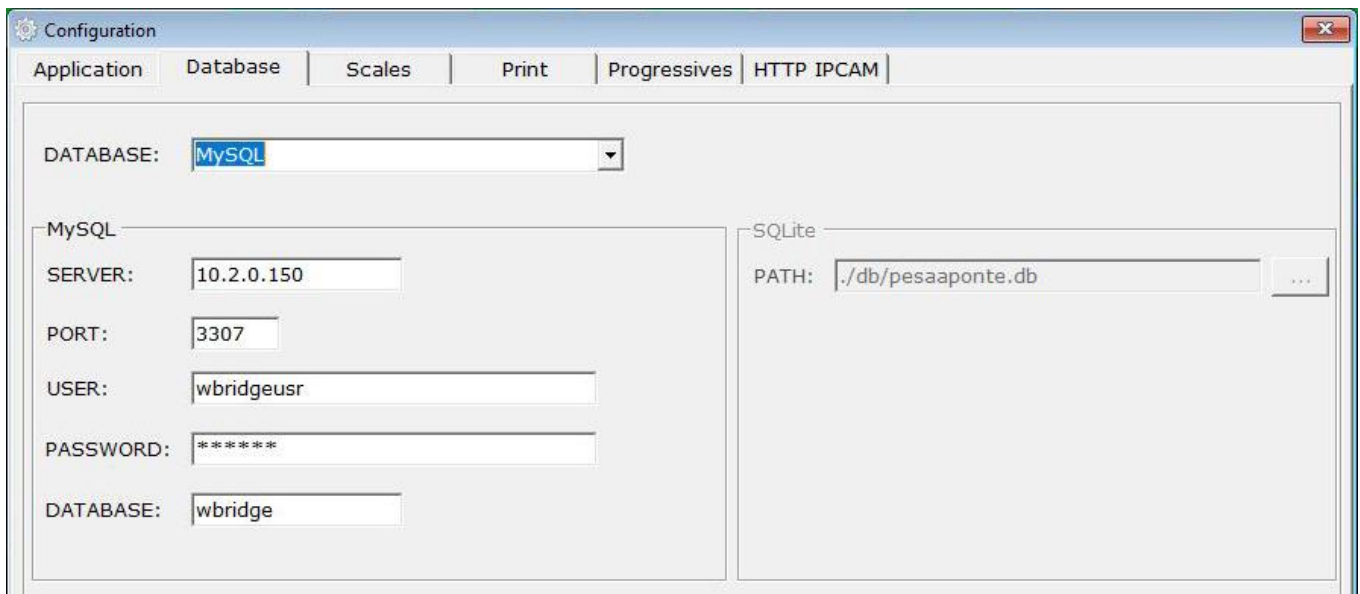
The *Database* tab allows you to select the type of database where you want to store the weighings and records.



DATABASE	Type of database for storing weighings and records: <ul style="list-style-type: none">• <i>SQLite</i>: Local database;• <i>MySQL</i>: Remote database.
-----------------	---

LOCAL DATABASE (SQLite)

SQLite requires the local path where the database is stored.



PATH	The local path where the SQLite database is stored.
-------------	---

REMOTE DATABASE (MySQL)



Using the remote database requires the installation and proper configuration of the MySQL Server software.

MySQL requires the necessary parameters to connect to the remote database.

SERVER	IP address of the MySQL server.
PORT	Port used for communicating with the MySQL server.
USER	The user name used to connect to the remote database.
PASSWORD	The password used to connect to the remote database.
DATABASE	Name of the remote database.



For more information about MySQL server configurations for proper operation of PROG WBRIDGE, see section **REMOTE DATABASE CONFIGURATION**.

SCALES

The *Scales* tab allows you to set up communications between the PC and the connected instruments.

The screenshot shows the 'Configuration' window with the 'Scales' tab selected. The 'DOUBLE SCAL.' dropdown is set to 'No'. The window is divided into two main sections: 'Scales A' and 'Scale B'. Each section contains settings for 'SCALES TYPE', 'PROTOCOL', 'ID ALIBI', 'TERM. ID', 'RS-232' (COM PORT, BAUDRATE, PARITY, DATABITS, STOPBITS), 'READING DELAY COM' (with a note 'time in milliseconds'), 'TCP/IP' (IP, PORT), 'Weight String Format' (FORMAT, START STR., END STR., START WEIGHT, LENGTH WEIGHT), and 'Traffic Light' (TRAFF. LIGHT, THRESHOLD Kg.).

DOUBLE SCAL.	<p>Selection of the number of scales in the system.</p> <ul style="list-style-type: none"> • <i>Yes</i>: the system works with two scales; • <i>No</i>: the system works with only one scales.
---------------------	--

The following parameters refer to the fields in the *Scales A* and *Scales B* areas. The fields for the *Scales B* area can be accessed only if the system is configured for working with two scales (*DOUBLE SCAL.* = *Yes*).

SCALES TYPE	<p>Type of communication between PC and scales:</p> <ul style="list-style-type: none"> • <i>RS-232</i> (serial) • <i>TCP/IP</i>
PROTOCOL	<p>Protocol for communications with the connected instrument. The protocol must be the same as the one active on the instrument (see section SERIAL COMMUNICATION SETTING in the instrument's manual):</p> <ul style="list-style-type: none"> • <i>Direct</i>: if the <i>CONTIN</i> protocol is active on the instrument in <i>MOD ED</i> mode; • <i>ModBus</i>: if the <i>MODBUS</i> protocol is active on the instrument.

ID ALIBI	Select <i>Yes</i> if the Alibi option is active on the instrument.
TERM. ID	ModBus address of the instrument on the serial network (only valid if <i>PROTOCOL = Modbus</i>).

RS232:

COM PORT	The COM port to which the scales is connected.
BAUDRATE, PARITY, DATABITS, STOPBITS	Serial communication parameters. The parameters must be the same as those set on the connected instrument (see section SERIAL COMMUNICATION SETTING in the instrument's manual).
READING DELAY COM	Milliseconds of wait between sending one request and the next one.

TCP/IP (only if *SCALES TYPE = TCP/IP*):

IP	IP address of the instrument to read the weight from.
PORT	Port of the instrument to read the weight from.

Weight String Format (only if *PROTOCOL = Direct*):

FORMAT	The type of string sent by the connected instrument.
START STR.	A character sequence that identifies the beginning of a string sent by the instrument.
END STR.	A character sequence that identifies the end of a string sent by the instrument.
START WEIGHT	The position, within the string, where the characters for the weight sent by the instrument begin.
LENGTH WEIGHT	The number of weight characters sent by the instrument.

Traffic light (only if *PROTOCOL = Modbus*):

TRAFF. LIGHT	<p>Selection of using a traffic light connected to the instrument:</p> <ul style="list-style-type: none"> • <i>Yes</i>: the system works with the traffic light connected to the instrument. To control the traffic light, the outputs OUT1 (Green light) and OUT2 (Red light) must be set on the instrument in <i>PLC</i> mode (see section OUTPUT AND INPUT CONFIGURATION in the instrument's manual); • <i>No</i>: the system will not work with the traffic light connected to the instrument.
THRESHOLD Kg.	Weight value (in kg) above which the traffic light indicates a red light.

PRINTING

The screenshot shows the 'Configuration' window with the 'Print' tab selected. The settings are as follows:

- PRINTER 1st WEIGHT: PDFCreator
- PRINTER 2nd WEIGHT: PDFCreator
- HEAD. 1st WEIGHT: Yes
- HEAD. 2nd WEIGHT: Yes
- HEAD. SINGLE WEIGHT: Yes
- COPIES 1st WEIGHT: 1
- COPIES 2nd WEIGHT: 1
- COPIES SING. WEIGHT: 1
- PRINT mc: No
- VIEW MESSAGE PRINT OK: No
- NR. DECIMALS MC: 0
- DELETE FIELDS AFTER PRINT: Yes
- PICTURE WEIGHT: No
- MODEL 1st WEIGHT: EN First Weight__Kube
- MODEL 2nd WEIGHT: EN Second Weight__Kube
- MODEL SING. WEIGHT: EN Weighted single__Kube
- MODEL 1st WEIGHT MULTI: EN First Weight__multi Kube
- MODEL 2nd WEIGHT MULTI: EN Second Weight__multi Kube

PRINTER 1st WEIGHT	Printer for incoming printouts (you must first install the printer and its drivers on your PC).
PRINTER 2nd WEIGHT	Printer for outgoing and single printouts (you must first install the printer and its drivers on your PC).
HEAD. 1st WEIGHT	Select <i>Yes</i> to add the header to the incoming prints.
HEAD. 2nd WEIGHT	Select <i>Yes</i> to add the header to the outgoing prints.
HEAD. SINGLE WEIGHT	Select <i>Yes</i> to add the header to the single printouts.
COPIES 1st WEIGHT	Number of copies printed during incoming printing.
COPIES 2nd WEIGHT	Number of copies printed during outgoing printing.
COPIES SING. WEIGHT	Number of copies printed during the single printing.
PRINT mc	Select <i>Yes</i> to add the section for conversion into cubic metres to the printouts.
VIEW MESSAGE PRINT OK	Select <i>Yes</i> to show a message, in PROG WBRIDGE, that confirms printing.

TEXT HEADER	Text to show as the header of printouts.
MODEL 1st WEIGHT	Print layout for incoming weighings.
MODEL 2nd WEIGHT	Print layout for outgoing weighings.
MODEL SING. WEIGHT	Print layout for single weighings.
MODEL 1st WEIGHT MULTI	Print layout for incoming printouts of multiple weighings.
MODEL 2nd WEIGHT MULTI	Print layout for outgoing printouts of multiple weighings.
NR. DECIMALS MC	Number of decimal places for the section for conversion into cubic metres.
DELETE FIELDS AFTER PRINT	Select <i>Yes</i> to remove the contents of all fields after printing.
PICTURE WEIGHT	Select <i>Yes</i> to acquire images during weighing. For more information, see section HTTP IPCAM .



You need to use the Crystal Report software to change the print layouts (see section **PRINT TEMPLATES**).

PROGRESSIVES

Via the *Progressives* tab you can check the progression of the weighing identifiers.

PROGRESSIVE	Weighing index, it is incremented with each weighing.
RCD	Complete weighing index, it is increased when a weighing is opened and associated with the corresponding closing weighing or with a single weighing (see section WEIGHING).
ID ALIBI A*	Weighing identifier in the Alibi memory of <i>Scales A</i> .
ID ALIBI B*	Weighing identifier in the Alibi memory of <i>Scales B</i> .
Read ID ALIBI A*	When you press the button, the <i>ID ALIBI A</i> field is updated with the value obtained from <i>Scales A</i> .
Read ID ALIBI B*	When you press the button, the <i>ID ALIBI B</i> field is updated with the value obtained from <i>Scales B</i> .

*Active if *PROTOCOL = ModBus* and *ID ALIBI = Yes*, see section **SCALES**.

You can manually change the contents of these fields to begin counting from the desired value, for example if you install the software in a system whose numbering has already advanced.



To confirm the changes to the weighing identification values, you need to save by clicking on *Save prog.*

HTTP IPCAM

The *HTTP IPCAM* tab allows cameras to be set up for image acquisition during weighing. For more information on this function, see section **MANAGING WEIGHING IMAGES**.

Each scales can be associated with two cameras *Camera 1* and *Camera 2*:

- *Camera 1*: main camera, on if *PICTURE WEIGHT* = Yes (see section **PRINTING**).
- *Camera 2*: secondary camera, on if *PICTURE WEIGHT* = Yes (see section **PRINTING**) and *Active* is selected in the *Camera 2* area.

The following parameters refer to the fields in the *Camera 1* and *Camera 2* areas and are only accessible if the cameras are on:

URL IP-CAM	URL to access the camera.
USER IP-CAM	User identifier for accessing the camera.
PWD IP-CAM	Password for accessing the camera.
Active	Select to turn on the secondary camera.

The setting of the configuration parameters depends on the type of cameras used and in particular on the structure of the string that has to be sent in order to capture an image. The following cases are possible:

URL IP-CAM	contains the <i>USER IP-CAM</i> and <i>PWD IP-CAM</i> parameters required to access the camera. In this case, you only need to fill in the <i>URL IP-CAM</i> field.
URL IP-CAM, USER IP-CAM and PWD IP-CAM	are sent separately. In this case, all three fields must be filled in.

ARCHIVE

The software provides archives in which to save different types of data.

Software features:

- *Close*: close the active window;
- *New element*: add a new item;
- *Save*: save a new item or confirm changes made to an existing item;
- *Delete*: delete an existing item;
- *Print*: print out the complete list of items.

REGISTRY

To access the archives, select the *Archive* menu and one of the following items:

- *Customer*: management of customer records.

CODE	REGISTRY	ADDRESS	CITY	ZIP C.	PROVINCE	TEL.	E-MAIL	VAT N.
12	LAUMAS Srl	Via I Maggio, 6	Montechiarugolo	43030	PR	0521683124	laumas@laumas.it	IT016611403

Data:

CODE

REGISTRY

ADDRESS

ZIP C. CITY PROV.

TELEPHONE

E-MAIL

VAT N.

FISCAL CODE

- *Supplier*: management of supplier records.

Management of Supplier

CODE	REGISTRY	ADDRESS	CITY	ZIP C.	PROVINCE	TEL.	E-MAIL	VAT N.
FR1	LAUMAS Srl	Via I Maggio, 6	Montechiarugolo	43030	PR	0521683124	laumas@laumas.it	IT016611403

Data:

CODE

REGISTRY

ADDRESS

ZIP C. CITY PROV.

TELEPHONE

E-MAIL

VAT N.

FISCAL CODE

- *Plate*: vehicle plates. A fixed tare can be associated with the vehicle whose value will be applied automatically when weighing.

Management of Plate

CODE	PLATE	TRAIL. PLATE	MEMBERSHIP	TAREW.
TR1	Ew345TR			0.00
TR2	RE657YU	KJ872ED		0.00
TR3	KJ537GF			25000.00

Data:

CODE

PLATE

TRAILER PLATE

MEMBERSHIP

TARE

- *Product*: product management.

CODE	DESCRIPTION	SPECIFIC GRAVITY	PRICE
GR	GRAVEL	25	0
CN	CONCRETE	45	0
SN	SAND	70	0

Data:

CODE

DESCRIPTION

SPECIFIC GRAVITY

PRICE

- *Platform*: management of the weighing platforms. A fixed tare can be associated with the platform whose value will be applied automatically when weighing.

CODE	DESCRIPTION	TARE
PD1	Container 20'	3700.00
PD2	Container 40'	4000.00

Data:

CODE

DESCRIPTION

TARE



For each item, the *CODE* field must be unique and cannot be repeated in two different items within the same archive.

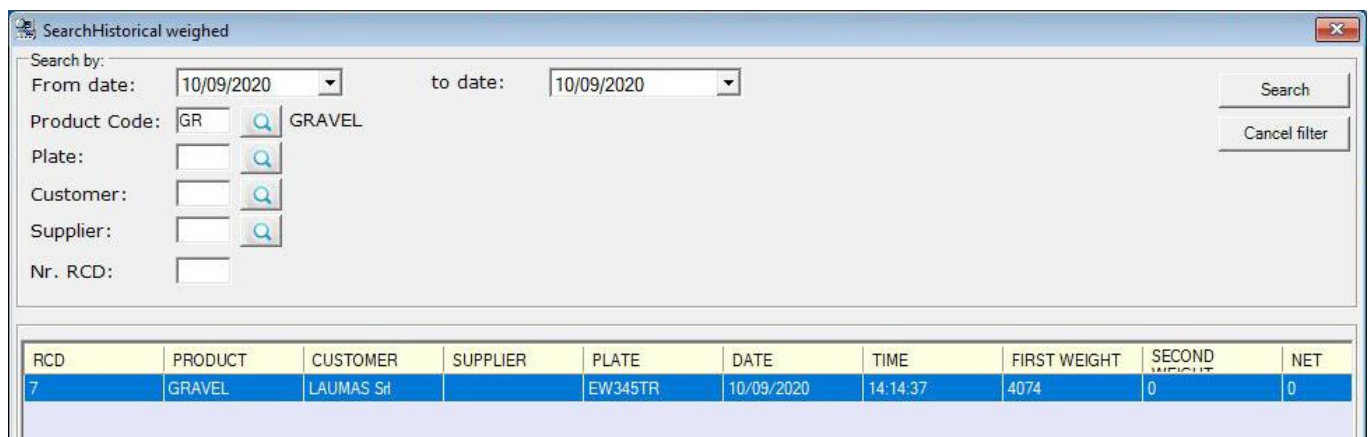
HISTORICAL WEIGHT

The *Historical weight* window allows you to view all the weighings carried out.

To access the *Historical weight* window, select the menu *Archive* → *Historical weight*

You can filter the items listed in the table using the fields at the top of the window to help you find the weighings. The date range “*From date*” “*to date*” is required in the search criteria, so you must enter a valid range in order to run a search.

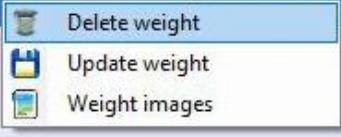
- Click on *Search* to show in the table the weighings that meet the criteria of the set filters;
- Click on *Cancel filter* to remove the active filters and clear the table contents;
- Click on the *Print* button in the Toolbar to print out the entire contents of the table.



The screenshot shows a window titled "SearchHistorical weighed" with search filters and a table of results. The filters include "From date" and "to date" (both set to 10/09/2020), "Product Code" (GR, GRAVEL), "Plate", "Customer", "Supplier", and "Nr. RCD". The table below has columns: RCD, PRODUCT, CUSTOMER, SUPPLIER, PLATE, DATE, TIME, FIRST WEIGHT, SECOND WEIGHT, and NET. One row is visible with RCD 7, PRODUCT GRAVEL, CUSTOMER LAUMAS Srl, SUPPLIER, PLATE EW345TR, DATE 10/09/2020, TIME 14.14.37, FIRST WEIGHT 4074, SECOND WEIGHT 0, and NET 0.

The table shows all the weighings, those already archived (*WEIGHT TYPE = HISTORICAL*) and those still operative and therefore not already archived (*WEIGHT TYPE = OPERATIONAL*).

PLATE	DATE	TIME	FIRST WEIGHT
EW345TR	10/09/2020		



The context menu shows three options: "Delete weight", "Update weight", and "Weight images".

To delete or edit a weighing, right-click on the desired row and select *Delete weight* or *Update weight*. To view the images associated with the weighing, select *Weight images*.

WEIGHING

The software allows the following weighing operations to be performed:

- Single weighing;
- Double weighing;
- Multiple weighing

Two identification indices are associated with each registered weight: *RCD* and *Progressive*.

- *RCD*: identification index of a weighing operation to which one or more weight values recorded during its execution may be associated;
- *Progressive*: identification index associated with each weight value recorded during the weighing operations.

CONFIGURING A WEIGHING OPERATION

To perform a weighing operation, you must open the *Print weight* window via the menu *Tools* → *Print weight*.

The *Close* button on the toolbar closes the window.

SELECTING THE SCALES

This window has two fields for displaying the weight values:

The screenshot shows a software window titled "Print Weight". It contains several input fields with search icons: Product Code, Plate, Customer, Supplier, Opened RCD, and Container. Below these are fields for Generic Code, Nr. of bill, Date of bill (set to 22/09/2020), and User data. A Note field is on the right. At the bottom, there are checkboxes for "Print Date" and "Print Time", and text indicating "Prg.: 15" and "RCD: 9". A status bar at the very bottom says "Scale connection performed properly".

Two callouts are present: a circled "1" with an arrow pointing to the "Weight A" field, which displays the value "768"; and a circled "2" with an arrow pointing to the "Tare" field, which displays the value "0". Other fields include "Container tare" (0) and "Nr. containers" (0).

1. Main field.
2. Secondary field.


The value displayed in the main field is the value used in the weighing operations.

Depending on the number of scales installed (DOUBLE SCAL. field, see section **SCALES**), the following cases can be distinguished:

Single scales (DOUBLE SCAL. = No)	the secondary field is not visible.
Double scales (DOUBLE SCAL. = Yes)	the secondary field and the <i>Read Scales B</i> selection are visible: <ul style="list-style-type: none"> • Select <i>Read Scales B</i> to show the weight read by scales B in the main field and the weight read by scales A in the secondary field; • Deselect <i>Read Scales B</i> to show the weight read by scales A in the main field and the weight read by scales B in the secondary field.

ADDITIONAL INFORMATION

The *Print Weight* window provides editable fields used to enter additional information associated with the recorded weighings:

- **Registry fields:** they correspond to items recorded in the software database (see section **REGISTRY**). These fields are filled in by entering the article's CODE, which can be typed in directly or selected from the corresponding table of the database that opens by clicking on the  icon:
 - o **Product Code:** identification code of the goods associated with the weighing;
 - o **Plate:** identification code of the plate associated with the weighing. If a tare value is associated with the selected plate, it is entered in the *Tare* field of the window;
 - o **Customer:** identification code of the customer associated with the weighing;
 - o **Supplier:** identification code of the supplier associated with the weighing;
 - o **Opened RCD:** identification code of an open weighing operation, i.e. one that has not terminated. The table that opens shows the list of open operations to be selected from. Filling in the field causes:
 - opening the *Multiple weight* table in the *Print weight* window that contains all the weight values associated with the selected RCD;
 - the possibility of making an outgoing weighing by associating it with the selected RCD.
 - o **Platform:** identification code of the platform associated with the weighing. If a tare value is associated with the selected platform, it is entered in the *Container tare* field of the window;
- **General Fields:** you can freely fill in the following fields: *Generic Code*, *Nr. of bill*, *Date of bill*, *User data* and *Note*, to add details to the weighing in progress.
- **Print selections:**
 - o **Print Date:** select to print the current date on the cards;
 - o **Print Time:** select to print the current time on the cards.
- **Prg.:** displays the progressive value associated with the last recorded weighing;
- **RCD:** displays the value associated with the last open RCD.



If the fields are left blank, the weighings and the printouts will not show the information.



The display of registry fields, general fields, date and time in printouts depends on entering the appropriate items in the print templates (see section **PRINTING**).

RESET WEIGHT

Before recording a weight, you can reset the selected scales in the main field by clicking on the *Erase weight* button on the toolbar.

The scales will only reset if the weight is within the allowed limits (see section **SEMI-AUTOMATIC ZERO** in the instrument manual).



This function is only available if *PROTOCOL = ModBus* (see section **SCALES**).

CLOSING RCD

To close all open weighing operations, proceed as follows:

- Select the menu *Tools* → *Close opened RCD*;
- Acknowledge the warning message;
- Wait for the message with the quantity of closed RCD to confirm closing.

Additional weighings cannot be associated with a closed RCD.

SINGLE WEIGHING

In the case of a single weighing, **only one weighing** of the truck is to be carried out. Weighing is done by clicking on the *Single print* button on the toolbar.



The unladen weight of the truck is used as a preset tare and can be entered in two ways:

- Direct entry: type the value in the *Tare* field;
- PLATE archive: call up a plate identification code from the *PLATE* field, the *Tare* field is populated with the tare value associated with the selected plate.

When recording the operation data, the unladen weight is considered the first weight and the gross weight value measured by the scales is the second weight.


The template of the printed card in the case of a single weighing is the one set in the field named *MODEL SING. WEIGHT* (see section **PRINTING**).


DOUBLE WEIGHING

In the case of double weighing, **two weighings** are carried out for each truck. The weighings are managed via the toolbar buttons.

FIRST WEIGHING

This operation can be performed in one of the following ways:

- Click on the *Save IN* button:
 - A new operation opens with the related association of an RCD;
 - The RCD is displayed in the *RCD* field of the *Print Weight* window;
 - The weight obtained from the scales is associated with a progressive and is recorded as the *FIRST WEIGHT* of the RCD created;
 - The presence of a value in the *Opened RCD* field opens the *Multiple weight* table in the *Print Weight* window.


- Click on the *Print IN* button:
 - A new operation opens with the related association of an RCD;
 - The RCD is displayed in the *RCD* field of the *Print Weight* window;
 - The weight obtained from the scales is associated with a progressive and is recorded as the *FIRST WEIGHT* of the RCD created;
 - The presence of a value in the *Opened RCD* field opens the *Multiple weight* table in the *Print Weight* window;
 - Printing a card according to the *MODEL 1st WEIGHT* (see section **PRINTING**).


SECOND WEIGHING



Before weighing, you must select an *Opened RCD* in the corresponding field of the *Print Weight* window.

This operation can be performed in one of the following ways:

- Click on the *Save OUT* button:
 - The weight obtained from the scales is associated with a progressive and is recorded as the *SECOND WEIGHT* of the selected RCD;
 - The *Multiple weight* table is updated with the weight value, indicated as a *OUT* type of weight;

- Click on the *Print OUT* button:
 - The weight obtained from the scales is associated with a progressive and is recorded as the *SECOND WEIGHT* of the selected RCD;
 - The *Multiple weight* table is updated with the weight value, indicated as a *OUT* type of weight;
 - Printing a card according to the *MODEL 2nd WEIGHT* (see section **PRINTING**);
 - Request to close the selected RCD.

MULTIPLE WEIGHING

In the case of multiple weighing, **several** intermediate in and out **weighings** are carried out for each truck. The weighings are managed via the toolbar buttons.

INCOMING WEIGHINGS

- Click on the *Save IN* button:
 - A new operation opens with the related association of an RCD;
 - The RCD is displayed in the *RCD* field of the *Print weight* window;
 - The weight obtained from the scales is associated with a progressive and is recorded as the *FIRST WEIGHT* of the RCD created;
 - The presence of a value in the *RCD* field opens the *Multiple weight* table in the *Print Weight* window.
- Repeat step 1 until all the incoming value recordings are complete without changing the selected RCD in the *Print Weight* window. Each recorded weight value:
 - Is associated with a *Progressive*;
 - Is associated with the *Opened RCD*;
 - Is displayed in the *Multiple weight* table with type *IN*;
- Click on the *Print IN* button:
 - Printing a card according to the *MODEL 1st WEIGHT MULTI* (see section **PRINTING**) which shows all the weight values recorded in the previous steps and a total value corresponding to their sum.



Printing the IN card does not close the *Opened RCD*.

OUTGOING WEIGHINGS



Before weighing, you must select an *Opened RCD* in the corresponding field of the *Print Weight* window.

- Click on the *Save OUT* button:
 - The weight obtained from the scales is associated with a progressive and is recorded as the *SECOND WEIGHT* of the selected RCD;
 - The *Multiple weight* table is updated with the weight value, indicated as a *OUT* type of weight.
- Repeat step 1 until all the outgoing value recordings are complete without changing the selected RCD in the *Print Weight* window;
- Click on the *Print OUT* button:
 - Request to close the RCD. Confirming with *Yes* concludes the operation;
 - Printing a card according to the *MODEL 2nd WEIGHT MULTI* (see section **PRINTING**). All the weight values associated with the RCD and an overall net weight value, obtained as the difference between the total of the outgoing weights recorded and the total of the incoming weights recorded, are printed out.



MANAGING WEIGHING IMAGES



- Function only available if *WEIGHING IMAGE* = Yes (see section **PRINTING**);
- Before proceeding, the camera parameters must be configured (see section **HTTP CAM**);

During the weighing operations the software manages the images in the following ways:

SINGLE WEIGHING	The entire operation is associated with an image for each active camera.
DOUBLE WEIGHING	For each operation one image is obtained for each active camera in the IN phase and one image for each active camera in the OUT phase.
MULTIPLE WEIGHING	Not supported.

The *Weight images* link appears in the *Print weight* window.

User data:




Weight A: Tare: Container tare Nr. containers: [Weight images](#)

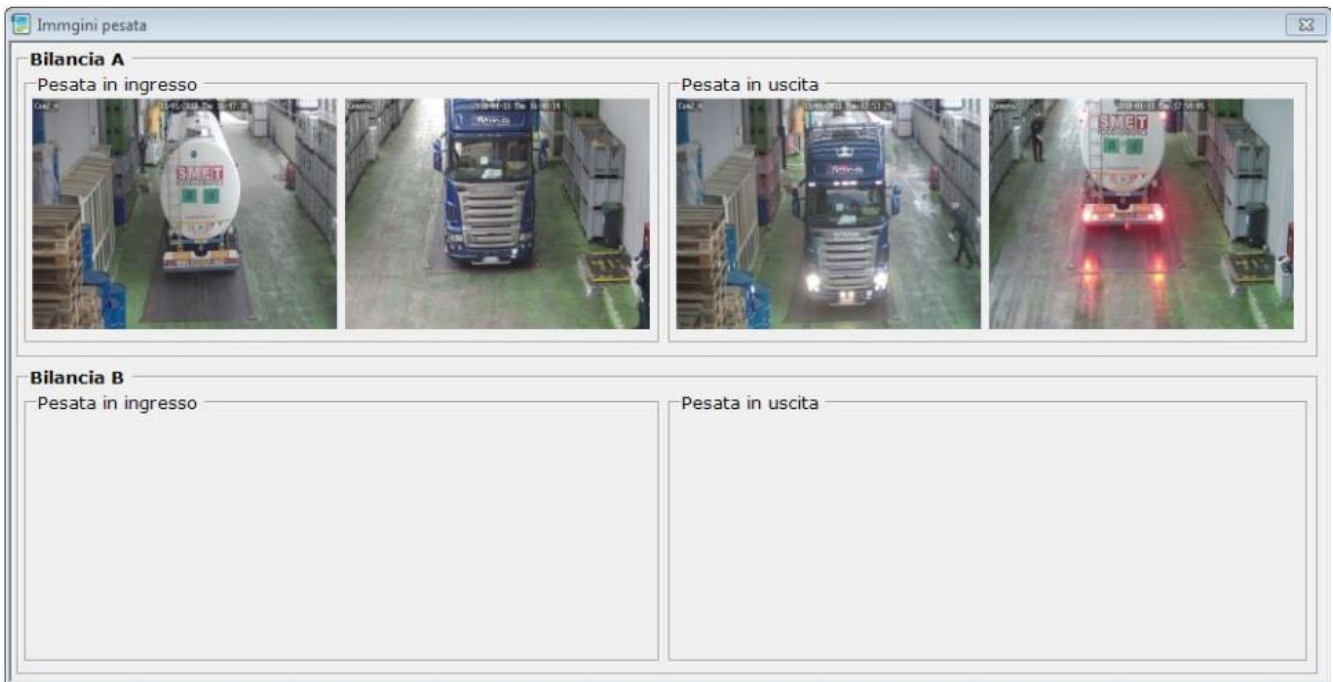
To view the images associated with an RCD:

- If the RCD is open:
 - o Open the *Print weight* window;
 - o Retrieve the RCD code from the *Opened RCD* field;
 - o Click on the *Weight images* link.

- Access to the *Historical weight* archive (see section **WEIGHING LOG**):
 - o Open the *Historical weight* window;
 - o Right-click on the desired row and select *Weight images*.

PLATE	DATE	TIME	FIRST WEIGHT
EW345TR	10/09/2020		

-  Delete weight
-  Update weight
-  Weight images



PRINT TEMPLATES

PRELIMINARY INFORMATION

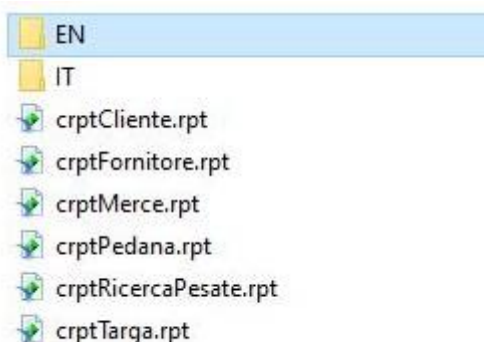
The print templates used in prints by the PROG WBRIDGE software are made using Crystal Report software, produced and distributed by SAP SE (not distributed in the PROG WBRIDGE installation package).

Files created with this application have an .rpt extension.

The standard software installation folder is the following:

C:\Program Files (x86)\LAUMAS\PROG WBRIDGE\

Given this reference, the print templates that can be customized are located in the Reports folder, organized as follows.



The templates in the report folder handle the prints described below (for more information on the tables mentioned, see sections **REGISTRY** and **WEIGHING LOG**).

TEMPLATE NAME	PRINTING
crptCliente.rpt	Prints items from the <i>Customer</i> table.
crptFornitore.rpt	Prints items from the <i>Suppliers</i> table.
crptMerce.rpt	Prints items from the <i>Product</i> table.
crptPedana.rpt	Prints items from the <i>Platform</i> table.
crptRicercaPesate.rpt	Prints items from the <i>Historical weight</i> table.
crptTarga.rpt	Prints items from the <i>Plate</i> table.

The two folders *EN* and *IT* contain respectively:

- English-language print templates for weighing operations;
- Italian-language print templates for weighing operations.

Within each folder, the print templates are divided by type of printer and by the presence of the fields that in the printouts show the data associated with a platform:

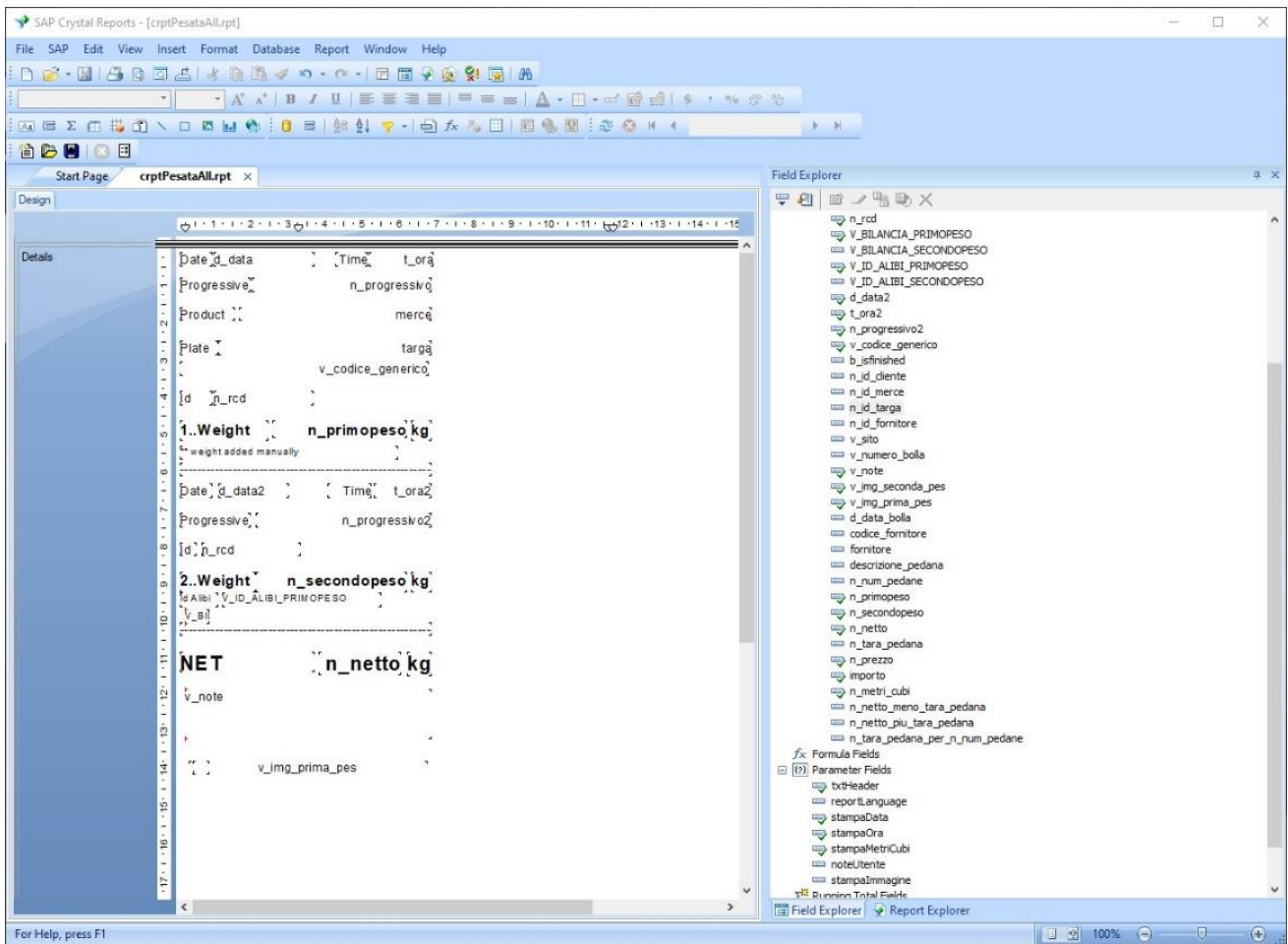


The following models are available:

TEMPLATE NAME	PRINTING
crptPesataAll.rpt	Template for printing a single weighing.
crptPrimaPesata.rpt	Template for printing the first weighing of a double weighing.
crptSecondaPesata.rpt	Template for printing the second weighing of a double weighing.
crptPrimaPesataMulti.rpt	Template for printing the incoming weighings of a multiple weighing.
crptSecondaPesatamulti.rpt	Template for printing the outgoing weighings of a multiple weighing.

CUSTOMIZING TEMPLATES

After opening a print template, the Crystal Report interface provides two main fields:



1

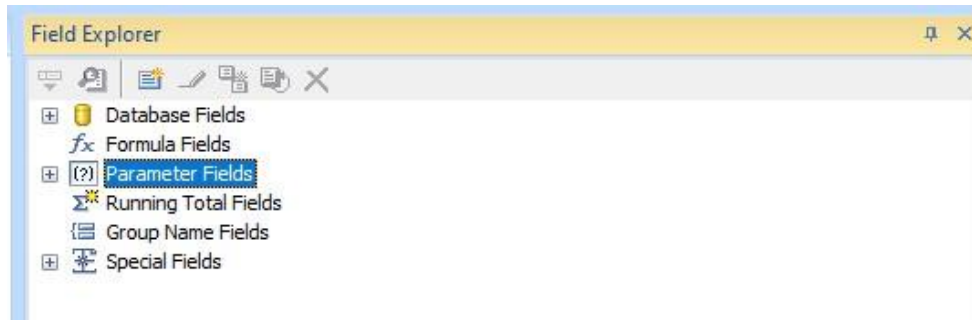
2

1. *Design*: shows the print structure corresponding to the open print template, highlighting the fields and their position;
2. *Field Explorer*: provides the set of fields that can be used within a print template.

Within an open print template in the *Design* field, there are two types of fields:

- *Text Field*: allows you to add generic text to the printout;
- *Data Field*: allows you to add information to the template whose value is determined when printing by the application in which the template is used.

Within the *Field Explorer* field, the available data fields are organized into groups.



For the following groups:

- *Database Fields*
- *Formula Fields*
- *Running Total Fields*
- *Group Name Fields*
- *Special Fields*

Refer to the Crystal Report software documentation for explanations and more information about how to use it correctly in print templates.

The fields in the *Database Fields* group are linked to the information available in the archive (see section **ARCHIVE**) of the PROG WBRIDGE software. The following table explains the information handled by each of these fields.

FIELD	DESCRIPTION	ARCHIVE TABLE
customer_code	Code of the customer selected in the <i>Print Weight</i> window.	CUSTOMER
customer	Name of the customer selected in the <i>Print weight</i> window.	CUSTOMER
product_code	Code of the goods selected in the <i>Print weight</i> window.	PRODUCT
product	Name of the goods selected in the <i>Print weight</i> window.	PRODUCT
plate_code	Code of the plate selected in the <i>Print weight</i> window.	PLATE
plate	Value of the plate selected in the <i>Print weight</i> window.	PLATE

d_date	Date of registration of the first weight.	HISTORICAL WEIGHT
t_time	Time of registration of the first weight.	HISTORICAL WEIGHT
n_specificgravity	Value of the specific weight assigned to the goods selected on the <i>Print weight</i> page.	PRODUCT
n_progressive	Value of the progressive number assigned to the first weighing.	HISTORICAL WEIGHT
n_rcd	Value of the RCD assigned to the weighing operation to which the printout refers.	HISTORICAL WEIGHT
V_SCALES_FIRSTWEIGHT	Code of the scales (A or B) used to measure the first weight.	HISTORICAL WEIGHT
V_SCALES_SECONDWEIGHT	Code of the scales (A or B) used to measure the second weight.	HISTORICAL WEIGHT
V_ID_ALIBI_FIRSTWEIGHT	Alibi ID value associated with the first weight.	HISTORICAL WEIGHT
V_ID_ALIBI_SECONDWEIGHT	Alibi ID value associated with the second weight.	HISTORICAL WEIGHT
d_data2	Date of registration of the second weight	HISTORICAL WEIGHT
t_oras2	Time of registration of the second weight.	HISTORICAL WEIGHT
n_progressive2	Value of the progressive number assigned to the second weight.	HISTORICAL WEIGHT
v_generic_code	<i>Generic code</i> entered in the <i>Print weight</i> window.	
b_isfinished	Weighing status.	
n_id_customer	Numerical index associated with the customer in the archive.	
n_id_product	Numerical index associated with the goods in the archive.	

n_id_plate	Numerical index associated with the plate in the archive.	
n_id_supplier	Numerical index associated with the supplier in the archive.	
v_site	<i>Identify ID field defined in the Application tab of the Configuration window.</i>	
v_number_of_bill	<i>Nr. of bill entered in the Print weight window.</i>	
v_note	Additional text entered in the <i>Note</i> space of the <i>Print weight</i> window.	
v_img_second_weigh	Printout of the image associated with the second weighing.	
v_img_first_weigh	Printout of the image associated with the first weighing.	
d_date_of_bill	Date of the delivery note indicated in the <i>Print weight</i> window.	
supplier_code	Code of the supplier selected in the <i>Print weight</i> window.	SUPPLIER
supplier	Name of the supplier selected in the <i>Print weight</i> window.	SUPPLIER
description_platform	Description of the platform selected in the <i>Print weight</i> window.	PLATFORM
n_num_platforms	Number of platforms indicated in the <i>Print weight</i> window.	
n_firstweight	Total value considered as first weight.	HISTORICAL WEIGHT
n_secondweight	Total value considered as second weight.	HISTORICAL WEIGHT
n_net	Net weight value, calculated as the difference between the second weight and first weight.	HISTORICAL WEIGHT

n_tare_platform	Tare value associated with the platform selected in the <i>Print weight</i> window.	
n_price	Value of the price assigned to the goods selected in the <i>Print weight</i> window.	PRODUCT
amount	Total amount relative to measured net weight.	
n_cubic_metres	Value in cubic metres corresponding to the recorded net weight.	
n_net_less_tare_platform	Weight value obtained as the difference between the net weight and the tare associated with the platform selected in the <i>Print weight</i> window.	
n_net_plus_tare_platform	Weight value obtained as the sum of the net weight and the tare associated with the platform selected in the <i>Print weight</i> window.	
n_tare_platform_by_n_num_platforms	Weight value obtained as the product of the tare associated with the selected platform and the number of platforms indicated in the <i>Print weight</i> window.	

ADD TEMPLATES

To make a new Crystal Report print template available to PROG WBRIDGE, perform the following steps:

- Go to the folder C:\Program Files (x86)\LAUMAS\PROG WBRIDGE\config. There are two text files in the folder:
 - o en_ModelloStampe.txt: contains the list of print templates available in the selected English language;
 - o it_ModelloStampe.txt: contains the list of available print templates for the selected Italian language.
- Open the file you want to change according to the language set in the software;
- Add a line to the text file using the following syntax.
Template file path=Template name

The name of the new template appears in the selection of the print template to be associated with a specific printout (see section **PRINTING**).

Example:

```
./report/EN/Custom/crptPrimaPesata.rpt=First model name
```

The line identifies:

- Template file path: ./report/IT/Pers/crptPrimaPesata.rpt;
- Template name: *First model name*.



The text files are stored in the C:\Program files(x86) folder and you need to run the program you choose to edit them with administrator rights.

DOUBLE WEIGHING OUT

Date 10/09/2020 Time 16:56:31

Progressive 11

Product RICE

Customer LAUMAS Srl

Plate EW345TR

Id 10

1.Weight 5675 kg

Id Alibi

A

Date 10/09/2020 Time 16:57:44

Progressive 12

Id 10

2.Weight 8444 kg

Id Alibi

A

NET 2769 kg

REMOTE DATABASE CONFIGURATION



The following instructions can only be applied after a successful installation of a MySQL server. Correct operation is guaranteed up to version 5.7.30 of MySQL.



The referenced scripts are available for download on the LAUMAS website page dedicated to the PROG WBRIDGE software.

Open the GRANT_USER.sql script with a text editor and type in the password that you want to associate with the *wbridgeusr* user, which you use to remotely access the database.

Example:

The script in the original version.

```
1  -- PwdWBridge
2
3  GRANT USAGE ON `wbridge`. * TO 'wbridgeusr'@'localhost' IDENTIFIED BY PASSWORD;
4  GRANT USAGE ON `wbridge`. * TO 'wbridgeusr'@'%' IDENTIFIED BY PASSWORD;
5
6  GRANT ALL PRIVILEGES ON `wbridge`. * TO 'wbridgeusr'@'localhost';
7  GRANT ALL PRIVILEGES ON `wbridge`. * TO 'wbridgeusr'@'%';
8
9  FLUSH PRIVILEGES;
10
```

The script modified to set '*Wbridgepsw*' as the password associated with the user '*wbridgeusr*'.

```
1  -- PwdWBridge
2
3  GRANT USAGE ON `wbridge`. * TO 'wbridgeusr'@'localhost' IDENTIFIED BY 'Wbridgepsw';
4  GRANT USAGE ON `wbridge`. * TO 'wbridgeusr'@'%' IDENTIFIED BY 'Wbridgepsw';
5
6  GRANT ALL PRIVILEGES ON `wbridge`. * TO 'wbridgeusr'@'localhost';
7  GRANT ALL PRIVILEGES ON `wbridge`. * TO 'wbridgeusr'@'%';
8
9  FLUSH PRIVILEGES;
10
```

Using the tools provided by the installed MySQL server, run the scripts in the following order:

1. DATABASE_MYSQL.sql
2. GRANT_USER.sql
3. ALTER_DATABASE_0001.sql
4. ALTER_DATABASE_0002.sql
5. ALTER_DATABASE_0003.sql

Once the scripts are executed, the MySQL server has a database that any instance of PROG WBRIDGE can access remotely using the data defined in the GRANT_USER.sql file for the connection.



For more information on how to configure the PROG WBRIDGE connection to the database, see section **DATABASE**.

On our website www.laumas.com there are videos on the guidelines for correct installation of weighing systems and video tutorials on configuring our transmitters and weight indicators.

All Laumas product manuals are available online. You can download the manuals in PDF format from www.laumas.com by consulting the Products section or the Download Area. Registration is required.

Think about the environment before you print!

CERTIFICATION OF THE ENVIRONMENTAL MANAGEMENT SYSTEM

in accordance with UNI EN ISO 14001.

Laumas contributes to environmental protection by saving on paper consumption.