EN

BP WIN PLUS TOUCH

USER MANUAL

VERSION 7.1

GRUPO EPELSA

www.grupoepelsa.com

Index

0 . Installation of BPWIN Plus.
1 . Install MySql Database.
2 . Install BpWin Plus.
3 . Install Neural Labs driver
4 . Creation of the structure.
4.1 Demo Mode.
5 . License Activation.
6 . Licence Types.
7 . Node Creation.
8 . General configuration of the application
- 8.1 TAB Data field.
- 8.2 TAB General
- 8.3 TAB Printer
- 8.4 TAB Access
- 8.5 TAB Languages
- 8.6 TAB Automatic
- 8.7 TAB Style
- 8.8 TAB Guided Mode
- 8.9 TAB Auto TAB Export File

9 . Data editing
- 9.1 Companies
- 9.2 Users
- 9.3 Types of Weights
- 9.4 Customers / Suppliers
- 9.5 Products
- 9.6 Carriers
- 9.7 Drivers
- 9.8 Origin
- 9.9 Destination
- 9.10 Licence plates

10 . Working operations
11 . Ticket Editor.
12 . Listings.
13 . Weighing History Table
14 . Customised Listings.
15 . Input/Output Files.

0. BPWIN_PLUS INSTALLATION

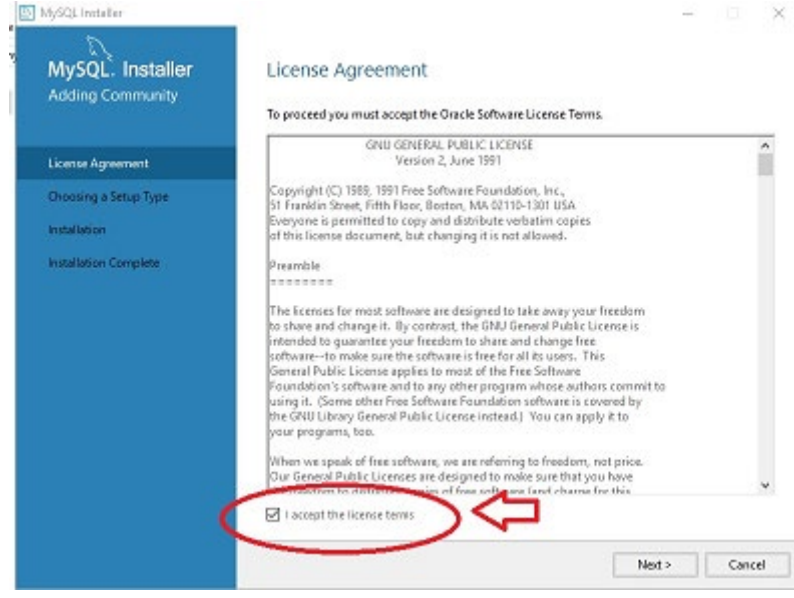
The complete installation contains three folders with installation packages: Folders:

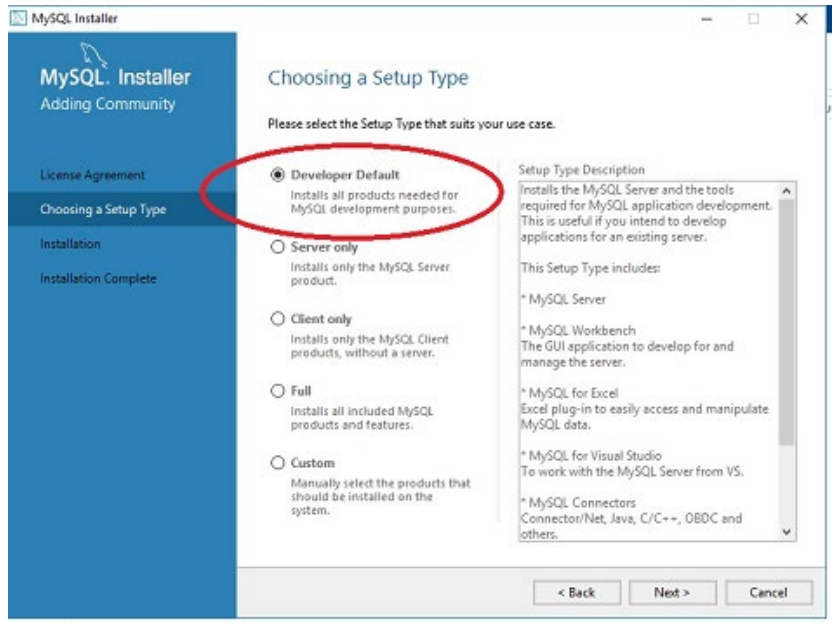
mySql_worbench
InstallBpWinPlus_V X.X
DriversNeuralLabs_Vpar

1. INSTALL MYSQL DATABASE

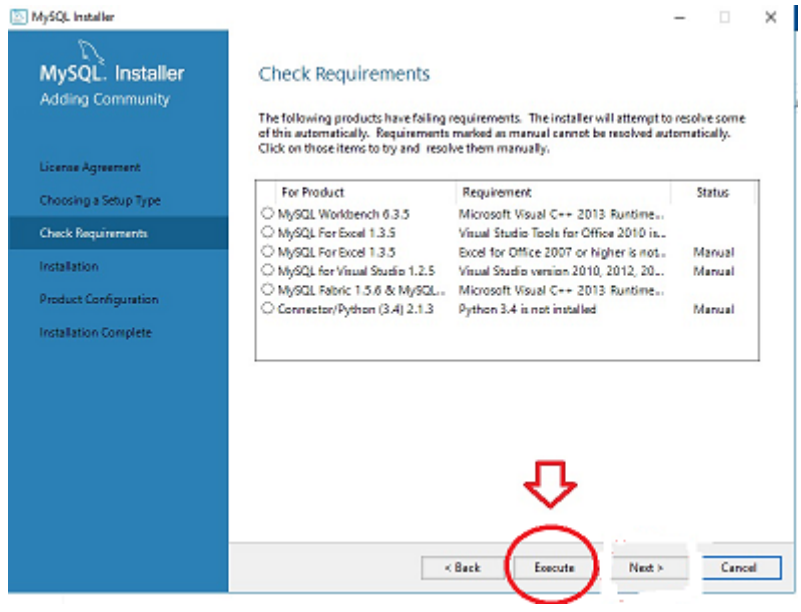
Go to mySql_worbench folder and run installation mysql-installer-community-5.7.9.1.msi

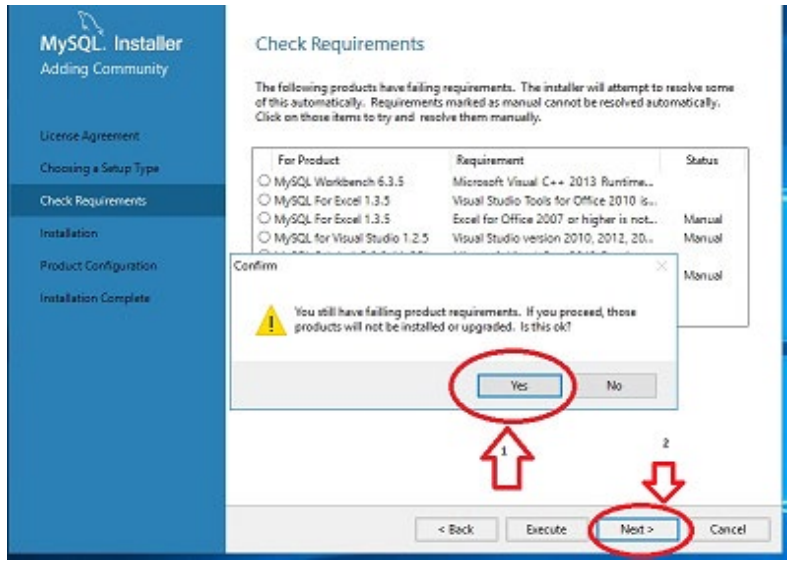
Follow the installation steps.

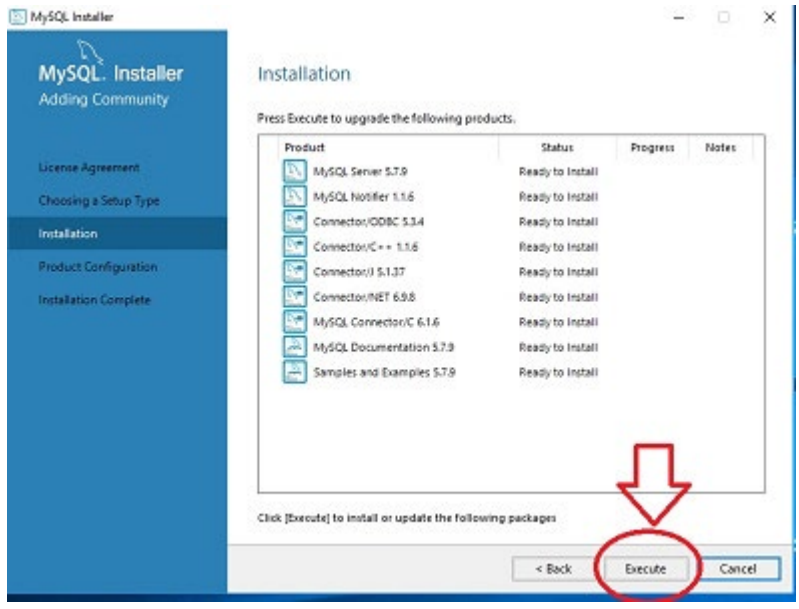


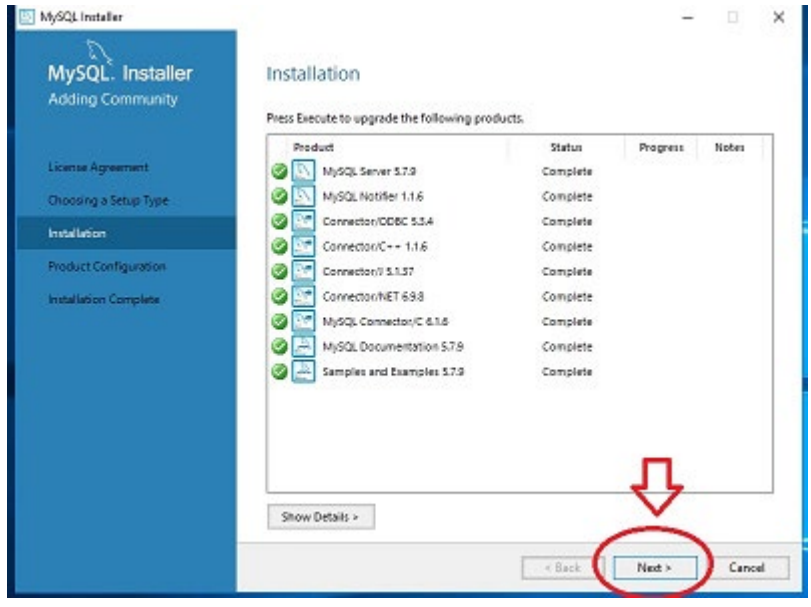


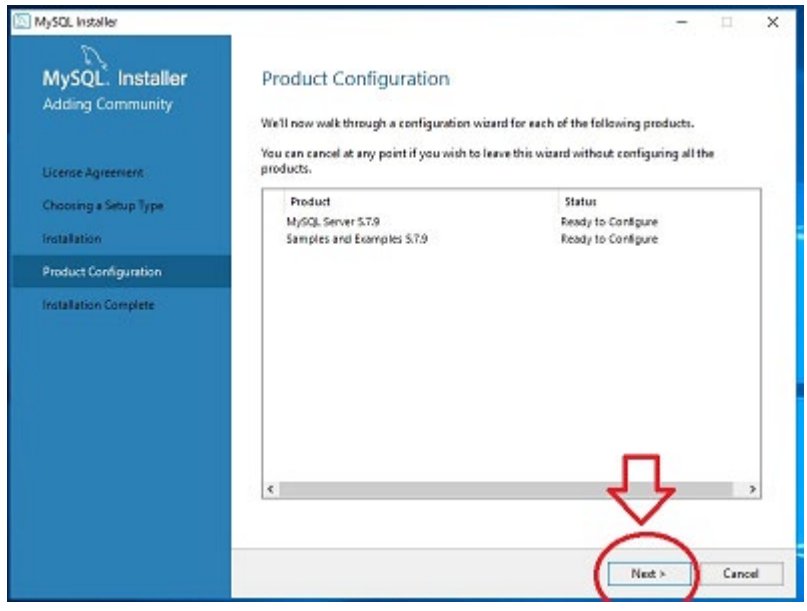
When you reach the Check Requeriments screen, press the run button to install the necessary requirements.

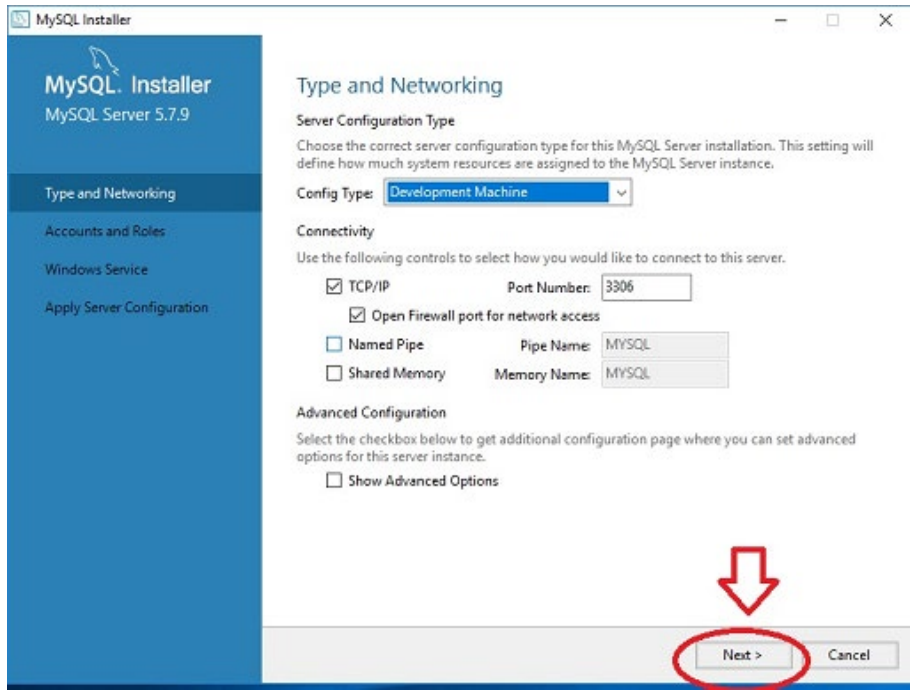




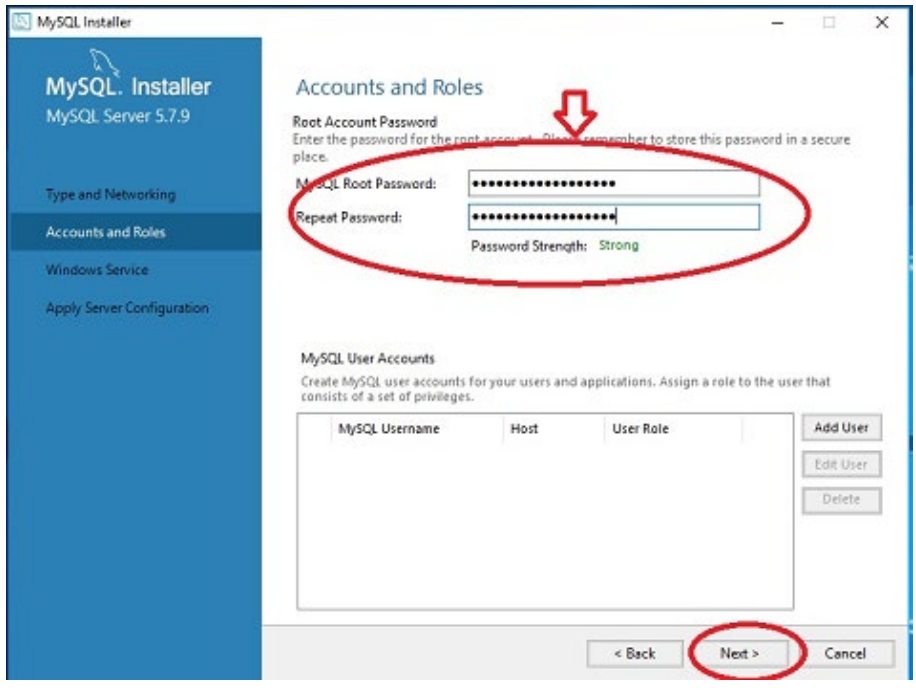

MySQL Installer
MySQL. Installer
Adding Community
License Agreement
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Installation
Press Execute to upgrade the following products.
Product
Status
Progress
Notes
MySQL Server 5.7.9
MySQL Notifier 1.1.6
Connector/ODBC 5.3.4
Connector/C++ 1.1.6
Connector/J 5.1.37
Connector/NET 6.9.8
MySQL Connector/C 6.1.6
MySQL Documentation 5.7.9
Samples and Examples 5.7.9
Ready to Install
Click [Execute] to install or update the following packages
< Back
Execute
Cancel

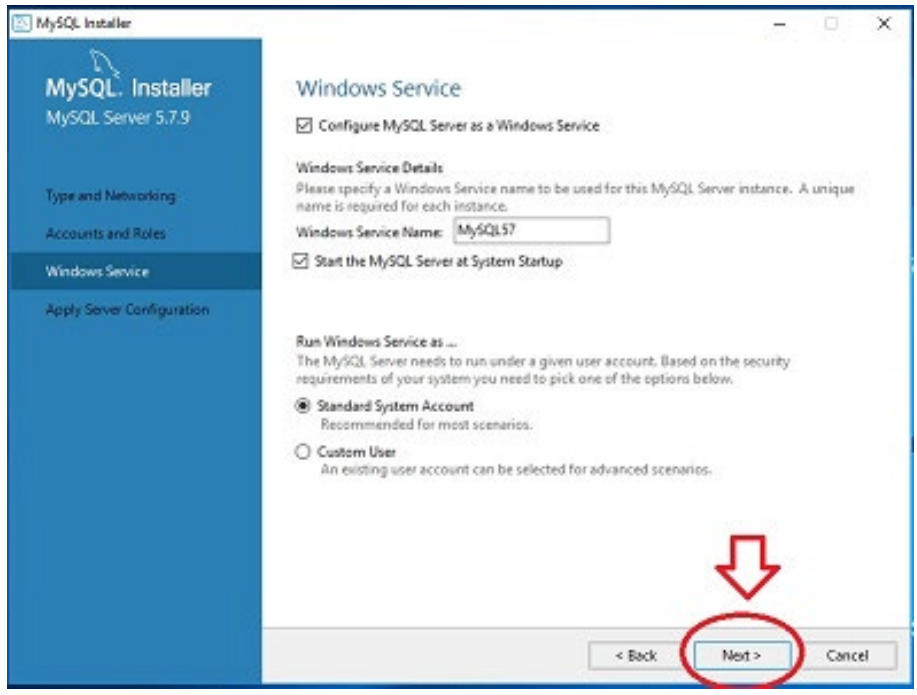

MySQL Installer
MySQL. Installer
Adding Community
License Agreement
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Installation
Press Execute to upgrade the following products.
Product
Status
Progress
Notes
MySQL Server 5.7.9
MySQL Notifier 1.1.6
Connector/ODBC 5.3.4
Connector/C++ 1.1.6
Connector/J 5.1.37
Connector/NET 6.9.8
MySQL Connector/C 6.1.6
MySQL Documentation 5.7.9
Samples and Examples 5.7.9
Complete
Show Details >
< Back
Next >
Cancel

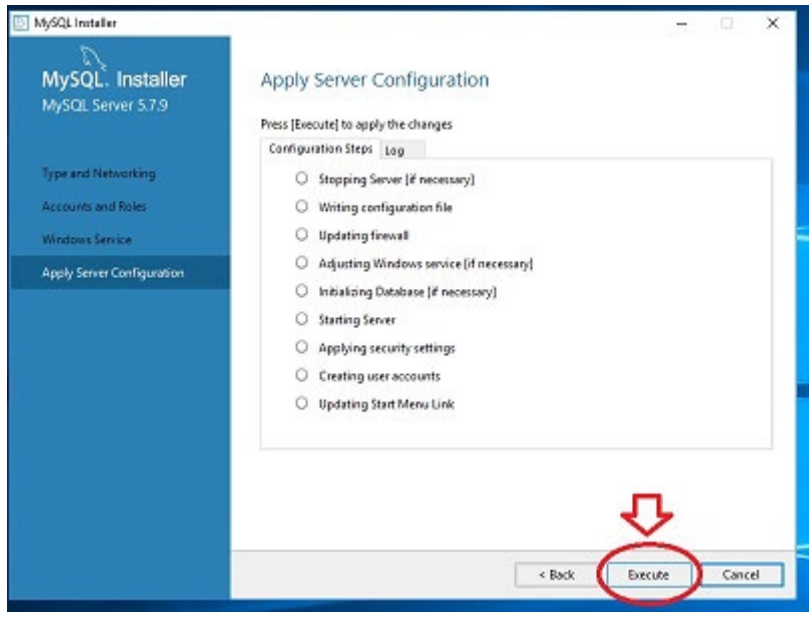

MySQL Installer
MySQL. Installer
Adding Community
License Agreement
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 5.7.9
Samples and Examples 5.7.9
Ready to Configure
Next >
Cancel

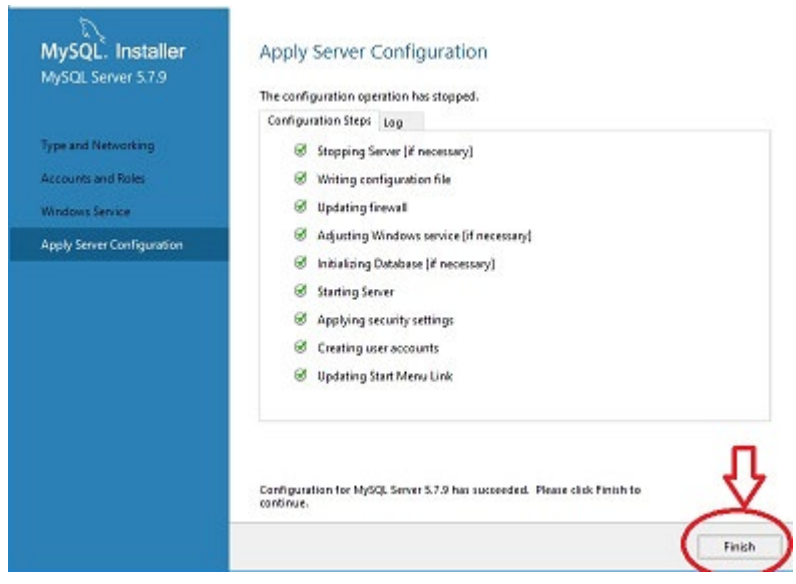


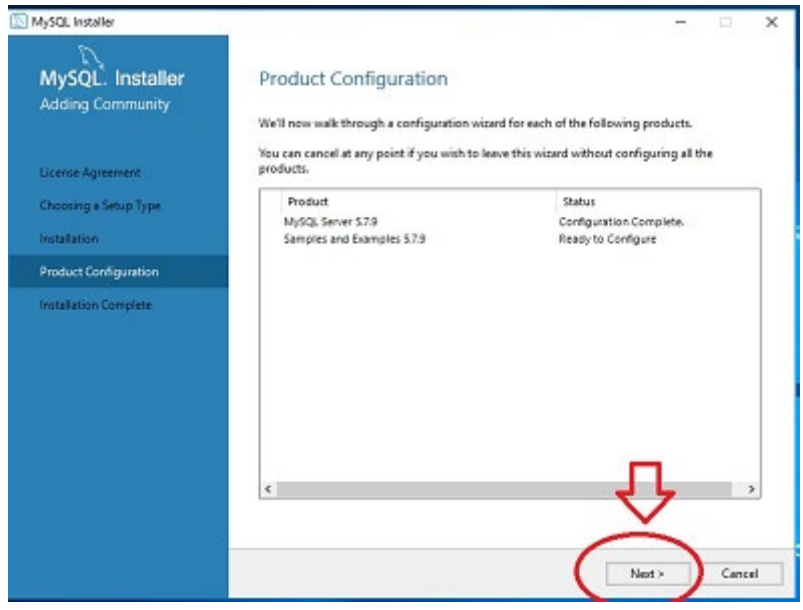
In Mysql Root Password type EPELSA in capital letters.

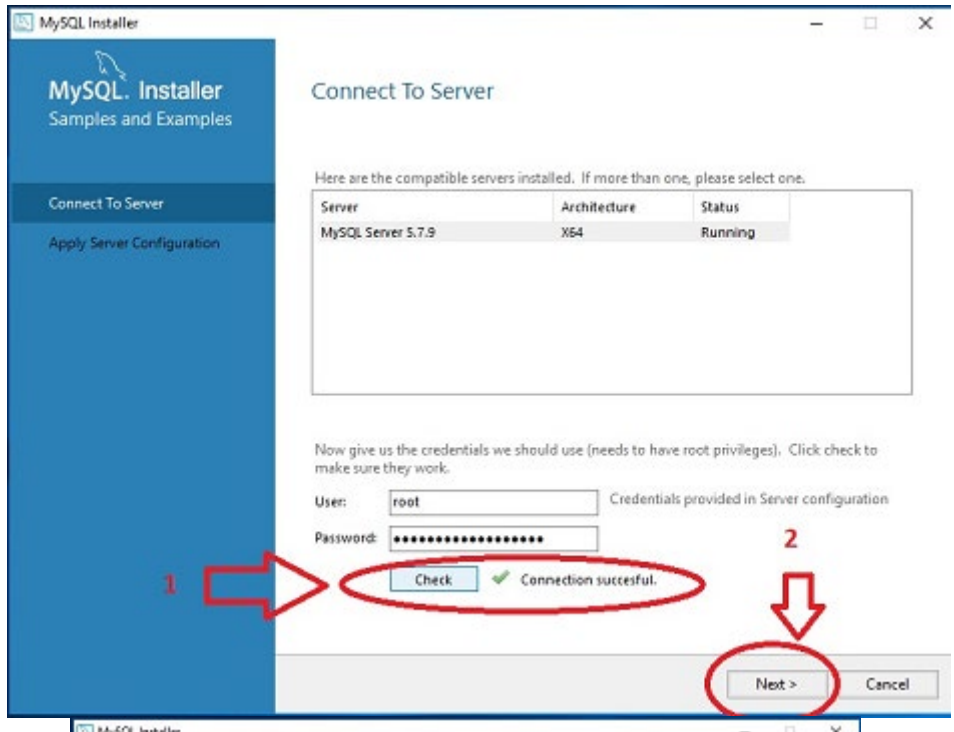


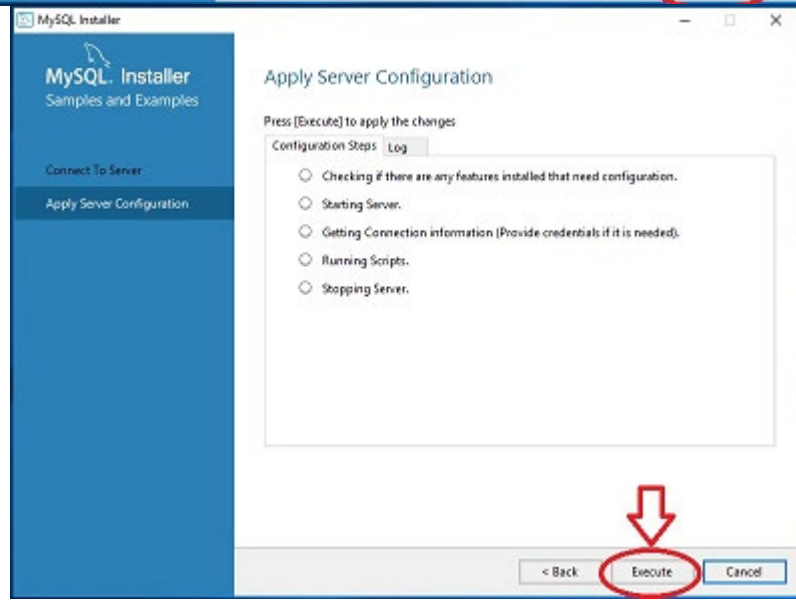

MySQL Installer
MySQL. Installer
MySQL Server 5.7.9
Type and Networking
Accounts and Roles
Windows Service
Apply Server Configuration
Windows Service
Configure MySQL Server as a Windows Service
Windows Service Details
Please specify a Windows Service name to be used for this MySQL Server instance. A unique name is required for each instance.
Windows Service Name: MySQL57
Start the MySQL Server at System Startup
Run Windows Service as ...
The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to pick one of the options below.
Standard System Account
Recommended for most scenarios.
Custom User
An existing user account can be selected for advanced scenarios.
< Back
Next >
Cancel

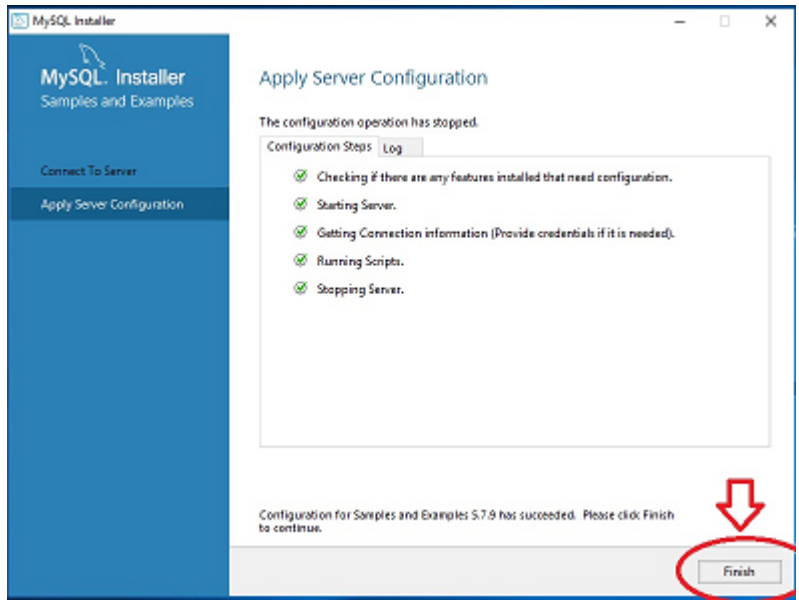

MySQL Installer
MySQL. Installer
MySQL Server 5.7.9
Type and Networking
Accounts and Roles
Windows Service
Apply Server Configuration
Apply Server Configuration
Press [Execute] to apply the changes
Configuration Steps
Log
Stopping Server (if necessary)
Writing configuration file
Updating firewall
Adjusting Windows service (if necessary)
Initializing Database (if necessary)
Starting Server
Applying security settings
Creating user accounts
Updating Start Menu Link
< Back
Execute
Cancel

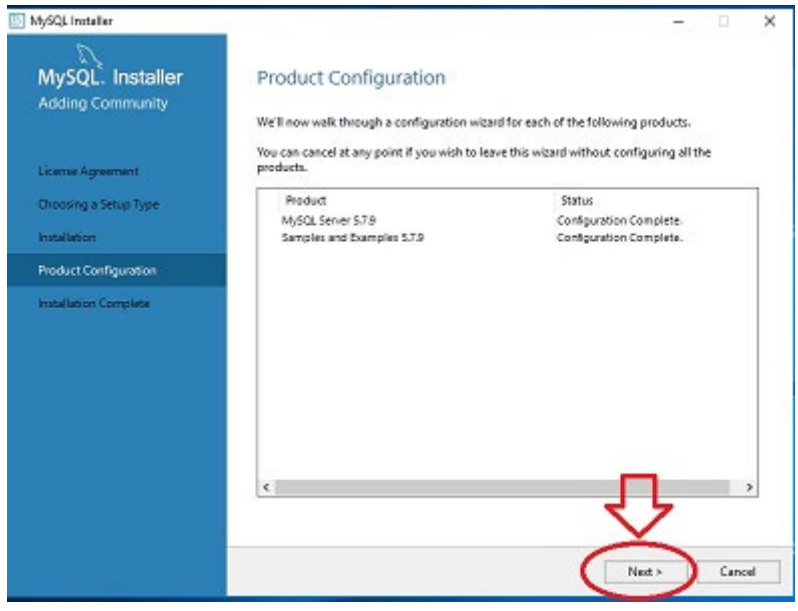

MySQL. Installer
MySQL Server 5.7.9
Type and Networking
Accounts and Roles
Windows Service
Apply Server Configuration
Apply Server Configuration
The configuration operation has stopped.
Configuration Steps
Log
Stopping Server (if necessary)
Writing configuration file
Updating firewall
Adjusting Windows service (if necessary)
Initializing Database (if necessary)
Starting Server
Applying security settings
Creating user accounts
Updating Start Menu Link
Configuration for MySQL Server 5.7.9 has succeeded. Please click Finish to continue.
Finish

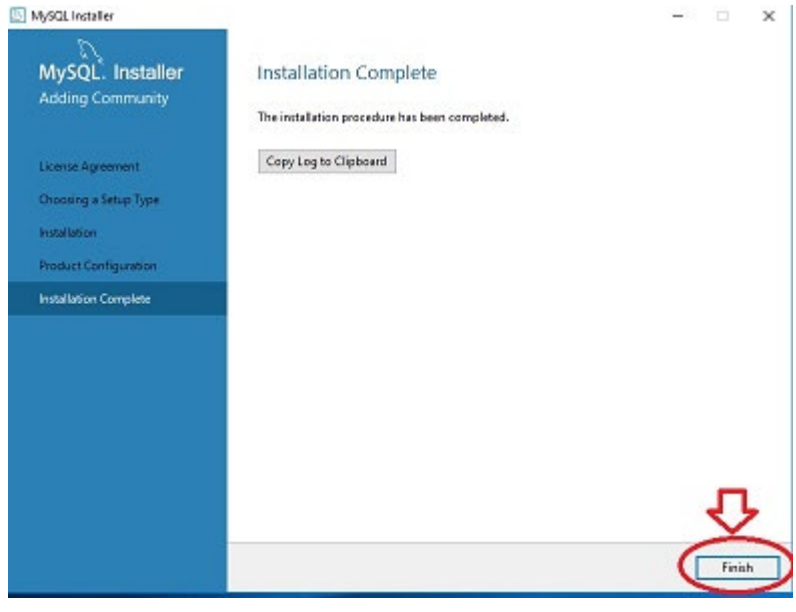

MySQL Installer
MySQL. Installer
Adding Community
License Agreement
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 5.7.9
Configuration Complete.
Samples and Examples 5.7.9
Ready to Configure
Next >
Cancel


MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Server Configuration
Connect To Server
Here are the compatible servers installed. If more than one, please select one.
Server
Architecture
Status
MySQL Server 5.7.9
X64
Running
Now give us the credentials we should use (needs to have root privileges). Click check to make sure they work.
User:
root
Credentials provided in Server configuration
Password:
Check
Connection succesful.
1
2
Next >
Cancel


MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Server Configuration
Apply Server Configuration
Press [Execute] to apply the changes
Configuration Steps
Log
Checking if there are any features installed that need configuration.
Starting Server.
Getting Connection information (Provide credentials if it is needed).
Running Scripts.
Stopping Server.
< Back
Execute
Cancel


MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Server Configuration
Apply Server Configuration
The configuration operation has stopped.
Configuration Steps
Log
Checking if there are any features installed that need configuration.
Starting Server.
Getting Connection information (Provide credentials if it is needed).
Running Scripts.
Stopping Server.
Configuration for Samples and Examples 5.7.9 has succeeded. Please click Finish to continue.
Finish


MySQL Installer
MySQL. Installer
Adding Community
License Agreement
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 5.7.9
Configuration Complete.
Samples and Examples 5.7.9
Configuration Complete.
Next >
Cancel


MySQL Installer
MySQL. Installer
Adding Community
License Agreement
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Installation Complete
The installation procedure has been completed.
Copy Log to Clipboard
Finish

2. INSTALAR BPWIN_PLUS

Go to the InstallBpWinPlus_V X.X folder.
Run Setup.exe
Follow the installation steps.

3. NEURAL LABS DRIVER INSTALLATION

(Only if number plates are to be read automatically by cameras)

Install Neural Labs Drivers if you are going to use number plate reading cameras.
If yes, go to the DriversNeuralLabs_Vpar folder.
and run VPAR_WIN_7.22.0.0.exe

We continue with the installation:

4. CREATION OF STRUCTURE

Once the packages are installed, run BpwinPlus (There is a shortcut on the desktop).
It will detect that there is no database and will ask if you want to create it for the first time.
We say yes and the database structure will be created.

Once the structure is created, it will ask for Username and Password.

User= EPELSA
Password= 762

***DEMO* Mode**

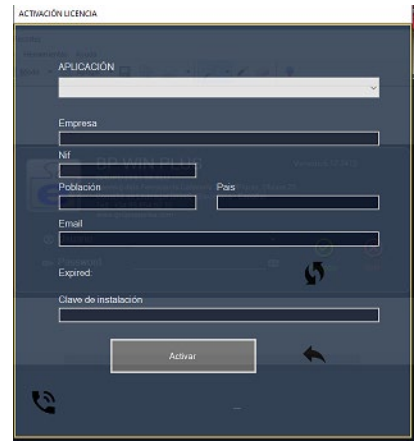
From this point we can activate the DEMO mode.

(From Side Menu / **Help** / **Demo Mode**) to test functionalities or go to the License activation form.
If we activate the DEMO mode it allows us to create Nodes and connect scales, but it randomly varies the displayed scale weight allowing us to test functionalities, but modifying the real weight values.

5. LICENCE ACTIVATION

From the Side Menu go to **Help** / **Activate License**
A form will appear to enter the data and enter the activation key.

Internet connection required during activation.
We fill in the fields:



Company, Nif ,City, Country, Email

Enter the licence number provided for activation in the **Installation key** box.
Click on the Activate button.

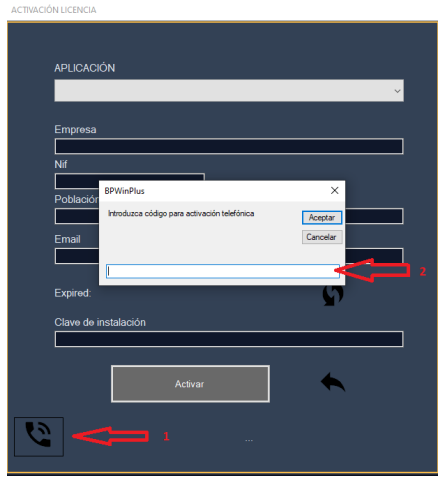
We wait a few seconds and it will show us:
License Activated

Then restart programme

Closes the form and returns us to the main form.

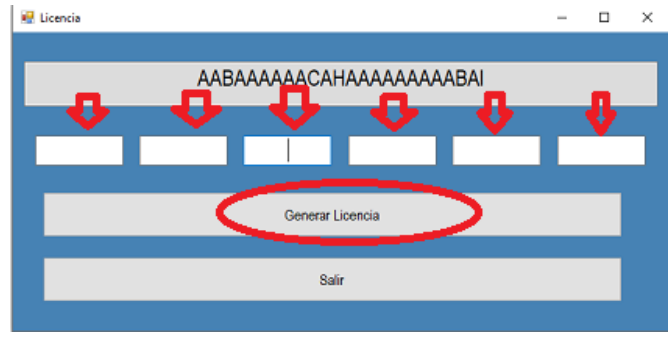
If you do not have internet access, you must make a phone call to obtain a temporary code to display a telephone activation form and a telephone licence (valid during the day).

When we have this code we click on the button and enter the code



The telephone activation form will appear, enter the telephone licence number supplied by the manufacturer in the boxes and click the button.

Generate Licence.



6. LICENCE TYPES

- **Unlicensed**.(Administration) (0)
  - Allows connection to a database for data entry or visualisation of weighing operations.

- **Slave** (1)
  - This licence allows us to connect to another workstation with a basic licence or higher. You can carry out weighing operations from this workstation as a slave.
- **Basic** (2)
  - Allows connection to multiple scales.
  - Access to data entry.
  - Automatic weighing or operator weighing from the computer screen.
  - Weighing history records.
  - Listings.
- **Visiocam (Panoramic)** (3)
  - Allows all the functionalities of the basic licence.
  - Adds connection with up to two cameras per scale for the general view of the scale or to take photos of the loading of the trucks. It also allows to automate the photography when weighing.
- **Professional** (4)
  - Allows all the functionalities of the Basic license + Visiocam.
  - Adds automatic number plate reading by means of number plate recognition with camera.
  - Includes the License for number plate reading.
- **Professional + Access Control** (5)
  - Allows all the functionalities of the Professional licence.
  - Adds vehicle entry and exit control management to the company by reading number plates or cards. Allows the connection of Eth plates for opening doors, traffic lights, etc...

7. CREATION OF NODES

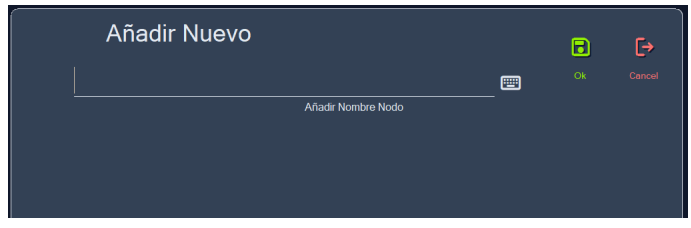
We call node to the configuration of all the equipment associated to a scale, the program allows multiple nodes, the allowed configurations are:

- Configuration of communications with the scale display.
- Configuration of the printer that will issue the tickets, making it possible to differentiate between the printouts made in automatic mode and those made manually by the operator from the work form.
- Configuration of the cameras for panoramic vision and/or photo capture (depending on the type of licence).
- Camera configuration for number plate reading (depending on the type of licence).

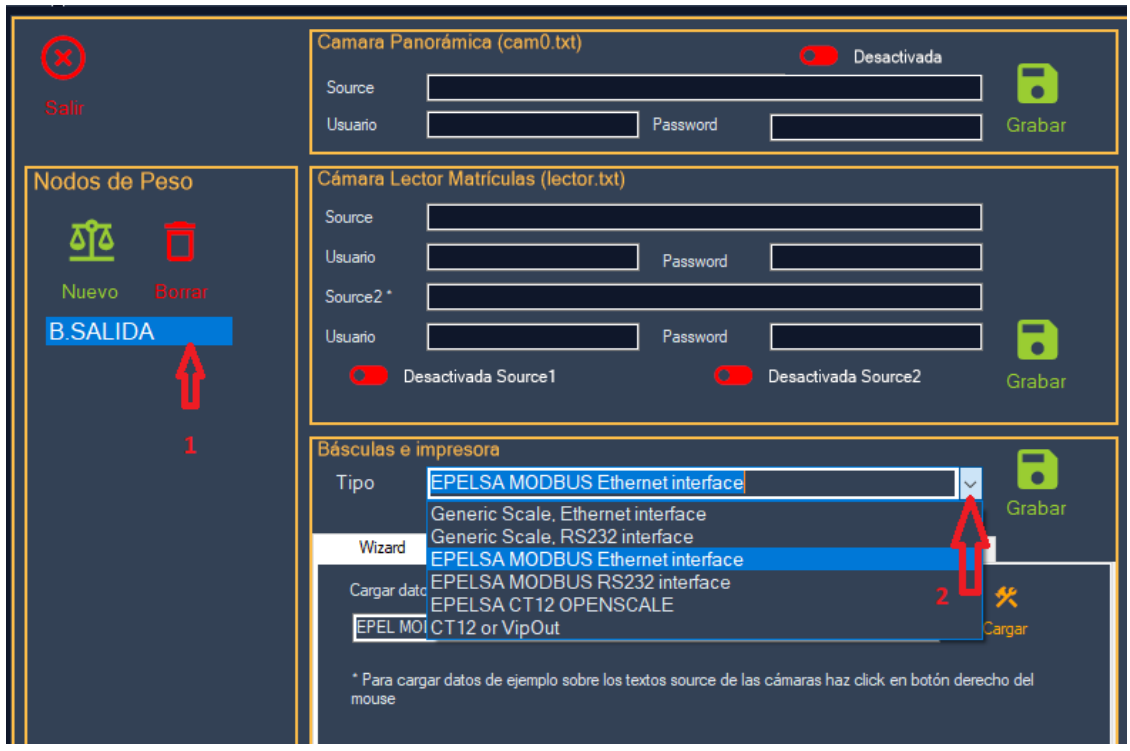
Let's create the first node:

- Click on the sidebar menu **Configuration /** **Scale**
- We configure the name identifier of the Node or Scale..

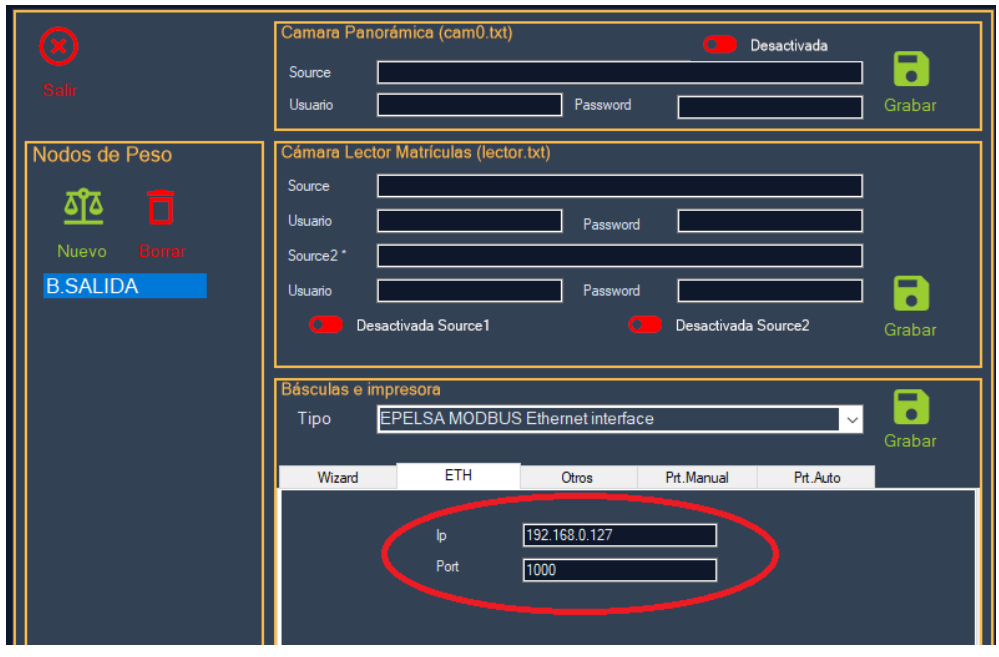
Click on the button **New** and write the name of the node and save



The name of the node will appear on the left side of the form. Select it by clicking on it and configure the node's data in the panel on the right.
Next, we choose the type of communication of the scale display associated with the node.
In this example, we will connect an ENI device via ModBus Ethernet.



In the Wizard tab, an UPLOAD button will appear. , If we click on it, it will load example parameters that we can then replace with the correct values.
In the Ethernet tab we will place the Ip and Port of the weight indicator.



In the Other tab :

Communication timeout (Default value 500 ms)
Sleep (Default value 250 ms)

Approved memory.
Activate if working with approved memory

Product waiting.
In the case of an ENI it indicates whether the indicator will ask for the product code on the screen.

Maximum Weight (kg) Defines the maximum weight of the scale.

Weight Min (Kg) Defines the minimum weight that we consider zero.

Requires external selection,
Activate when working with devices that require data selection before weighing, such as touchscreen poles or Android devices.

Relay Board and Relay
Allows you to select the relay board with which this scale will work and the relay that will activate the traffic light or barrier.

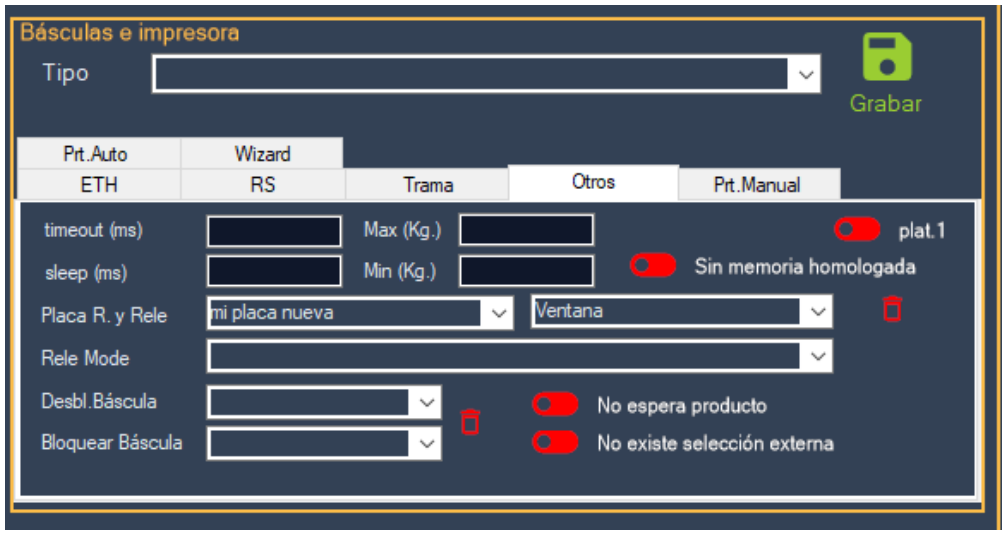
Rele Mode
ON min.W **OFF** recording W..
It is activated when the minimum weight is exceeded and deactivated when the weight is registered.

ON recording W**.**
It is activated when the weight is registered.

Unlock Scale
Allows equipment to be unlocked when working with loops.

Lock Scale
Allows locking of equipment when working with loops.

Plat 1.
Allows you to select which platform (of the two internal Orion or ENI viewer platforms) you are working with. It works only with the OD BUS protocol and is associated with the weight platform we are working with..

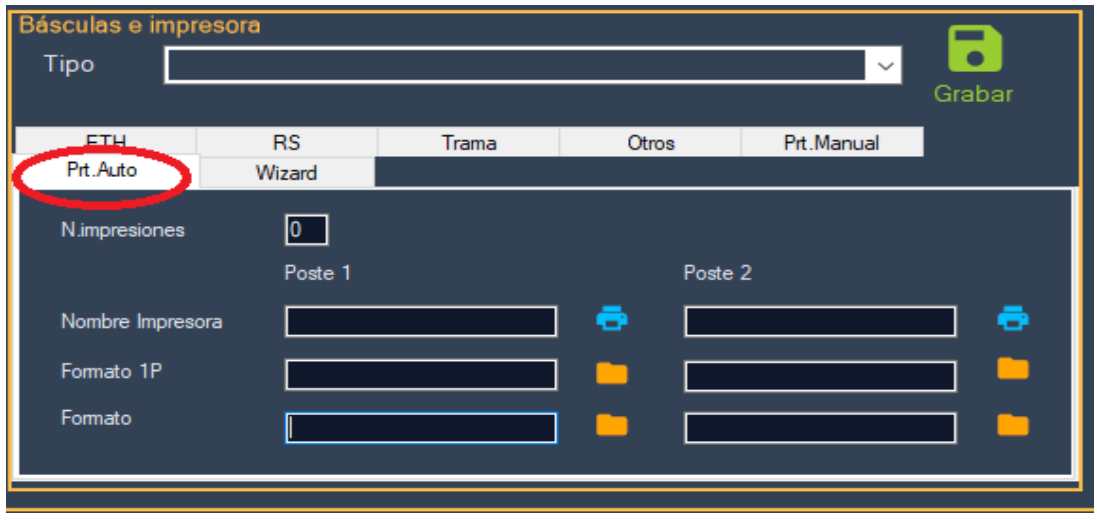


In the tab Prn.Auto:

This tab contains the print settings in automatic mode, allowing to differentiate by post in case of 2 posts.

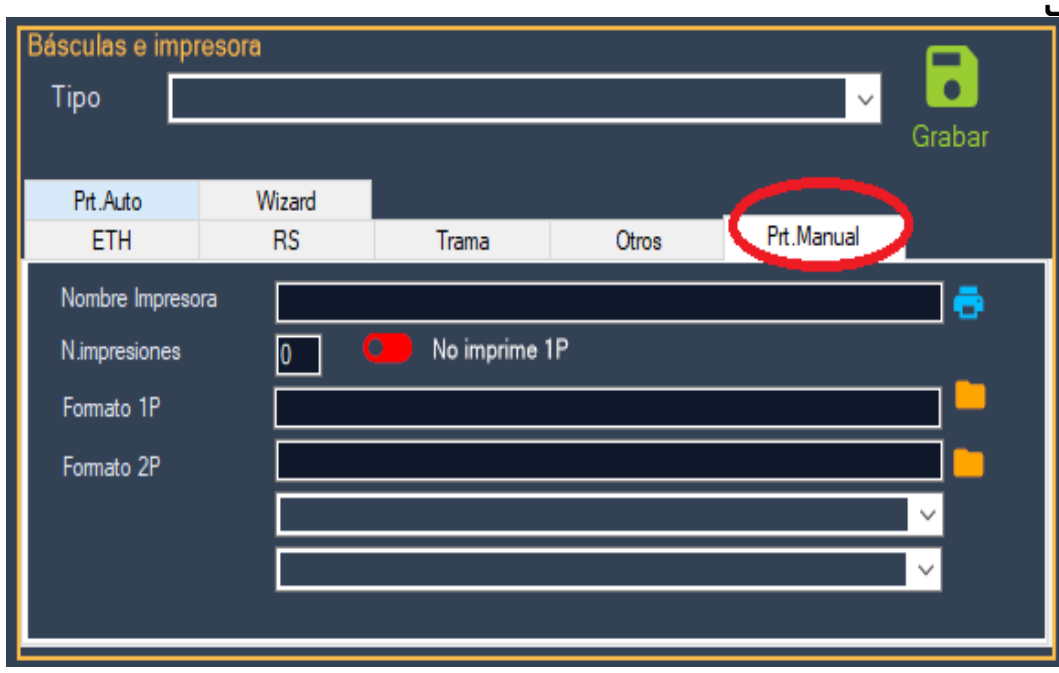
- **Printer Name:** Type "ENI" if the printout is to be made via the ENI viewer printer. Otherwise, select the desired printer from the drop-down menu.
- **-No. Impressions**: Indicate the number of copies to be printed (example: 1 equals one ticket).

- **Format**: In the template_print folder, select a template for ENI if printing will be done with the ENI printer (e.g. ENI_Template_1_SPANISH_1.txt). Otherwise, choose a generic template (e.g. GenericTicketTemplate_1_SPANISH.txt).



Format 1P: Here we choose the ticket format of the first weighing, if used.

Manual Prt. tab:
Configuration of the printout when the operator performs the weighing from the PC form.



In case you want the ticket to be printed through the ENI viewer:

- Printer Name: Write "ENI" if the printout will be made using the ENI viewer printer.
- No. Prints: Indicate the number of copies to be printed (1 equals one ticket).
- No Print 1P: Select whether or not to print the ticket of the first weighing.
- Format: Select an ENI template in Format.
- Launch by the established printer.
- Print directly.

In case you want the ticket to be printed by one of the printers of the Windows operating system:

- **Printer Name:** Choose the printer using the search button.
- **No. Prints:** Indicate the number of copies to print (1 = one ticket).
- **Format 1P:** If the ticket is printed on the first weighing, choose a format.
- **Format 2P:** Select a template (e.g. GenericTicketTemplate_1_SPANISH.txt).

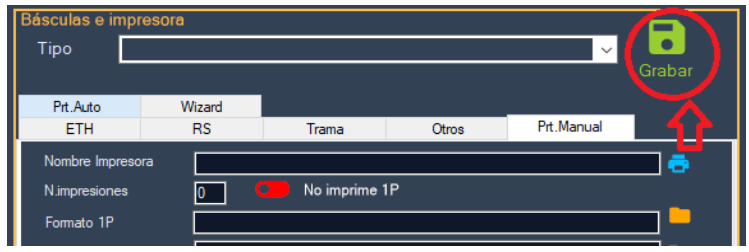
Select an option:

- Launch by the established printer.
- Allow to choose the printer before each print.

Select an option:

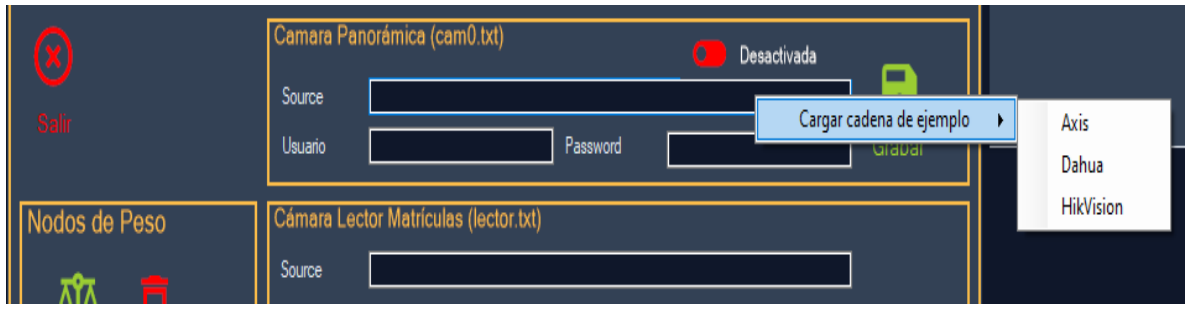
- Print directly.
- Allow to view the pre-print before printing.

Save the data:
To save the scale and printer data, press :

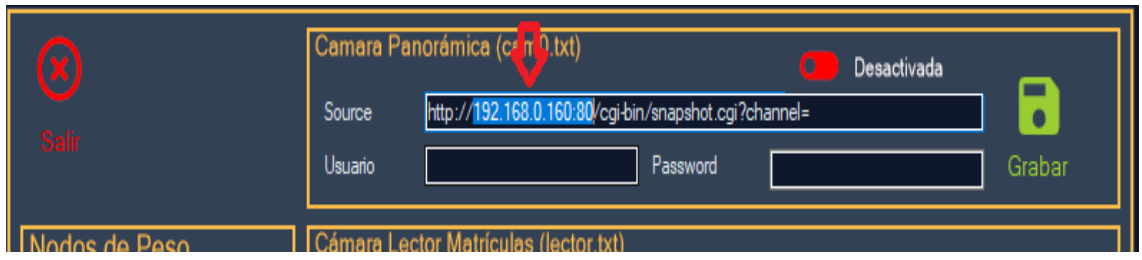


Visiocam camera (if we have a Professional licence or higher)

Right-click on the Source field to load an example configuration string of the chosen camera type.



Replace the ip of the example string with the real ip of our camera, enter the User and Password of the camera and click on the Save button.

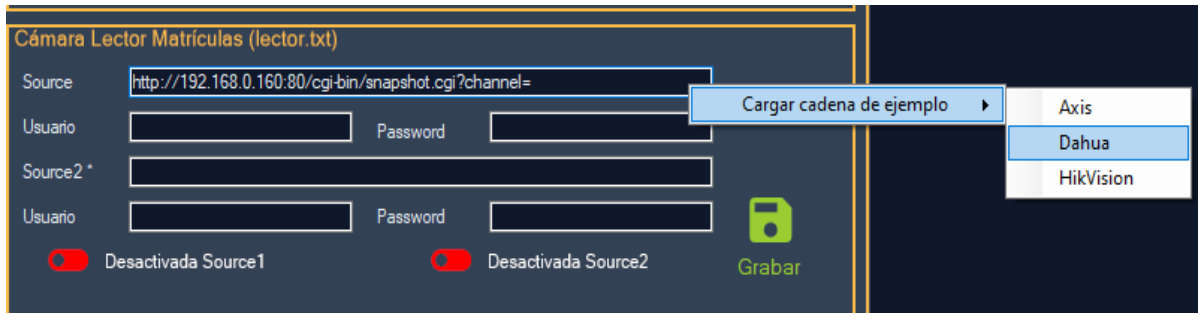


If we use any other camera, we can always configure it if we know its datasource (consult the manufacturer).

Deactivate/Activate. Enables or disables the use of this camera.

License Plate Camera (if we have a Professional licence or higher)

It is the same procedure as in the Visiocam section.



Replace the ip of the example string with the real ip of our camera, enter User and Paswword of the camera and click on the Save button.

Disable/Enable Source 1. Enables or disables the use of camera 1

Disable/Enable Source 2. Enables or disables the use of the camera 2.

8. GENERAL CONFIGURATION

We will access the configuration form from the main screen in the **Menú lateral** / **Configuration** .

This form allows us to configure some aspects of the programme's operation. Depending on what is programmed in the different fields, the programme acts in one way or another, so special emphasis must be placed on checking that the programming coincides with how we want the programme to react to different events.

The button accepts all changes made on any sheet and closes the form. The changes are saved in the "settings.txt" file and are permanent.

The button cancels all changes made to any sheet and closes the form.

The configuration has been separated depending on its nature into different TAB sheets, each TAB sheet is described in detail below.

Campos Datos	General	Impresora	Acceso	Idiomas	Auto	Style	Modo Guiado	Auto File Export

8.1 TAB DATA FIELDS

This section refers to the data fields associated with the weighing and the weigh-in-transit item, as well as to the free write fields in assisted weighing.

Data fields

Campo	Visible	Editable desde perfil	Inicial	V1P
Usuario				☐
Empresa	☐	Perfil edición selec.	○	☐
T.pesada	☐	Perfil edición selec.	○	☐
Cli/Prov	☑	Perfil edición selec.	○	☐
Producto	☑	Perfil edición selec.	●	☐
Transportista	☐	Perfil edición selec.	○	☐
Conductor	☐	Perfil edición selec.	○	☐
Origen	☐	Perfil edición selec.	○	☐
Destino	☐	Perfil edición selec.	○	☐
Libre	☐	Perfil edición selec.	○	☐
Matriculas		Perfil edición selec.	○	☐
Remolques	☐	Perfil edición selec.	○	☐
Contenedores	☐	Perfil edición selec.	○	☐
Filtro		Solo programador		

En pesaje asistido

☐ Requerir cálculo de densidad

Nombre del campo libre	Obligatorio	Visible
Hoja de Seguimiento	☑	☑
Mi campo numero 2	☐	☑
Este campo es invisible	☐	☐
Notas 3	☐	☑
No visible ni usado	☐	☐

☐ Establecer inserción cambiando el valor de Id

Data fields

Field : Name of the data field. Refers to the data fields that you can or want to edit from the programme.

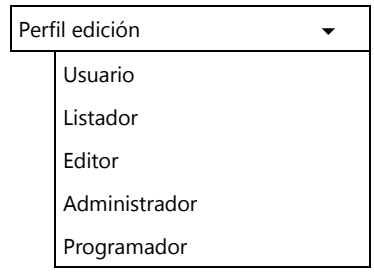
Visible:

☑ The field will be visible both in weighing for selection and in data editing in case the user has permission to edit.

☐ The field will not be visible in weighing or editing regardless of the selected profile.

NOTE: The fact that a data field is not visible does not mean that it is not saved with its default value in the weighing history database.

Editable from profile: The field will be visible in Data editing if you have at least the user profile selected.



Initial: At its value ● when opening the heavy form, this field appears as the initial selected field, in its value ○ auto field selection is not performed when loading the

weighing form. Only one initial field can be selected ● logically, there cannot be two firsts.

V1P:

☑ The field is added in HeavyItem (code and name). This field is visible from the main screen

☐ The field with this value does not appear in HeavyItem.

NOTE : It is recommended to use only the essential fields or none at all in order to have as many trucks as possible visible on the main screen.

Density calculation required:

☑ Density calculation is performed in the weighing form. FUTURE VERSIONS

☐ No density calculation is performed. Default value. FUTURE VERSIONS

NOTE : No value is applicable, future versions will calculate the density according to the container's m3.

Free fields

Free fields are defined as freely writable fields in aided weighing. These are fields that are filled in during weighing, e.g. tracking sheet, etc. They are treated in the same way as the Notes field.

Free Field Name: In these text boxes you set the text that will appear in the weighing form above the free field box. Literal0..4 for printing in ticket format.

Obligatory:

☑ It does not allow weighing unless the box corresponding to the free field has a text value.

☐ The value of the text box will not be taken into account, even if it is empty. Default value.

Visible

☑ Show the text box and the descriptive in the weighing form..

☐ The text box and the descriptive are hidden in the form. Their space is divided between the boxes that are visible.

NOTE : Mandatory and visible envelope, the mandatory fields must be visible, otherwise it is not possible to weigh unassisted due to the impossibility to fill in a non-visible field..

☐ Set the insertion by changing the value of id

In its value ☑ in the import of the weighing history file ignores the record id and inserts it as a new record.

In its value ☐ the import of the weighing history file overwrites the id of the record if it already exists or creates a new one if it does not exist..

Important note. Weighing record import operations are not reversible, you must be especially careful when performing them and check that the import configuration parameters are as desired.
It is recommended to make a backup before performing any import.

THE RESPONSIBILITY FOR THE LOSS OF DATA IN THIS OPERATION LIES SOLELY WITH THE USER WHO PERFORMS IT.

8.2 TAB GENERAL

This section refers to the behaviour of the programme's mode of operation in specific situations.

☐ All companies share the same ticket number.

In its value ☑ the ticket number assigned to each weighing is common, regardless of the company selected at the time of weighing. The programme automatically assigns the next ticket number from its counter section and puts the counter of all the companies in common.
In its value ☐ each company has its own counter and each weighing is assigned the next available number. In this case it may happen that we have weighings from different companies with the same ticket number.

☐ Allow unassisted weighing 1P

In its value ☑ the first automatic weighing (camera, RFID card, scanner or pullfile) is allowed if the number plate is registered in the database.
At its value ☐ it is not allowed to perform the first weighing automatically.

☐ Allow unassisted weighing 2P

In its value ☑ second weighing is allowed automatically (camera, RFID card, scanner or pullfile) if the number plate is registered in the recorded number plates or if the first weighing has already been carried out.
In its value ☐ the second weighing is not allowed to be performed automatically.

☐ Launching unauthorised number plates in the UI.

BPWin+ does not allow unauthorised licence plates to be weighed unassisted. For a licence plate to be authorised, it must be registered in the system. This field allows to display unauthorised number plates read by cameras or pullfile in the user interface.
In its value ☑ the unauthorised read number plate is released as if it had been keyed in for weighing through user interaction. The launching of this number plate only occurs on the PC with MASTER licence or higher, not on the slaves.
In its value ☐ no action is taken, so the licence plate will not be weighed automatically and is output **WITHOUT WEIGHING.**

☐ date1 is always Tara

In its value ☑ date1 of the weighing history record always corresponds to the date on which the lowest weight value was weighed, date2 of the record always corresponds to the date of the highest weight value recorded.
In its value ☐ records date1 at its lowest time value and date2 at its highest time value.

Tare is the lowest value/Tare is always 1P. Allows us to choose whether we want the tare to always be the lowest value or if Tare is always 1P.

Type of weighing Customer/Supplier Normal / Type of weighing Customer/Supplier always visible.
If we select Normal weighing type, the type will be automatically selected from what is programmed in the Customer/Vendor tab.
If we select Type of weighing Client/Prov. a combo will appear always visible to be able to change if we are interested in the type Client/Prov. when carrying out the weighing.

Chat

☑ Habilitar Chat	Port	8050
Ip Servidor	127.0.0.1	

☑ Enable the chat service. We will enable this service only if we have slaves in the same network. The Android BpWinTerminal are considered slaves for all purposes.
The programmed port must be free of firewalls or with permissions for communication between devices.
In server ip we will put the ip of the Master PC.
In this type of installation where there is a Master and n Slaves, we only need a fixed IP in the MASTER.
☐ Enables the chat service in its negative value if no Slave or Android BPWinTerminal equipment is available.

Panoramic Camera

Refresh time	500
☑ Take photo automatically	
Photo Route	C:\fotos

Refresh time sets the time in milliseconds that snapshots are taken in the camera defined as panoramic.
In the ☑ value of snapshot automatically saves this snapshot in the destination Photo Path folder as license_ntkt.jpeg.

Camera License Plate Reader

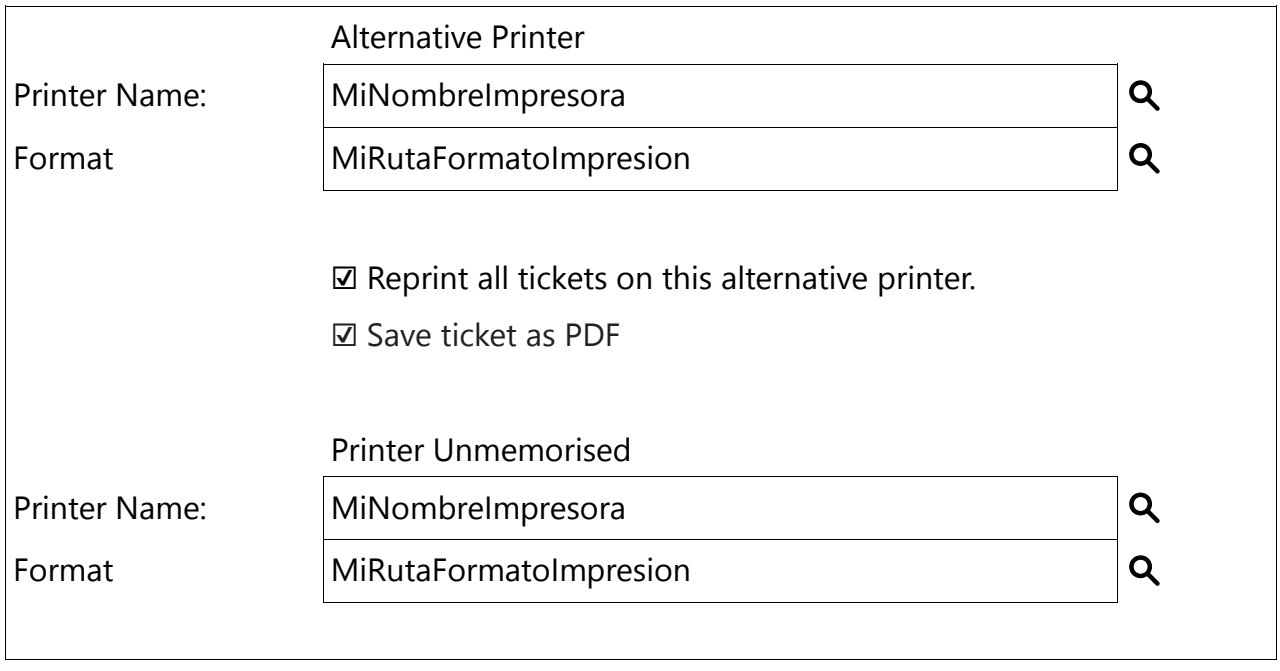
Percentage of valid reading	85
Minimum character height	20

In order for a camera-read number plate to be considered valid, the reading percentage must be greater than the set value and the height of the character read must be greater than the set value. If this does not occur, the number plate reading is rejected.

☐ **Activate logs**
Activate the test function at its value ☑ where it writes us text files with the date format of everything that passes through the program routines.
This is especially useful for locating faults or processes that have not executed correctly.

☐ **Activate VPAR logs (Technical Service)**
Activate the number plate recognition test function in its ☑ value where it will create an analysis file for character heights and percentages. Once the appropriate percentages have been programmed, this option must be set back to its value ☐ for the correct performance of the program.

8.3 ENTERPRISE TAB



In this Tab we configure the alternative (weighing history) printer.). Pulsing over no dialogue box opens so that we can choose the name of the printer from those installed on the system. We can also search for a ticket format for the alternative printer. .

☐ **Reprint all tkt by this alternative printer.**
In its ☑ state, it automatically reprints the scale tickets in the format and on the selected alternative printer.

NOTE : If reprinting is chosen it will be printed automatically without being displayed on the screen, as this option is intended for unattended operation.

☐ Save tkt as PDF
In its state ☑ creates a PDF of the scale tickets in the format and for the chosen alternative printer automatically. They are saved in the folder TiquetPDF.

NOTE : The file name is the ticket number.
In the same way we can configure the format and the printer of the weighing WITHOUT MEMORISING.

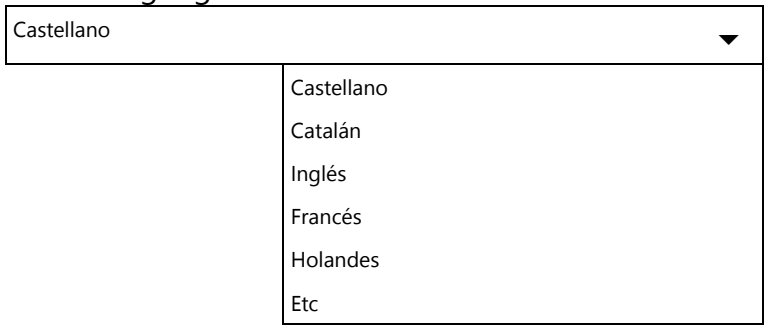
8.4 TAB Access

☐ Activate access control
Activates the access control function at its ☑ value. This check only serves to temporarily deactivate the access control, since, even if it is set to a positive value, it does not work if we do not have a licence.

8.5 TAB Languages

This Tab allows us to change the language of the programme to the one we select.

Select language



If you need any additional language, please contact Epelsa Group.

8.6 TAB Auto

This tab allows the configuration of different aspects that have process automation in common.

Auto Emailing			
email	micorreo@gmail.com		
Password	asdfasdf1234		
Host	mihost		
Port	8054	☐ SSL	
Send an email to	☐ Customer	☐ Carrier	☐ Driver

If we configure our email data correctly, when we weigh, the program automatically sends an email to the fields that we have marked with the value ☑, this email is sent attaching a copy of the ticket.
Note: For the email to be sent, it is necessary that the "email" field of the corresponding customer, transporter or driver cards is filled in with a valid email address. If the "email" field is empty, the email will not be sent.

Free fields		
Set Name		🖬
Save free field	▾	🗑
Positions to be saved	Product code ▾	Product Name ▾
Compare against	Product code in history. ▾	

Set the desired name for the free field and press 🖬 to change in the database.
The field "Save free field" must be empty, if it is not, the fields destined to "free field" in the weighing history will be filled with the values of the weighing that we have selected in "positions to save". In the weighing history form there is a "compare" button, which allows you to filter the fields that have been modified in comparison with the "Compare against" field. (Security functionality requested by a client).

☐ Convert read hexadecimal values to decimal values.
At its value ☑ all cards read by the program will be converted to decimal value. In addition, a prefix "00" is always added to cards external to ENI systems.

FAREWELL MESSAGE

FAREWELL MESSAGE

Message dismissed | EXIT

In ENI systems, a message is sent to the indicator when the weighing is saved. The output message is set in this field. If the value is left blank, the program sends the DESTINATION text that is selected.

IN OUT FILES

☐ Self-reading. IN files
☐ Create Auto. OUT1P files
☐ Create Auto. OUT2P files

☐ Allow unmemorised number plates

*See operation in document IO FILES.

☐ Auto reading. IN files

Enables/Disables the option to read the IN file.

☐ Create Auto. OUT1P files

Enables/Disables the write option of the OUT1P file.

☐ Create Auto. OUT2P files

Enables/Disables the write option of the OUT2P file.

☐ Enable non-stored number plates

In its value ☑, automatic weighing is allowed (camera, pullfile, infile) even if the number plate is not in stored number plates. This option overrides the launching of non-stored number plates to the UI (User Interface), as no user intervention is required for weighing. The default data for automatic weighing will be obtained from the first record of pre-recorded number plates. It is important to create the first record with the default data that we want to be recorded.
In its value ☐ the program will manage the unrecorded number plate in its usual way.

Automatic weight range	1000
Weight cycles Automatic	7
Auto Reset Cycles	0

- Auto set License plate not memorised

- Prioritise number plate reading

Automatically selected company

In BPWin+ assisted operation (via cameras or pullfile), once the number plate has been detected, the programme proceeds to weighing provided the following conditions are met:
- The scale weight value must not fluctuate more than the Automatic Weight Range for the number of cycles defined in Automatic Weight Cycles.

- If this condition is not met, the countdown restarts until the weight stability criterion is reached.

By adjusting these values, we can prevent the weighing from taking place while vehicles are entering the scale, even if the number plate has been read correctly.

With the parameter **Auto reset cycles** other than zero, the scale will not wait for unloading before accepting number plates again. Instead, it will count the programmed cycles and return to the number plate insertion mode.

With the parameter **Auto set unstored number** plate activated, as soon as the weight exceeds the minimum weight, an unstored number plate called "AUTO PRINT" is automatically assigned and printed according to the usual configuration criteria. The printout will be made directly with the format and printer set to Printer without saving.

This print mode will also execute programmed actions, such as traffic light and barrier control, file generation, etc.

Important note: If this parameter is activated and n auto reset cycles are programmed, the program may enter a print loop if the set criteria are met.

With the parameter **Prioritise number plate reading** in negative value, the weighing is prioritised as soon as the number plate is detected.

In positive value, priority is given to the card reading.

This is useful when in the number plate record there is a number plate programmed which also has an associated card, allowing to define which of the two has priority.

Automatically selected company

Automatically selects the company to which this team belongs. It is especially useful when used in conjunction with the filter file **filter1p.txt.**

Example:

If the database is shared between different plants, this parameter will allow to display in the user interface only the trucks of a specific company..

Brief explanation of the filter1p.txt file

The filter1P file has to be located on the scale node. If the file exists, apply the filter.

Example lines from the filter1P file:
In this example line you can see that a filter per company will be applied.

*Select * from tprimerapesada where cmd LIKE "%M}7}0}1%"*

In another example line it can be seen that a filter per scale will be applied.

*Select * from tprimerapesada where idbascula=0*

8.7 TAB Style

It allows us to configure some parameters of the style of the forms..

Altura Báscula	80
Altura Báscula	10
Texto Tamaño Pequeño	10
Texto Tamaño Normal	12
Texto Tamaño Grande	16
	Night/Day Mode
	Touchscreen/Normal

Record

Grid Height . Allows us to set the spacing between data in the programme grids. Especially useful for fully tactile environments.

Scale Height is there for the adjustment of the program with the space reserved for scale in case it runs on a CT12 indicator.

Text Small Size., Allows us to modify the size of the small font.

Text Small Normal . Allows us to modify the size of the normal font.

Text Big Size . Allows us to modify the size of the large font.

 Allows to choose the colour of the user interface between light and dark.

 Activates or deactivates the touch keyboard functions.

 Saves the style settings.

8.8 TAB Guided Mode

	Normal/Guided mode
Guided Mode High Item	10
Ancho Item Guided Mode	10
Scale ▾	12
Fields and order	16
Table ▾	⊕
Selected data	
	Rubber selected item

Guided Mode When this mode is activated, the user interface will request the data sequentially, following the order previously configured in section

Fields and Order.

Item High Guided Mode	Allows us to configure the height of guided mode screen items.
Guided Mode Wide Item	Allows us to set the width of the guided mode screen items.
Associated scale	Scale to which the guided mode is associated
Table from which we want to be asked for data	⊕ Pressing selects the data
Selected Data	

8.9 TAB Auto Export File

AutoExpor

☐ AutoExport (only with professional licence)	Hora	23 : 00
Export Route		

Report .rp16

File name

Prefix	Format Date	Suffix	Extension	
entry	yyMMdd	suffix	.csv	

Separator field (Ascii Code)

59

Headers / No Headers

Save

If ☑ AutoExport is checked, a weight history file named dia.csv will be automatically generated in the path specified in Export Path, at the time set in the Time field.

This is especially useful in installations where automatic export of weights to other systems via a flat file is required for processing.

Report .rp16

Here we select the file containing the export structure. This structure is configured in the **Programmable lists** option, where the fields to be exported can be chosen and saved in a file that can then be selected from this section.

File name configuration

The file name is fully configurable using the following structure:

Prefix + Date format + Suffix + Extension

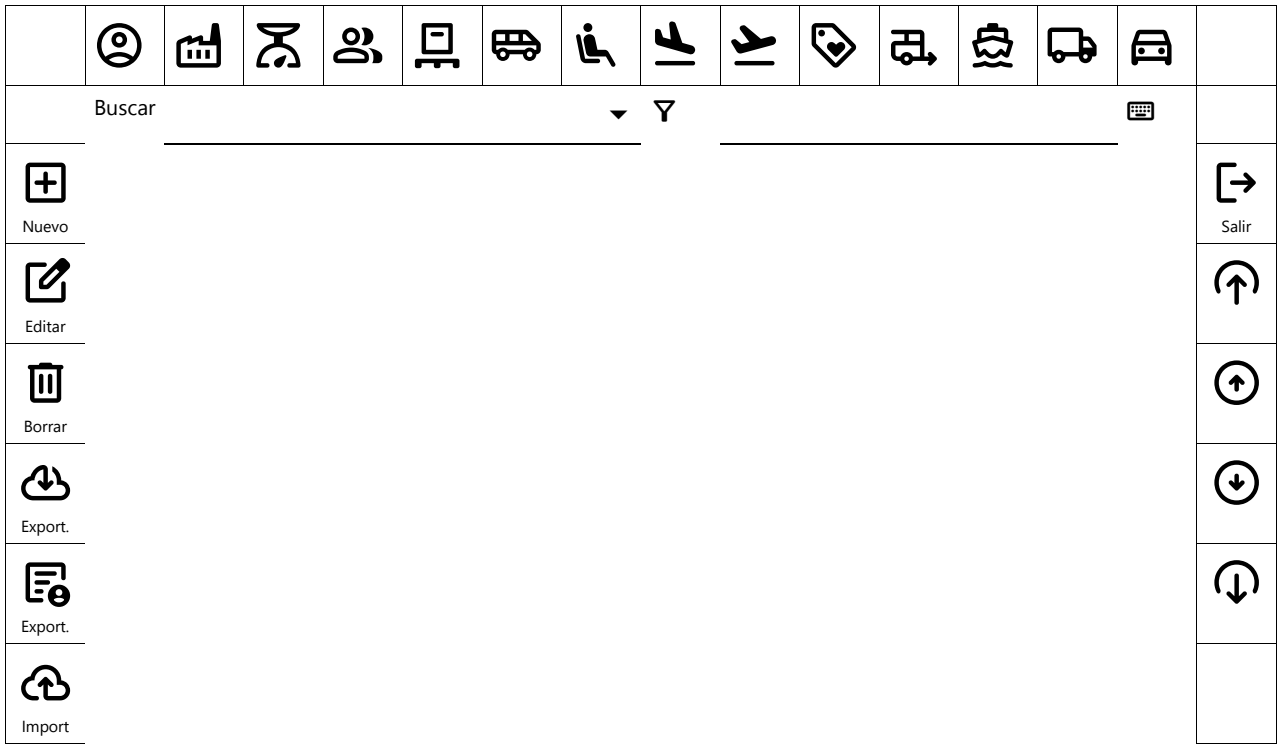
In the Separator (ASCII Code) field, the ASCII character that will act as a separator for the exported fields must be indicated.

Headers / No Headers

With this switch we select whether we want to print the headers in the export.

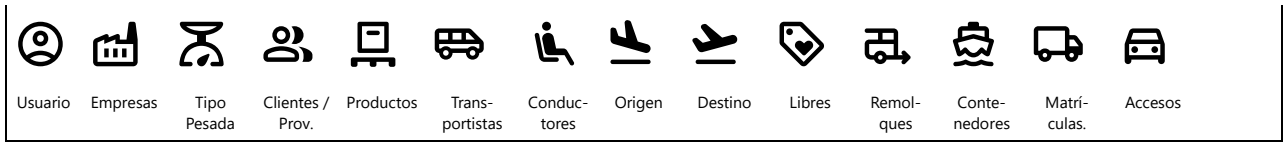
9. DATA EDITING

Edition



From Menu / Edit we access the different data tables.
Description of the common buttons in all the editing forms:

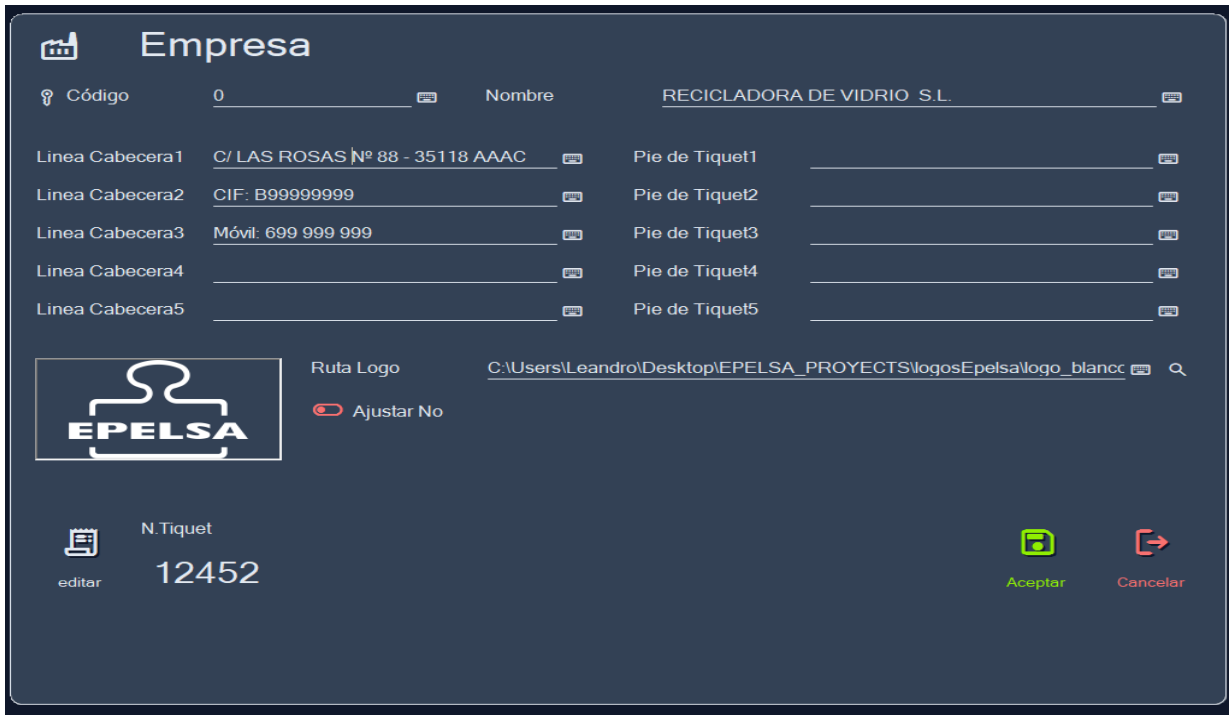
	Add new record
	Edit selected existing record
	Delete selected record
	Performs the search by typing according to the field and value of the selected filter.
	Performs an export in .csv format of the table we are in.
	Performs a custom export
	Performs an import to the table from a file in csv format.
	Exit the editing form



By clicking on the different icons in the bottom bar, you can access the different forms for data editing.

Companies

Access from the Side Menu Datos / Companies / Editar



Fill in Code and Company Name

In Header Lines 1 to 5 are the lines of text that will appear in the header of the ticket.

In Ticket Footer Lines 1 to 5 are the lines of text that will appear at the End of the ticket.

In the Logo Path, we will use the magnifying glass to search for the path where the company logo we want to include in the ticket is located (except for ENI equipment designs).

Set Logo Yes / No

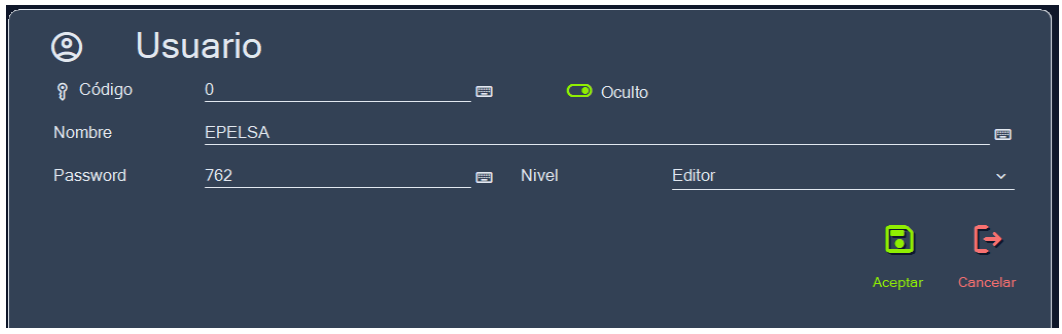
In the Counter tab we have the counter of this company.

Saves the changes made.

Exit the file.

Usuarios

From Side Menu Datos / Users / Editar



Enter Code and Username.
Enter password.
Choose Access Level for this User

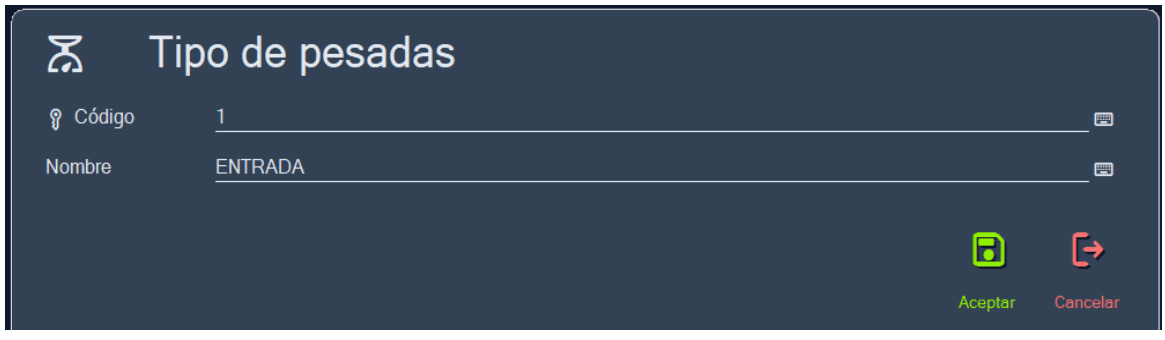
Hide User Yes / No

Saves the changes made.

Exit the file.

Types of Weighing

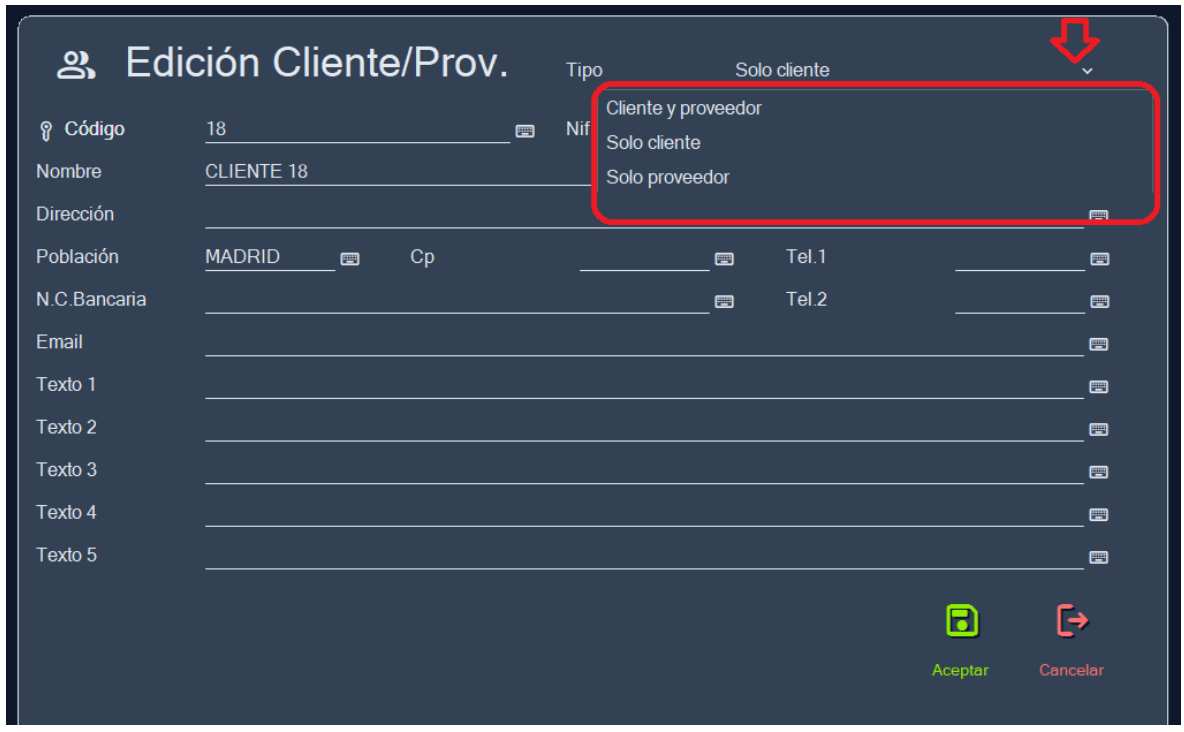
From Side Menu Data / Heavy Type / Edit



Enter Code and Heavy Type.

Suppliers / Customers

From Side Menu Data / Customer/Supplier / Editar



Enter data and choose whether you are a customer, supplier or both.

Products

From Side Menu Data / Product / Editar

Product data entry **Transporters**

From Side Menu Data / Transport / Edit

Entering carrier data

Drivers

From Side Menu Data / Drivers / Edit

Driver data entry

Origen

From Side Menu Data / Origen / Edit

Introduction of Origin data.

Destino

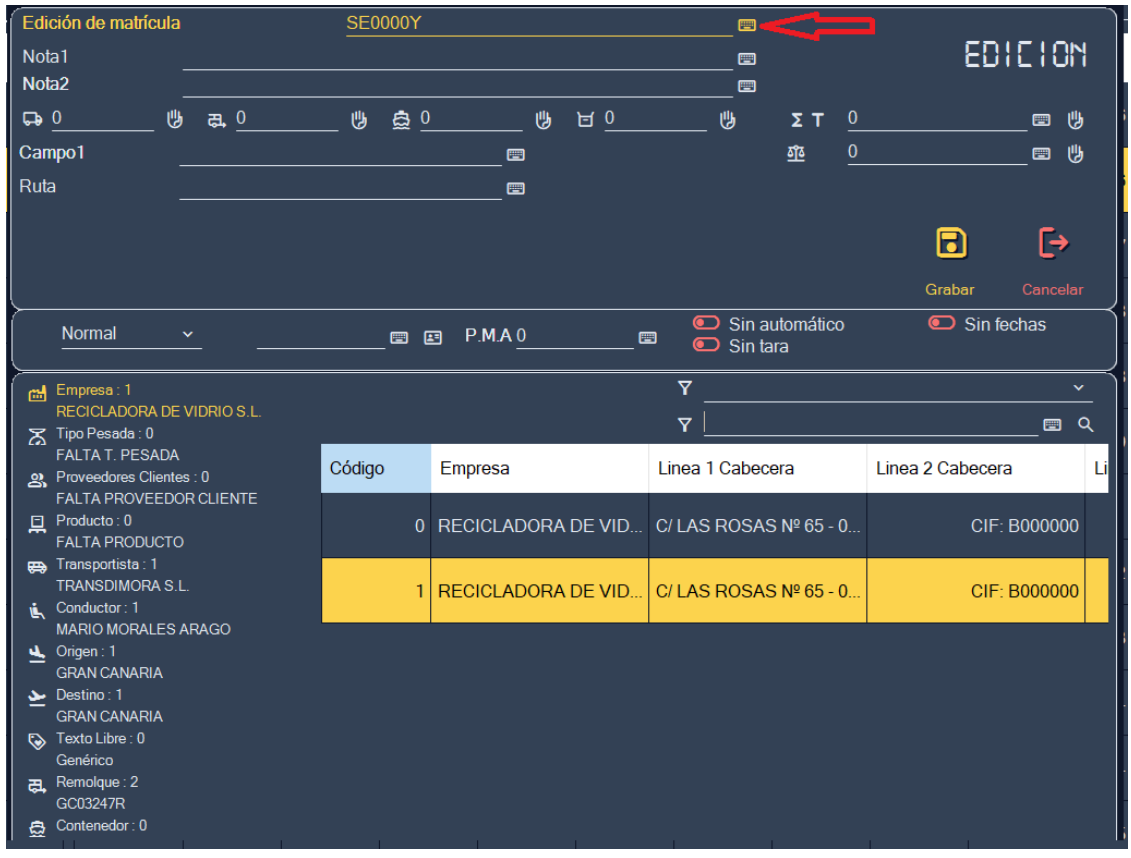
From Side Menu Data / Destination / Edit

Introduction of Destination data

Licence plates

From Side Menu Datas / Licence plates / Edit

Introducimos la Matrícula.



We write the weight of the **Vehicle Tare , if necessary, and with the switch** (**Tara**) we activate whether or not to use it in weighing.

We can also associate **Remolque tare**, **Container Tare** or a **Free tare.** All the tarrifs will be summed up and displayed in the field **Σ T** .

Tara Vehículo		T.Remolque		T.Contenedor		Tara Libre		Σ T Suma de Taras	

Normal	Cards	P.M.A 0	Automatic weighing No dates No Tare

If we use cards associated with the registration, the card code shall be entered in the field **Card**.

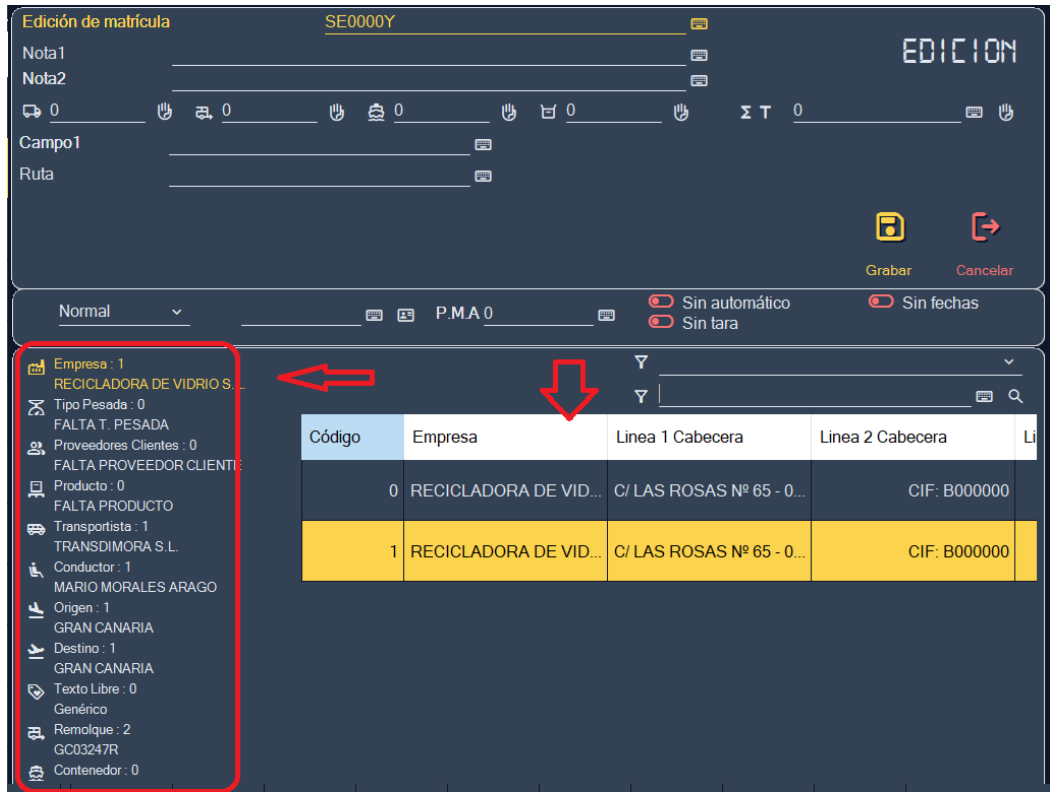
In the case of an ENI viewer, if the node configuration is already created correctly, we pass the card through the ENI viewer and, if we press the button next to the card field, the card code will be written in the corresponding field. (It is necessary that the scale is selected in the work form and there is no vehicle on the scale).
In P.M.A we shall enter the maximum authorised weight for this vehicle.

Tare. Enables or disables the use of tare weighing.

Automatic weighing . Enables or disables automatic weighing.

No Dates . Enables or disables date locking.
If the date of the MOT or insurance is out of date, it does not allow weighing.

Select Normal Weighing by default (other options would be Multi Load, Multi Unload).
Associate data:
We are associating data in the card of the number plate by clicking on the fields of the left column we will see the associated table to be able to choose the record that we want to associate.



The Notes1 and 2 fields allow us to write any associated text for any comment or custom application.

10. WORK OPERATIONS

On the work screen there are 5 different zones:

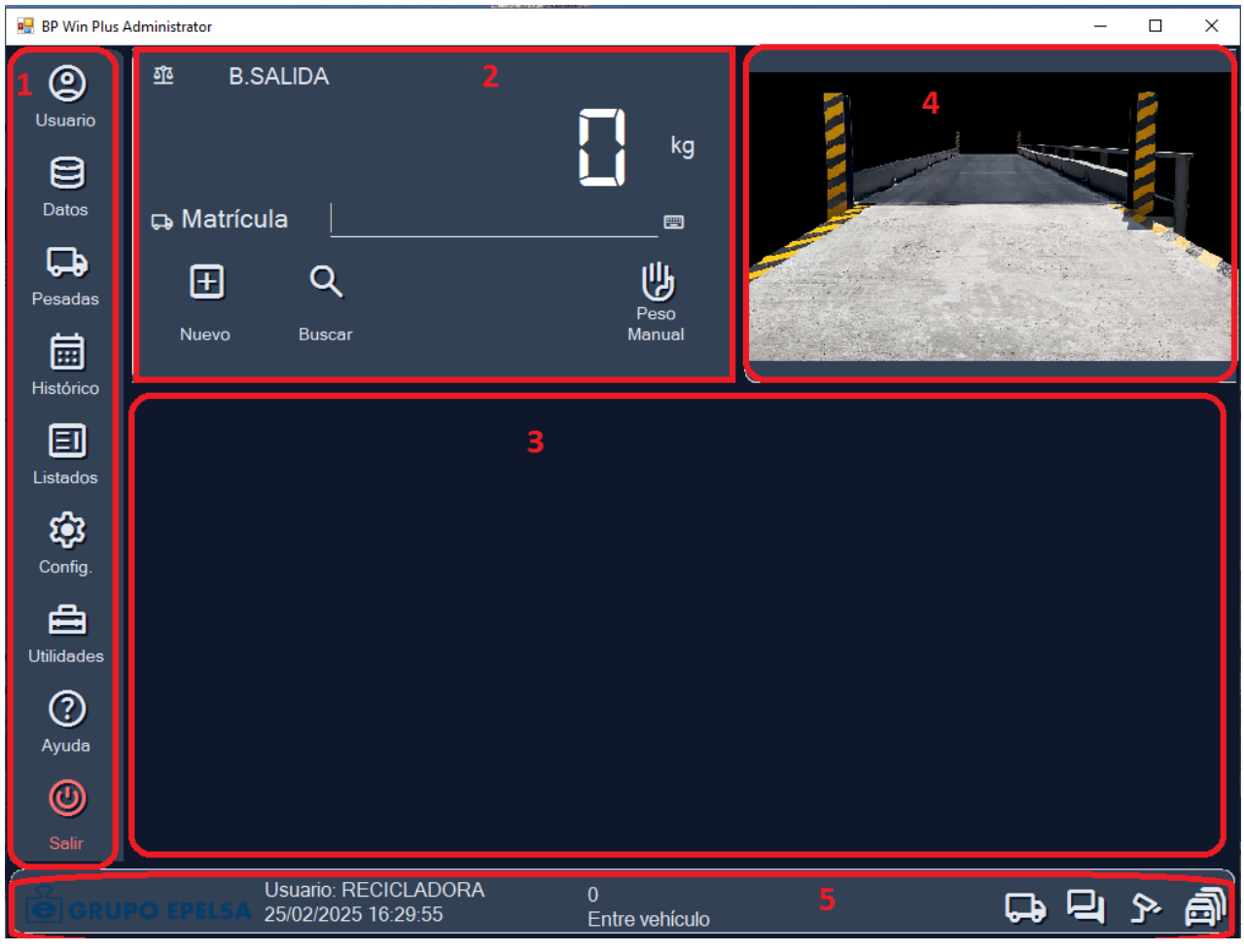
1. Left-hand column: Main menu.
2. Selection of scales (if we have more than one) and display of the weight.
3. Display of data according to the pressing of the buttons in section 5.
4. Camera display.
5. Display of messages and selection of data to be displayed in zone 3.

Shows trucks in transit in zone 3.

Chat

Number plate reader

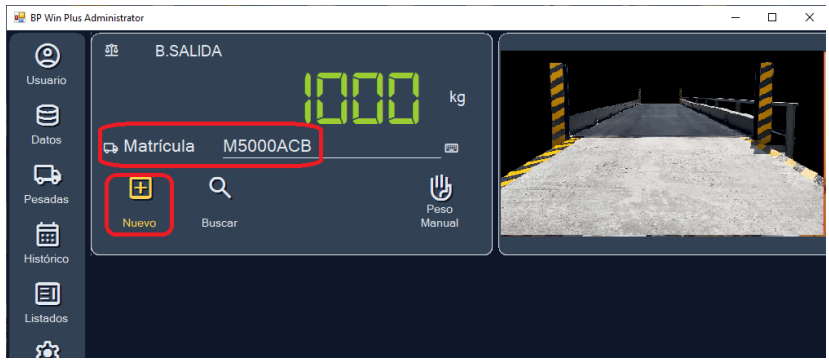
Access Control



Select the scale with which you are going to weigh, if there is only one, there is no need to select it.

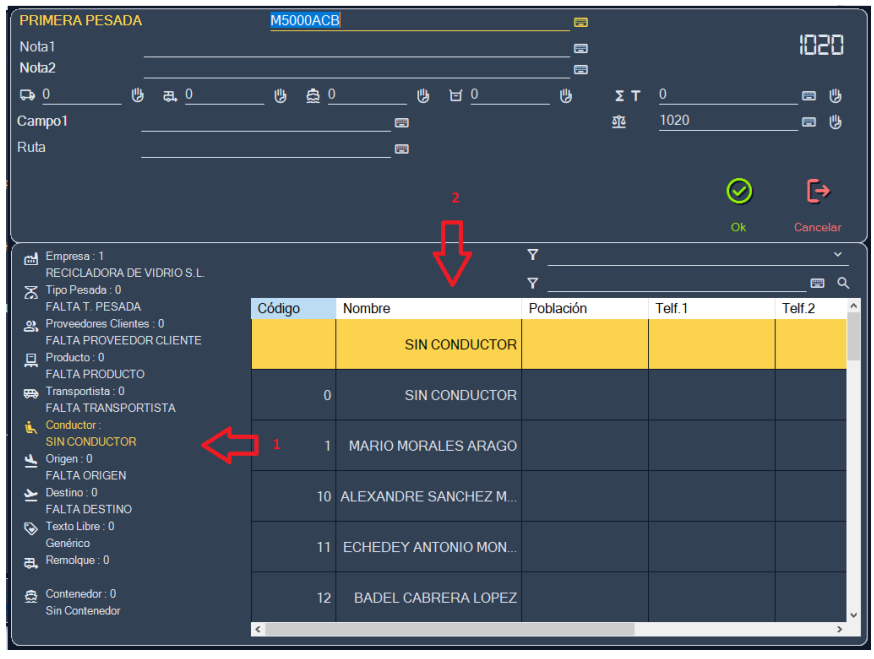
Option A (by typing in the number plate directly).

Enter the registration number in the Registration box and click on ⊞ New.



It will search the database for a weigh-in-transit. If not, it shall search the number plate table for associated data and display the First Weighing screen.

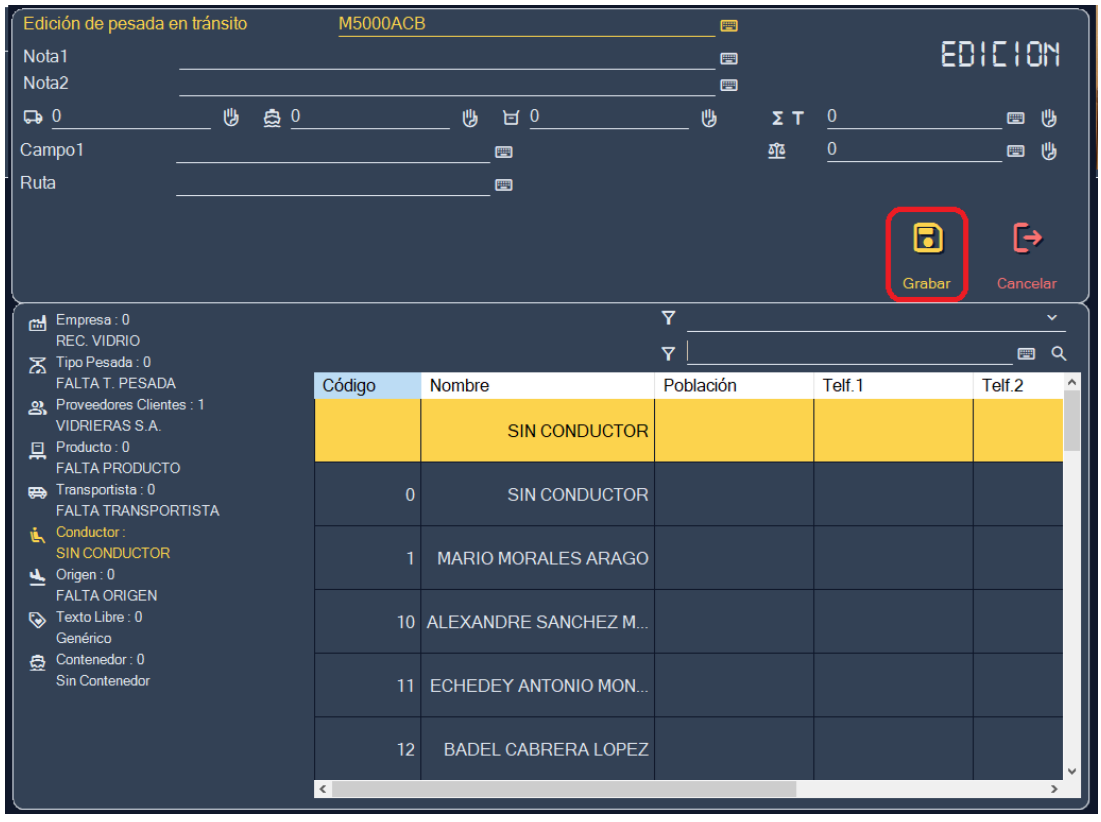
In point 1, we select in the left-hand column the data we want to modify and in point 2 the table appears to select the data we are interested in.



Once you have entered the data, click on ✓ Ok to record.
The item of the truck in transit will appear on the central screen.
All trucks in transit will be displayed here.

To output it, when you return, you can click directly on the truck item and the form for entering the data of the Second Heavy will open.

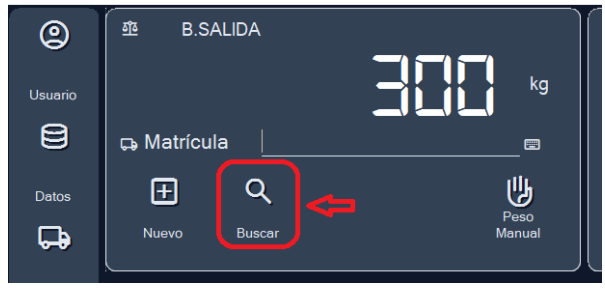
Modify the necessary data and click on the button. **Save to finish**.



The image of the truck in transit will disappear, the ticket will be printed according to the print settings and the record of the weighing will be saved.

Option B: Pre-recorded number plate search with the Magnifier

Click on the magnifying glass button



The search form for the number plates we have stored will appear.
You can use the search filter or select the entry in the grid..

Accept, the weighing data entry form will appear on the screen with the data we had associated with this licence plate.

Correct the data if necessary and press the button. Accept to end weighing.
In this example, the record of the weighing will be saved in table 1 Weighing and a new item will appear on the display.

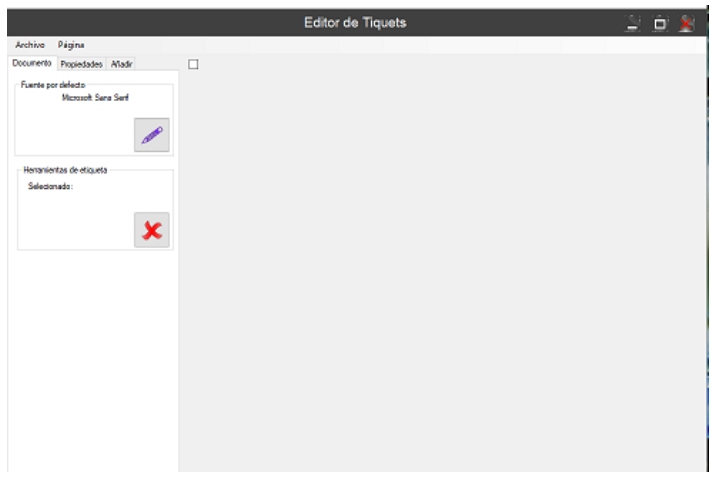
Option C: Weighing in automatic with ENI Indicator
In this case, the vehicle is placed on the scale and the associated card is swiped through the card reader.
If the indicator is programmed to request the product code from the driver, the equipment shall request it via the indicator display.
If this is not the case, the weighing will be carried out with the data associated with this number plate, the record will be recorded and a ticket will be printed, depending on whether it is 1st weighing or 2nd weighing, depending on what we have configured in the node in the automatic printing section.

Option D: Automatic weighing with camera-based number plate reading.

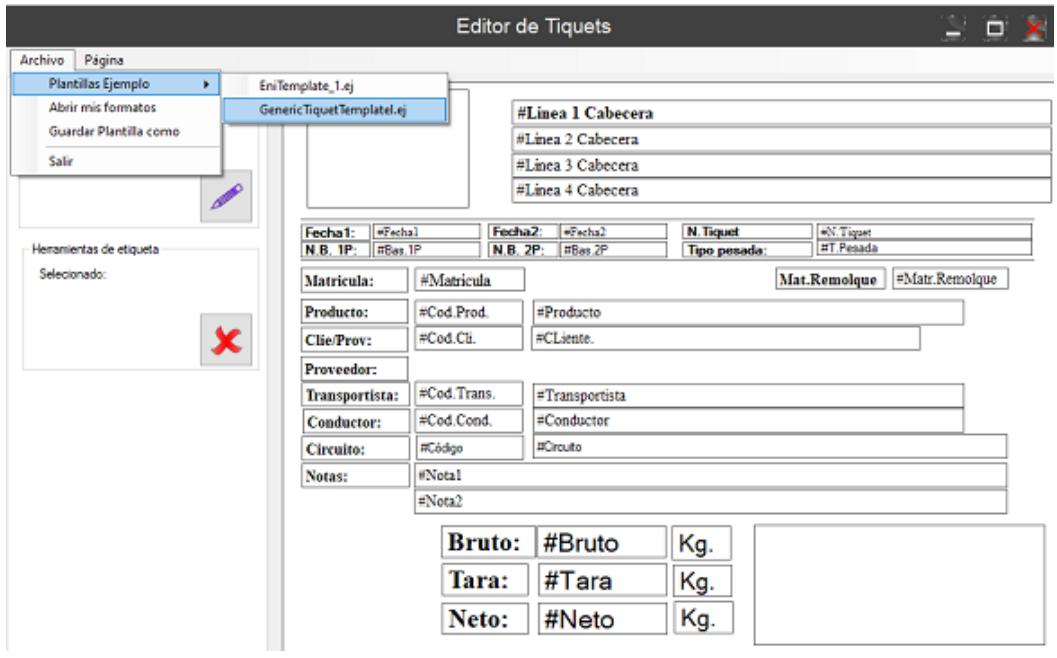
Requires a Professional or Higher licence.
In this case, the vehicle is placed on the scale and, when the camera reads the number plate, a search is made in the database and a weighing is carried out with the data associated with that number plate, provided that it is authorised for weighing.
A ticket will be printed depending on whether it is 1st Weighing or 2nd Weighing, depending on what we have programmed in the node configuration in the automatic printing section.

11. TICKET PUBLISHER

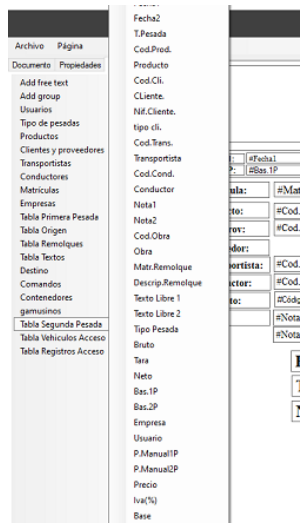
From the side menu Configuration / Tickets Editor
From this form you can design the format of the tickets to be issued.
There are two formats: the generic format for printing from the printers available in the Windows operating system and the specific format for ENI equipment.



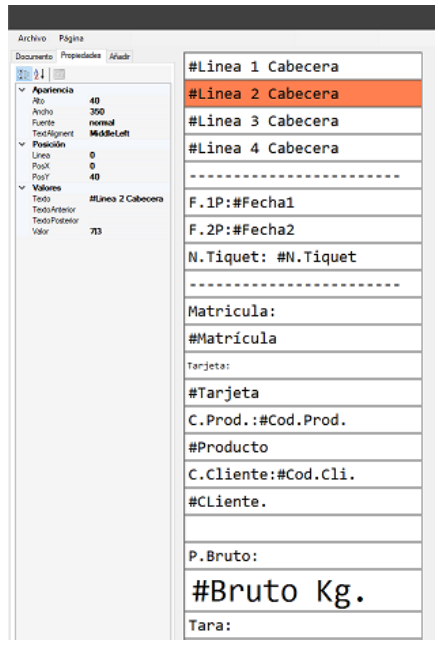
We can create an unlimited number of formats.
Sample templates are available so that you don't have to start from scratch when creating a design.



We can add or remove fields, move them around, change the font.

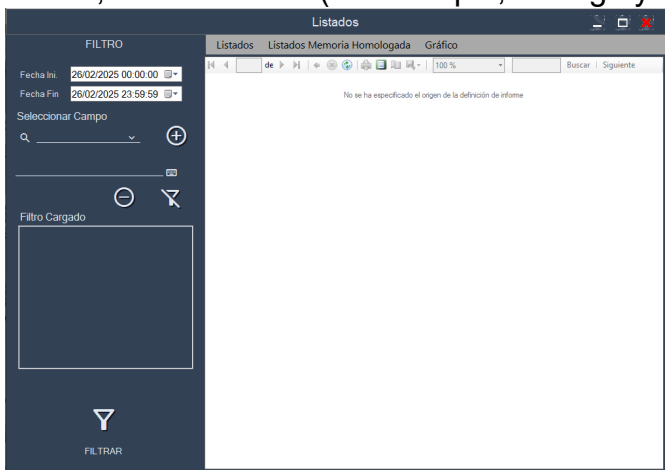


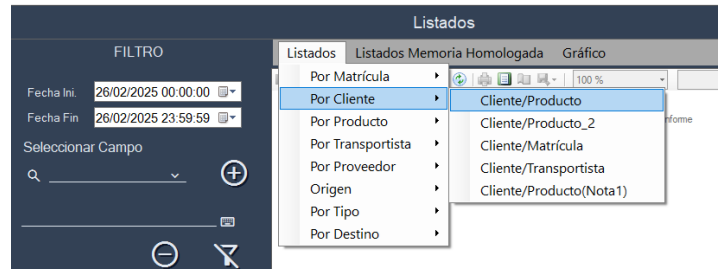
In the ENI format, we can add or remove fields, change the position and font.
We can also save the format with a custom name using the "Save as" option.



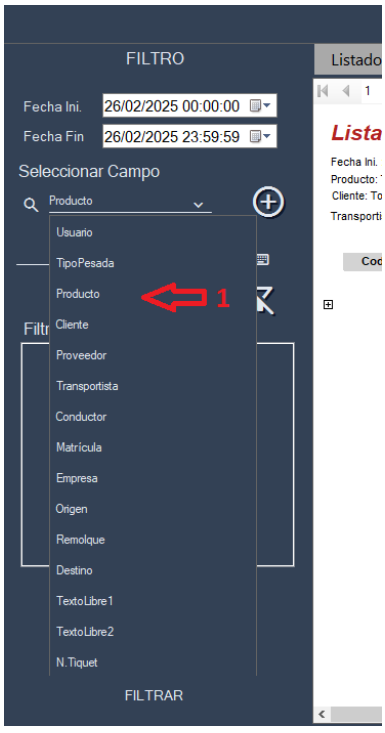
12. LISTED

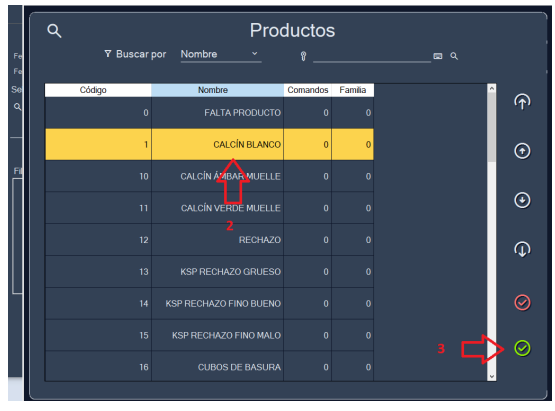
From the side menu: Listed
From this form, we can select different types of listings.
First, we select one (for example, Listing by Customer/Product).

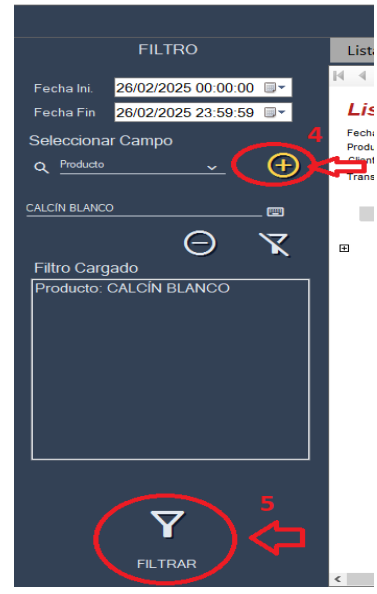




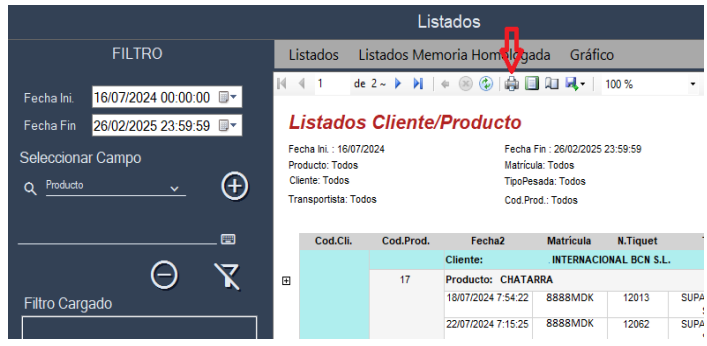
We can then filter the records by date and by different fields.



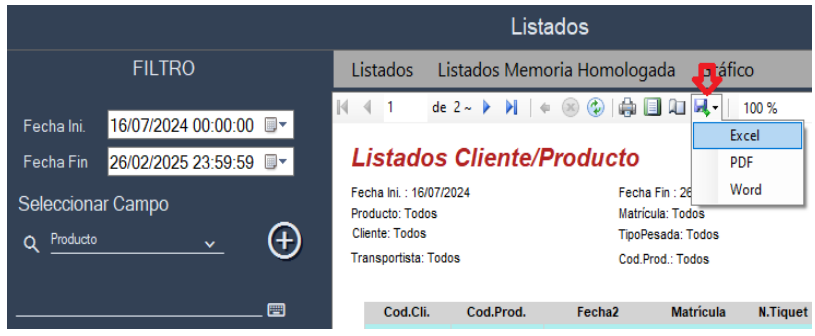




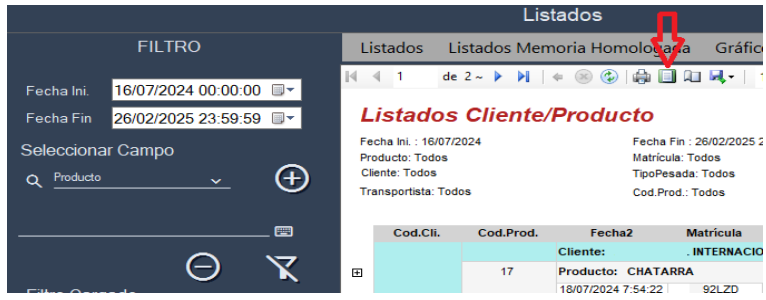
To print press:



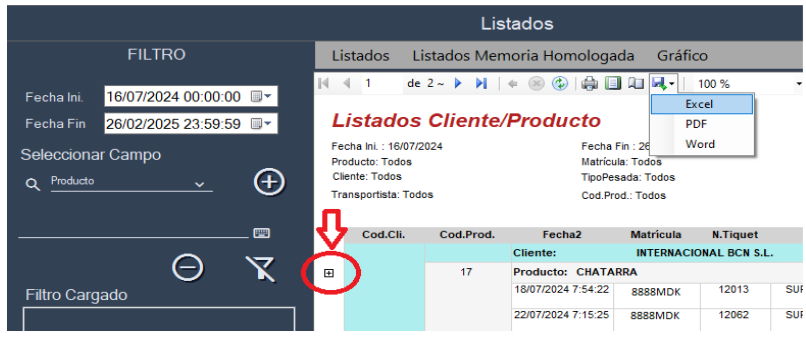
To export press:



Print design press:

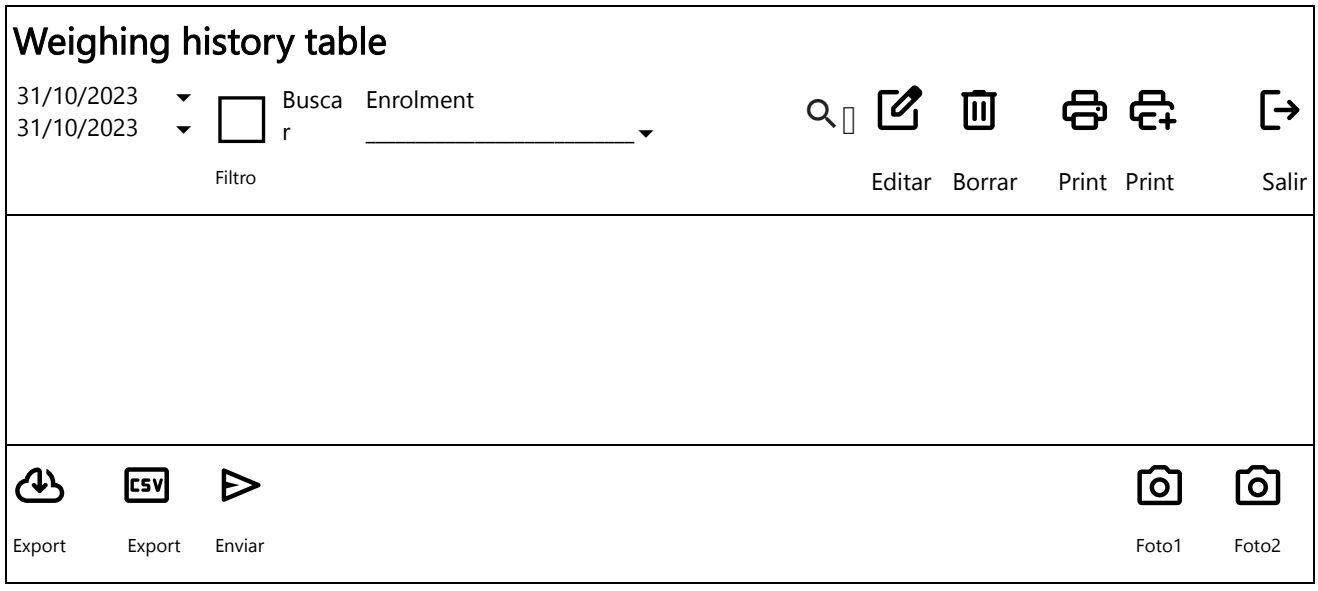


To delete or add details of displayed records press:



13. HISTORICAL WEIGHING TABLE

Access from Side Menu **Weighing history.**
From this form, you can view the records of the weighs carried out.
You can filter the searches by dates or by any field selected in the search filter, view the data on screen or print a customised list in .pdf or .csv format.
It is also possible to reprint any weighing record.



Search by selected filter
Search between selected dates
Export
Export the filtered records to a CSV formatted file
Print customised lists
Edit or modify weighing record.
Opens a form to modify the data of the record.
Delete the selected weighing record.
Print the selected record by the automation printer or by the manual printer.
Alternative printer
View first weighing photo

14. CUSTOMISED LISTS

As each client needs the information presented and grouped according to their requirements, and as not all such groupings are available in the BPWin Listings programme, the BPWin+ programme offers the possibility to configure multiple customised listings.

To do this, we can configure as many listings as the client wishes through the customisation form.

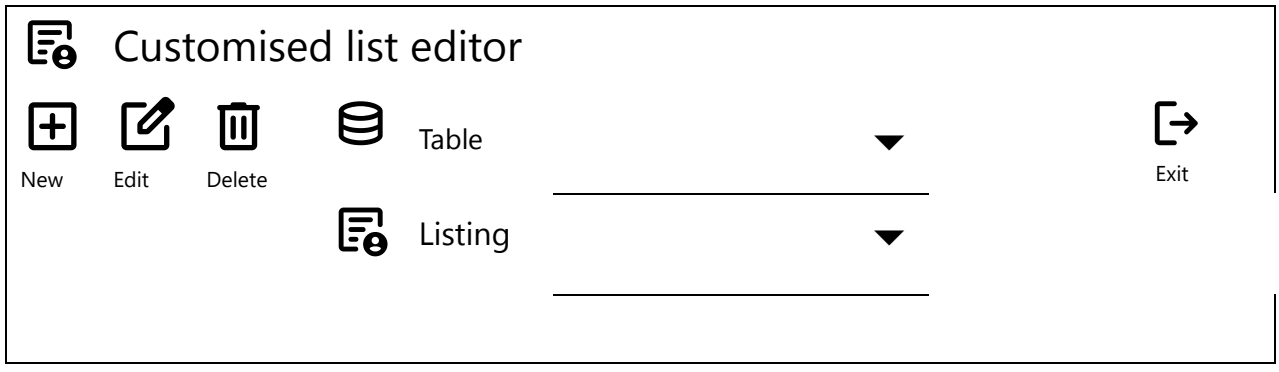
The Custom Listings form is accessed from the main screen.

Currency Lateral / **Configuration / Personalised Listings.**

This form allows the configuration of any data list in the programme, including all tables and columns within them, as well as offering two levels of grouping. Depending on what is programmed in the different fields, the list will show the information in one way or another, so special emphasis must be placed on checking that the programming coincides with the way we want to see the information.

We will be able to run our listings from the button in any form where it is found.

Submission of the form



The options offered by the form are the creation of a new list, the edition of an existing list or the deletion of an existing list.

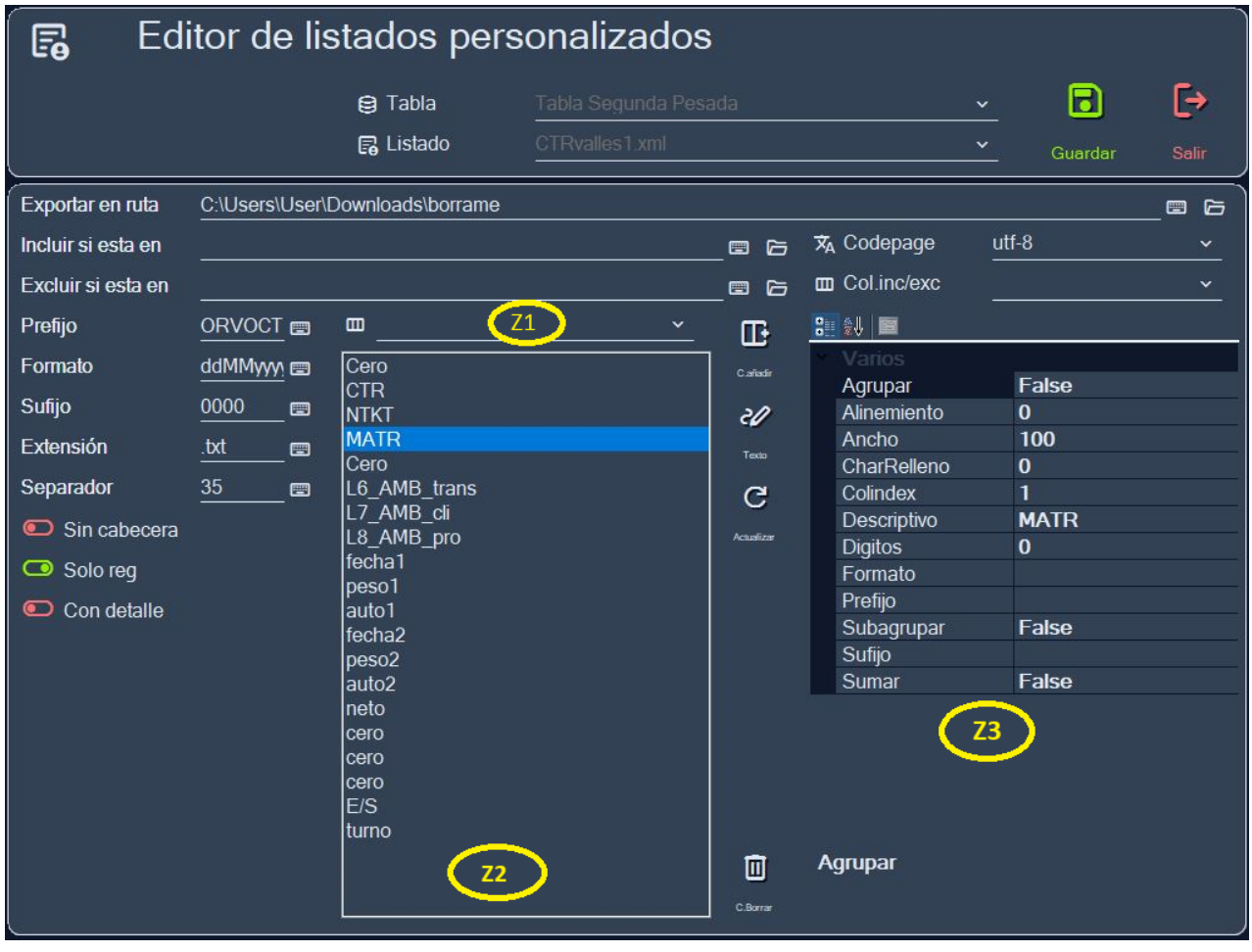
For any of the three options, we must first choose which table we want to work on (for example, SECOND HEAVY).

To create a new list, select the table we are going to work with, write the title of the list and click on the button **New**.

To edit an existing listing, we only need to select the table and click on the Edit button. Once this is done, a new form will open, allowing us to select among the existing listings of the table. By selecting the list and clicking on the Open button, the data will be loaded into the form, allowing us to edit the current data of the list.

To delete an existing listing, we only need to select the table and click on the Delete button. A new form will open allowing us to select from the existing listings of the table. By selecting the list and clicking on the Open button, the list will be permanently deleted. WARNING: this operation is not reversible.

Once a list has been opened for editing or a new one has been created, the new elements will appear in the form.



Z1 → Allows us to choose which column we want to add to the list.
Z2 → Shows us which columns we have in the list. Selecting the column shows us its properties.
Z3 → This area allows us to edit the properties of the selected column at will.
→ Saves the current listing and its modifications.

Description and use of the properties of each columna

Group

The lists can simply be an enumeration of the fields we want, but sometimes we need equal values to be grouped together.

Examples of use:

- Example 1: We want to show all the articles of the same family (table products).
- Example 2: We want to show all the records of a number plate (second weighing table).
- Example 3: We want to show all the daily records (second weighing table).
- Example 4: We want to group the weighings by product (second weighing table).
- Example 5: We want to group the weighings by customer (second weighing table).

For this purpose, on the column to be grouped, we will set the value to TRUE.

The program ignores any additional grouping and ignores the grouping property of the list once it has read the first grouping column.

Alignment

Possible values:

0	1	2
midato	midato	midato

Broad

This is the percentage value that the selected column occupies within the list. The value 100 indicates that it occupies the entire width of the page and the value 5 only 5% of the page.

The sum of all the columns must not exceed 100% in order not to obtain oddities in the printout.

Sometimes we may want to add a column to group, but not represent it in each of the records, in which case the width value should be 0 so that the column is taken into account in the list but is not represented in the records.

Colindex

Indicates the index in reference to the table that occupies this column, ignore the value as it takes the indexed column correctly. Manipulate the value only experts.

Descriptive

This is the title of the column containing the data.

Format

Sometimes we are not interested in presenting the information as it is recorded but through a presentation style, in these occasions we use the format property.

The format is dependent on the data value of the column, i.e. you cannot apply numeric formatting to text columns, or date formatting to number fields.

Sometimes we are interested in grouping by date, but when we do so we realise that the records do not join, that is because we have not formatted the date correctly. You have to think that grouping only groups EQUAL data and that 12/12/2023 11:39 is not equal to 12/12/2023 12:14. However, using the format dd/MM/yyyy both data become 12/12/2023 and then they are equal and are grouped together.

Some examples

0,000 for numbers will show the value 21520 as 21.520

dd/MM/yy for date will display the value 12/12/2023 11:39 as 12/12/23

For more information see FORMATS ANNEX.

Subgroup

The lists can simply be an enumeration of the fields we want, but sometimes we need equal values to be put together at several levels.

Examples of use:

- Example 1: Customer/Licence Plate (Group by customer, subgroup by licence plate)
- Example 2: Customer/Product (Group by customer, subgroup by product)
- Example 3: Product/Customer (Group by product, subgroup by customer)
- Example 4: Customer/Day (Group by customer, subgroup by day (date format dd/MM/yy))

For this purpose, on the column to be subgrouped, we shall set the value TRUE.

The program ignores if there are "n" subgroupings, ignoring the subgroup property of the list once it has read the first subgrouping column.

Add

Subgrouped values of columns with the Sum property set to TRUE shall be summed in each subgroup and also in each grouping.

Especially useful for obtaining totals.

Value

Field not used, not used.

General file parameters

Export in path. We will put the path where the file will be exported.

Include if in. Only the data included in it will be added to the list, excluding all the others.

Exclude if in. The existing data in the file will be excluded from the list, including all the others.

Col.inc/exc. Here we tell you which column is going to be taken into account in the inclusion or exclusion file.

Prefix. Prefix of the file name

Suffix. Suffix of the file name.

Format. If you want to use it, it saves the date in the file name with the format we indicate. If not, leave blank and use the prefix and/or prefix for the name.

Extension. Indicate which extension of the file we want (.txt, .dat, etc.)

Separator. We indicate the field separator with the decimal value of the character.

Without/With header. We indicate if we want to insert the descriptive headers of the fields in the file.

Only records / Subtotal lines. If we choose only records, it will record the records without subtotals.

With detail / without detail. If we choose without detail, each detail line will not be printed, making the report shorter. Especially useful for totalisation reports where the details of the individual weighings are not important.

Example of a list of items without grouping.

We use the columns: code (width 25%), name (width 50%), family (width 25%).

Code	Name	Family
0	General product	0
1	Golden apple	1
3	Lemons	2
2	Fuji apple	1

Example of a list of items grouped by family.

Same fields as previous example. In family we set group and sub group to TRUE.

Family 0

Code	Name	Family
0	Producto general	0

Familia 1

Code	Name	Family
1	Manzana golden	1
2	Manzana fuji	1

Family 2

Code	Name	Family
3	Limones	2

Example of a personalised list.

Enrolment (20%), ntkt (20%), Product (20%), Date (20%), Net (20%)

Ungrouped data with weight column Add to TRUE

Enrolment	ntkt	Product	Date	Weight
9995DGS	5	Limones	22/03/2017	12000
0839JWV	6	Manzana golden	22/03/2017	11000
9995DGS	7	Manzana golden	22/03/2017	12000
0839JWV	8	Limones	22/03/2017	13000
9995DGS	9	Limones	22/03/2017	12000
				60000

Same data with Enrolment group TRUE, Product sub group TRUE and Weight add TRUE.

Enrolment 9995DGS

Enrolment	ntkt	Product	Date	Weight
Product Lemons [2 reg]				
9995DGS	5	Limones	22/03/2017	12000
9995DGS	9	Limones	22/03/2017	12000
				24000
Product Golden apple				
9995DGS	7	Manzana golden	22/03/2017	12000
				12000

Enrolment 0839JWV

Enrolment	ntkt	Product	Date	Weight
Product Golden apple [1reg]				

0839JWV	6	Golden Manzana	22/03/2017	11000
				11000
	Product Lemons [1reg]			
0839JWV	8	Limones	22/03/2017	13000
				13000

Same data with License plate group TRUE, Product sub group TRUE, Weight add TRUE and No Detail to TRUE.

Enrolment 9995DGS

Enrolment	ntkt	Product	Date	Weight
	Product Lemons [2 reg]			
				24000
	Product Golden apple			
				12000

Enrolment 0839JWV

Enrolment	ntkt	Product	Date	Weight
	Product Golden apple [1reg]			
				11000
	Product Lemons [1reg]			
				13000

Annex Format

Date symbols

Symbol	Range
d	1-31 (day of the month, without leading zero)
dd	01-31 (day of the month, with leading zero)
w	1-7 (day of the week, starting with Sunday = 1)

Symbol	Range
ww	1-53 (week of the year, without leading zero; week 1 starts on 1 January)
m	1-12 (month of the year, without leading zero, starting with January = 1)
mm	01-12 (month of the year, with leading zero, starting with January = 01)
mmm	Displays abbreviated month names (Hijri month names have no abbreviations).
mmmm	Displays full month names
y	1-366 (day of the year)
yy	00-99 (last two digits of the year)
yyyy	100-9999 (three- or four-digit year)

Time symbols

Symbol	Range
h	0-23 (1-12 with "A. M." or "P. M." appended) (time of day, no leading zero)
hh	00-23 (01-12 with "A. M." or "P. M." appended) (time of day, with a leading zero)
n	0-59 (minute of hour, without leading zero)
nn	00-59 (minute of hour, with leading zero)
m	0-59 (minute of hour, without leading zero). Only if preceded by h or hh
mm	00-59 (minute of hour, with leading zero). Only if preceded by h or hh
s	0-59 (second of minute, without leading zero).
ss	00-59 (second of minute, with leading zero).

Different formats for different numerical values Una expresión formato definida por el user for numbers can have between one and four sections separated by semicolons. If the format argument contains one of the named numeric formats, only one section is allowed.

It is used	The result is
One section only	The format expression applies to all values.
Two sections	The first section applies to positive values and zeros, the second to negative values.
Three sections	The first section applies to positive values, the second to negative values and the third to zeros.
Four sections	The first section applies to positive values, the second to negative values, the third to zeros and the fourth to Null values.

Different formats for different chain values

A format expression for strings may have one section or two sections separated by a semicolon (;).

It is used	The result is
Only one section	The format applies to all string data.

It is used	The result is
Two sections	The first section applies to string data, the second to Nully string values of length zero ("").

Named date and time formats

The following table identifies the predefined date and time format names.

Number of format	Description
General Date	Displays a date and/or time, e.g. 4/3/93 05:34 P.M.. If there is no fractional part, displays only a date, e.g. 4/3/93. If there is no integer part, it displays only the time, e.g. 05:34 P.M.. The display of the date depends on the system configuration.
Long Date	Displays a date according to the system's long date format.
Medium Date	Displays a date in the median date format appropriate for the host application language version.
Short Date	Displays a date in the system short date format.
Long Time	Displays a time in the system long time format; includes hours, minutes, seconds.
Medium Time	Displays the time in 12-hour format with hours and minutes, and the AM/PM designator.
Short Time	Displays a time in 24-hour format, for example, 17:45.

Named numeric formats

The following table identifies the predefined numeric format names.

Number of format	Description
General Number	Displays the number without the thousands separator.
Currency	Displays the number with the thousands separator, if applicable; displays two digits to the right of the decimal separator. The result depends on the regional setting of the system.
Fixed	Displays the minus one digit to the left and two digits to the right of the decimal separator.
Standard	Displays the number with the thousands separator, at least one digit to the left and two digits to the right of the decimal separator.
Percent	Displays a number multiplied by 100 with a percent sign (%) appended to the right; always displays two digits to the right of the decimal separator.
Scientific	Uses standard scientific notation.
Yes/No	Displays No if the number is 0; otherwise, displays Yes.
True/False	Displays False if the number is 0; otherwise, displays True.
On/Off	Displays Off if the number is 0; otherwise, displays On.

User-defined string formats

Use the following characters to create a formatting expression for strings.

Character	Description
@	Character placeholder. Displays either a character or a space. If the string has a character in the position where the hash mark (@) appears in the format string, it displays it; otherwise, it displays a space in that position. Placeholders are filled from right to left, unless there is an exclamation point character (!) in the format string.
&	Character placeholder. Displays a character or nothing. If the string has a character in the position where the commercial y (&) appears, it displays it; otherwise, it displays nothing. Placeholders are filled from right to left, unless there is an exclamation point character (!) in the format string.
<	Lower case forces. Displays all characters in lower case.
>	Upper case forces. Displays all uppercase characters.
!	Forces placeholder padding from left to right. The default behaviour is to fill placeholders from right to left.

User-defined date and time formats

The following table identifies the characters you can use to create user-defined date/time formats.

Character	Description
(:)	Date separator. In some regional settings, other characters may be used to represent the time separator. The time separator separates hours, minutes, and seconds when formatting time values. The actual character used as the time separator in the formatted result depends on the system configuration.

Character	Description
(/)	Date separator. In some locales, other characters may be used to represent the date separator. The date separator separates the day, month and year when formatting date values. The actual character used as date separator in the formatted result depends on the system configuration.
c	Displays the date as ddddddd and displays the time as ttttt, in that order. Displays only the date information if there is no fractional part in the date serial number; only the time information is displayed if there is no integer part.
d	Displays the day as a number without a leading zero (1-31).
dd	Display the day as a number with a leading zero (01-31).
ddd	Display the day as an abbreviation (Sun-Sat). Localised.
dddd	Display the day as a full name (Sunday-Saturday). Localised.
ddddd	Display the date as a full date (including day, month and year) formatted according to the system's short date format settings. The default short date format is m/d/yy.
dddddd	Displays a date serial number as a complete date (including day, month and year) formatted according to the long date setting recognised by the system. The default long date format is mmmm dd, yyyy.
w	Displays the day of the week as a number (1 for Sunday to 7 for Saturday).
ww	Displays the week of the year as a number (1-54).
m	Displays the month as a number without a leading zero (1-12). If m immediately follows h or hh, the minute is displayed instead of the month.
mm	Displays the month as a number with a leading zero (01-12). If m immediately follows h or hh, the minute is displayed instead of the month.
mmm	Display the month as an abbreviation (Jan-Dec). Localised.
mmmm	Display the month as a full month name (Jan-Dec). Localised.
q	Show the quarter of the year as a number (1-4).
y	Displays the day of the year as a number (1-366).
yy	Displays the year as a 2-digit number (00-99).
yyyy	Displays the year as a 4-digit number (100-9999).
h	Displays the time as a number without a leading zero (0-23).
hh	Displays the hour as a number with a leading zero (00-23).
n	Displays the minute as a number without a leading zero (0-59).
nn	Displays the minute as a number with a leading zero (00-59).
s	Show the second as a number without a leading zero (0-59).
ss	Show the second as a number with a leading zero (00-59).
ttttt	Display the time as a complete hour (hour, minute, and second), using the time separator defined by the time format recognised by the system. A leading zero is displayed if the leading zero option is selected and the time is before 10:00 A.M. or P.M. The default time format is h:mm:ss.
AM/PM	Uses the 12-hour clock and displays AM in uppercase with any time before noon; displays PM in uppercase with any time between noon and 11:59 P.M.
am/pm	Uses the 12-hour clock and displays AM in lower case with any time before noon; displays PM in lower case with any time between noon and 11:59 P.M..
A/P	Uses the 12-hour clock and displays a capital A with any time before noon; displays a capital P with any time between noon and 11:59 P.M.

Character	Description
a/p	Uses a 12-hour clock and displays a lowercase A with any time before noon; displays a lowercase P with any time between noon and 11:59 P.M.
AM/PM	Uses the 12-hour clock and displays the string AM as defined by the system with any time before noon; displays the string PM as defined by the system with any time between noon and 11:59 P.M. AMPM can be lowercase or uppercase, but the case of the displayed string matches the string that was defined in the system configuration. The default format is AM/PM. If the system is set to the 24-hour clock, the string is usually set to a zero-length string.

User-defined numeric formats

The following table identifies the characters you can use to create user-defined number formats.

Character	Description
None	Displays the unformatted number.
(0)	Digit placeholder. Displays a digit or a zero. If the expression has a digit in the position where the 0 appears in the format string, it displays it; otherwise, it displays a zero in that position. If the number has fewer digits than zeros (on either side of the decimal point) in the format expression, displays leading or trailing zeros. If the number has more digits to the right of the decimal separator than zeros to the right of the decimal separator in the format expression, it rounds the number to as many decimal places as the number of zeros. If the number has more digits to the left of the decimal separator than zeros to the left of the decimal separator in the format expression, displays the additional digits unchanged.
(#)	Digit placeholder. Displays a digit or nothing. If the expression has a digit in the position where # appears in the format string, it displays it; otherwise, it displays nothing in that position. This symbol works like a 0-digit placeholder, except that leading and trailing zeros are not displayed if the number has the same digits or fewer digits as # characters on the side of the decimal separator in the format expression.
(.)	Decimal placeholder. In some locales, a comma is used as a decimal separator. The decimal placeholder determines the number of digits that appear to the left and right of the decimal separator. If the format expression contains only number signs to the left of this symbol, numbers less than 1 begin with a decimal separator. To display a leading zero with fractional numbers, use 0 as the first digit placeholder to the left of the decimal separator. The actual character used as a decimal placeholder in the formatted result depends on the number format recognised by your system.
(%)	Percentage placeholder. Multiplies the expression by 100. The percent character (%) is inserted at the position where it appears in the format string.
(,)	Thousands separator. In some locales, a full stop is used as a thousands separator. The thousands separator separates thousands from hundreds in a number that has four or more digits to the left of the decimal separator. The standard use of the thousands separator is specified if the format contains a thousands separator surrounded by digit placeholders (0 or #). Two adjacent thousands separators or a thousands separator immediately to the left of the decimal separator (regardless of whether a decimal is specified) means "scale the number by dividing by 1000, rounding as necessary". For example, you can use the format string "##0", to represent 100 million as 100. Numbers less than 1 million are shown as 0. Two adjacent thousands separators in any position other than immediately to the left of the decimal separator are simply considered to

Character	Description
	specify the use of a thousands separator. The actual character used as a thousands separator in the formatted result depends on the number format recognised by your system.
(:)	Date separator. In some regional settings, other characters may be used to represent the time separator. The time separator separates hours, minutes, and seconds when formatting time values. The actual character used as the time separator in the formatted result depends on the system configuration.
(/)	Date separator. In some regional settings, other characters may be used to represent the date separator. The date separator separates the day, month, and year when formatting date values. The actual character used as the date separator in the formatted result depends on the system configuration.
(E- E+ e- e+)	Scientific formatting. If the format expression contains at least one digit placeholder (0 or #) to the right of E-, E+, e- or e+, the number is displayed in scientific format and E or e is inserted between the number and its exponent. The number of digit placeholders to the right determines the number of digits in the exponent. Use E- or e- to place a minus sign next to negative exponents. Use E+ or e+ to place a minus sign next to negative exponents and a plus sign next to positive exponents.

15. Input files Output (I/O_Files)

This functionality is added to the programme, which consists of processing the in file to execute weighing automatically and exporting the out1p and out2p files when the corresponding weighing is carried out.

This functionality is only operative under PROFESSIONAL LICENCE.

You can activate the automation of these files in Configuration>>General >> Auto.

☑ Auto reading IN Files

☑ Auto create OUT Files 1P

☑ Auto create OUT Files 2P

Operation and processing of files

When the automatic reading of the IN file is activated, the path configured in the IN file is polled periodically (every 500ms). The path can be a shared folder on the network or it can be on the server if the PC has sufficient access credentials.

The IN file can be configured so that the different fields of the DB can be written to the existing values left inside the IN file. If it is not possible to find a code or move the field, the field will be moved to the first record of the same table (generic record), if it could not be weighed (because the scale is empty, for example) the file will be renamed by adding a "_E" at the end of its name.

The field added in the file configuration through the button □add id will be written in the field L5 (free 5) of the database. This field will be part of the naming structure of the OUT1P and OUT2P files.

The OUT1P file is created when the first weighing has been carried out. Logically, as a condition for creating this file, no pre-programmed tare must be used in the licence plate table.

The OUT2P file is created when the second weighing has been performed.

FILE IN

File name structure IN

Vehi_Basc_N.csv

File structure IN

cabecera_1; cabecera_2; cabecera_3; cabecera_4; ..... cabecera_n;

dato1 ; dato2; dato3, dato4; ..... dato_n;

The fields of the file must be logical, as it is a first weighing, we must take the data from the different tables that we need as if we were choosing them for the first weighing (we must not take data from tables of in transit, second weighing, vehicle access).

FILE OUT1P y FILE OUT2P

File name structure **OUT1P**

Licence plate_L5_Bascule_M.csv

Filename structure of the OUT2P file

License_L5_L5_Bascula_N.csv

Licence plate: data to be set in the vehicle's licence plate.

L5: data contained in the free field 5, it is recommended for this type of applications to set the field L5 as not visible so that it cannot be manipulated manually in the weighing process.

Scale: The scale number in BPWin+, where 1 is the first scale.

M: Letter "M

N: Letter "N".

The field separator of the nomenclature is the character "_" HEX(5F) DEC(95)

OUT 1P and OUT2P File Structure

header_1; header_2; header_3; header_4; ..... header_n;

data1 ; data2; data3, data4; ..... data_n;

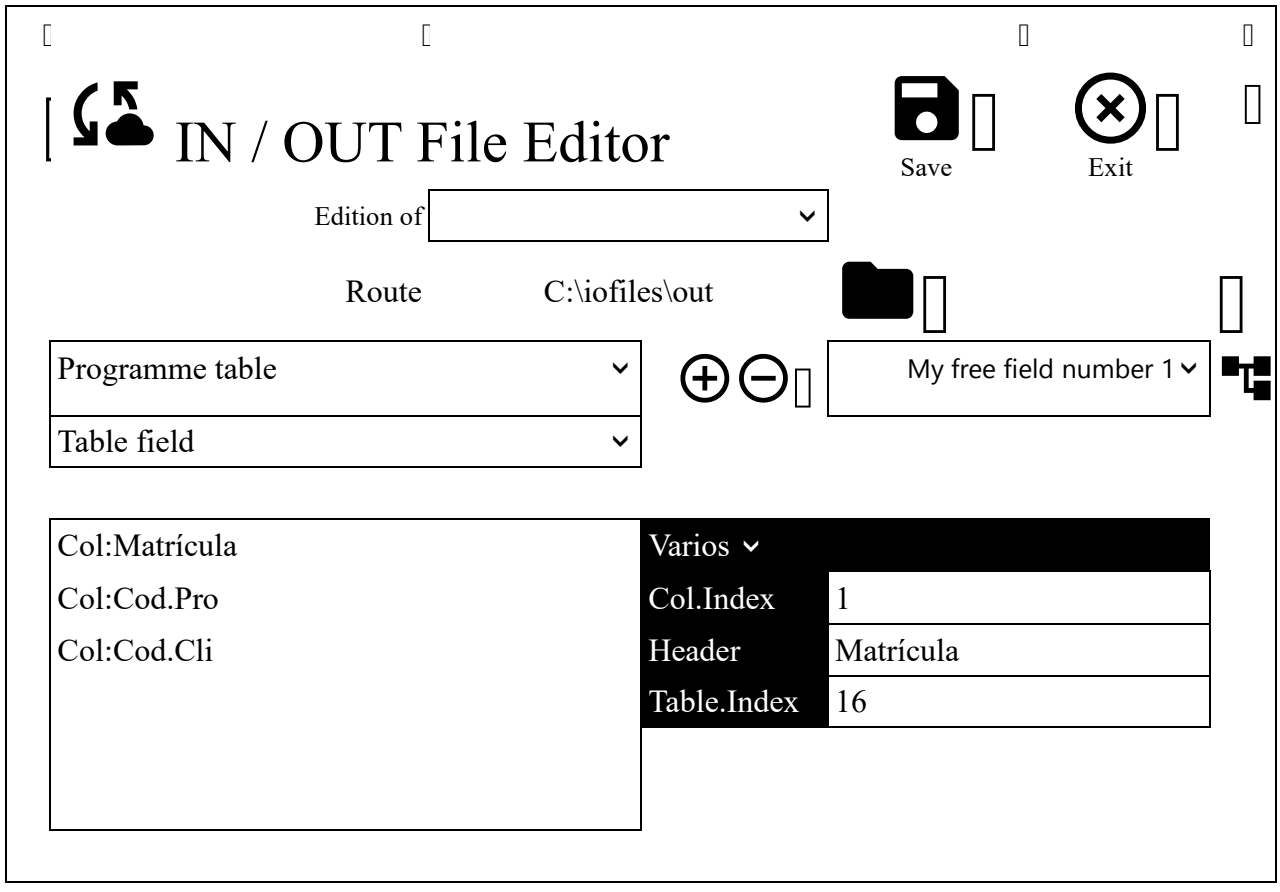
The fields in the file must be logical. As this is a first weighing, we must take the data from the different tables that we need as if we were choosing them for the first weighing. (We must not take data from tables such as "in transit", "second weighing" or "vehicle access" in the OUT1P files).

We strongly recommend that for OUT2P files you use only fields from the second weighing table (although fields from other tables can be used if necessary).

File configuration form.

The form is accessed via the Side Menu Configuration / IN-OUT FILE editor

The form looks as follows.



1. Choose the type of edition by means of the comboBox Edition of....
2. The input/output folder of Ruta must be chosen, for this purpose we will use the button
3. Choose the table and field you want to add and click on , in case of files in there is also the possibility to add any free field by using the button we can also define in which column the vehicle registration number is located.
4. The name of the header is changed to the user's liking.
5. Repeat steps 3 and 4 as many times as necessary. If you do not want any more columns in your file, click on the button .

Other options.
You must use the button to delete an unwanted column.

To exit the form we must use the button ⊗. Caution: if you do not press 🖫 on the changes made have no effect.

EPELSA

MADRID
C/Punto Net, 3
Parque Tecnológico TECNOALCALÁ
28805 Alcalá de Henares Madrid
Telf. +34 91 830 46 16
info@grupoepelsa.com

BARCELONA / Berga
Sant Bartomeu, 106-109
Pol.Ind. La Valldan
08600 Berga (Barcelona)
Telf.. +34 93 822 13 33
info@grupoepelsa.com

BARCELONA / Cornellá de Llobregat
Passeig del Ferrocarrils Catalans, 117.
3ª Planta, Oficina 25
08940 Cornellá de Llobregat (Barcelona)
Telf.. +34 93 654 62 12
info@grupoepelsa.com

SEVILLA
Pol. Industrial La Red
Calle 25 Nave 16
41500 Alcala de Guadaira (Sevilla).
Telf. +34 95 563 07 09
info@grupoepelsa.com

FRANCE
EXA – Pesage Electronique
4 rue Rémora.
Zone d'Activités Rémora
33170 Gradignan
Tél :+33 556 757 780
info@exa-france.com