

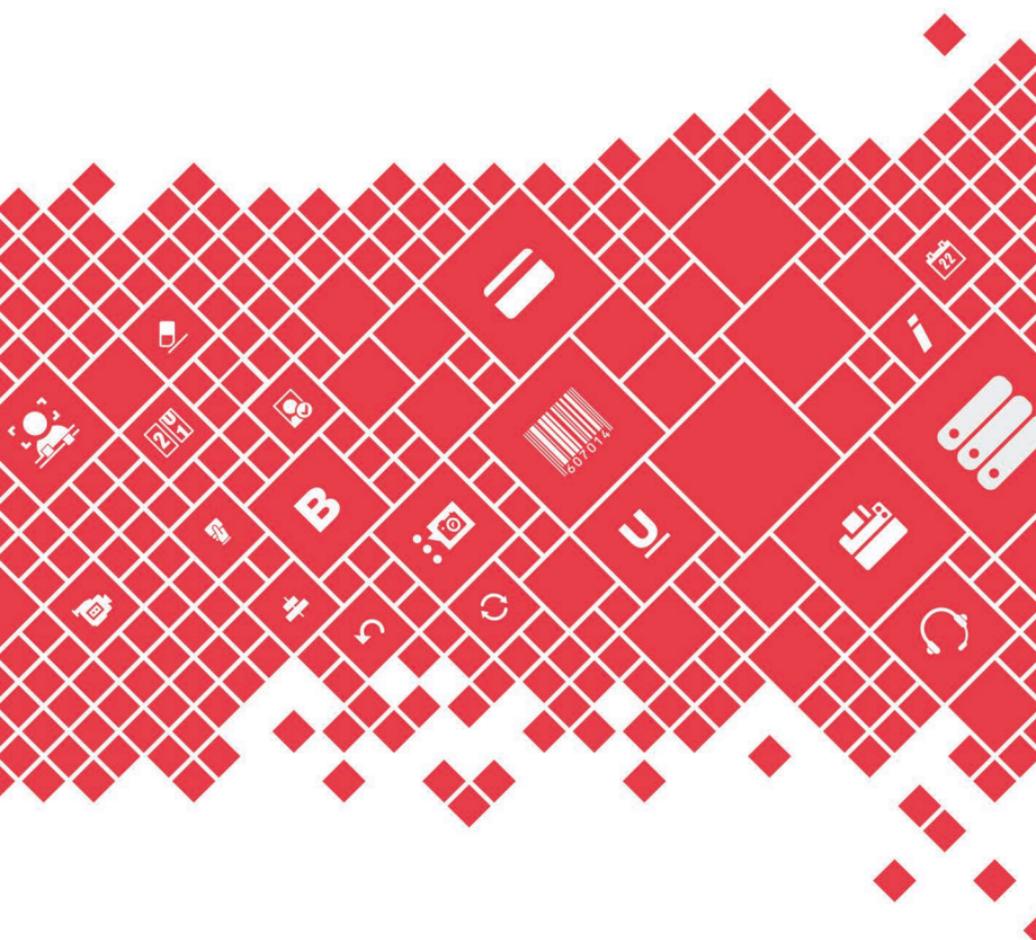
INSTALLATION GUIDE AND MINIMANUAL



ID CARD SOFTWARE DESIGN

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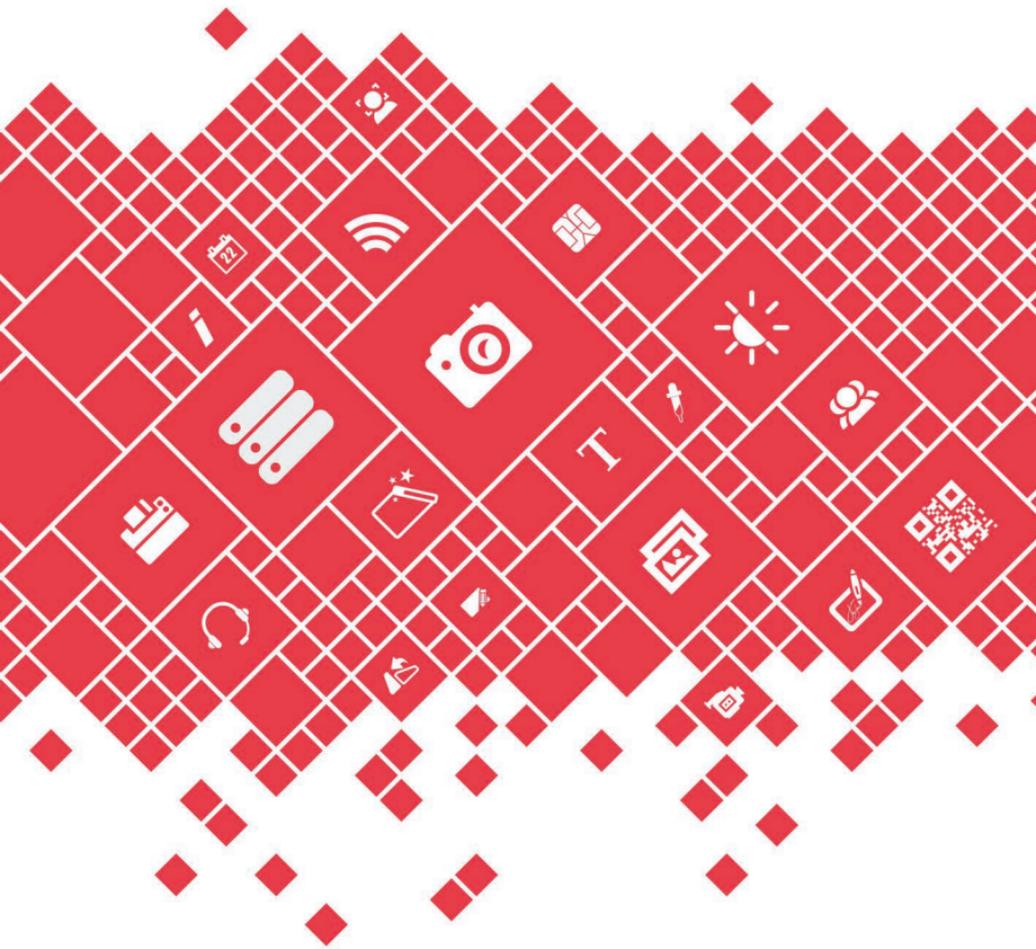
Installation Guide **Windows Installation**

Windows Installation

Place the USB that comes with the program into a free USB port on your PC, which should be used only for this purpose.

Click on the window that will open automatically. Accept the license, and follow the steps that will appear on the screen.





Mini-Manual QUALICA-RD
Print Software

2. Home

This chapter explains how to manage a document, model or template, how to create or open an existing file and also how to retrieve a backup file.

Document - Contains all the data related to your work, including the chosen model or template, database connection, properties, encoding properties. In short, all the properties involved in creating a card.

Model - Contains all the characteristics and shape of your physical card. These characteristics are: size, card type, contactless, magnetic or smartcard. Note that the card setting will depend on the card chosen or the type of model created. For example, you will not have access to the encryption setting if you did not choose or create a card without that capability.

Template - is a document used to create a New Document of similar design. This means that you can use an existing template as is, change what you want, creating a New Document or template, from the open template.

Backup - automatically creates a backup file of the document each time it is saved. This copy is placed in ('Back-ups') with the name and date of creation.

This document can be retrieved as many times as you need.

Example:

```
documentname(yyyymmddTh  
hmmss).cardBackup
```

2.1 - Using Models

This software allows you to create a document in two different ways; using an existing template and creating your own template.

The first one only requires you to choose one of the different types of models that Qualicard has available.

But if you have a specific type of card template that is not there, Qualica-RD allows you to create it and that is another way to create a document, using a new card template.

Note that any model chosen will restrict access to the features of that model. If you open a "**Contact Smart Card**", the result will be a model of your "Contact Smart Card", where you will only be able to edit **Smart Card Settings**, and will not allow, for example, RFID settings.

2.1.1 - Create a new card

This tool guides you to create a new document using an existing template. You can start a creation by clicking on the "**Create**" button in the Welcome window.



Welcome Click Create
Or Click on 'File', 'New' (CTRL+N)



Then choose the type of card model.
They are organized into 8 groups:

Basic card models have no contacts, no processors and no internal memory. It is only for the printing of the plastic on the front and back.

Common card types are the most common card types used by most users.

Magnetic, this model allows you to encode the magnetic stripe. This means that you can print and encode your card at the same time or use an external encoder. These cards can contain secondary technology, such as RFID. Contactless is any type of card with an embedded IC that can process, store information and communicate with a radio terminal.

This type of model can be encoded with Qualica-RD. Using JavaScript language, you can program your card and perform card reading and writing.

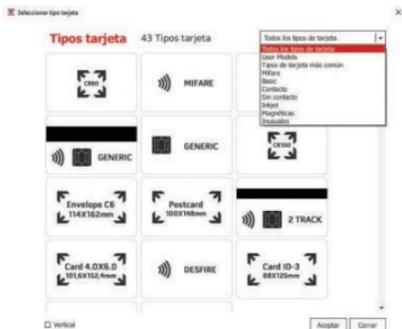
Mifare, allows you to read or write many sectors of the card. Using the JavaScript language you can connect the sectors to the database fields and update them automatically or simply write the data using the keyboard, where you can then print and encode it. These cards can contain other types of technologies.

Contact, a smart card, chip card, or **integrated circuit card (ICC)**, is one of the cards with an embedded IC.

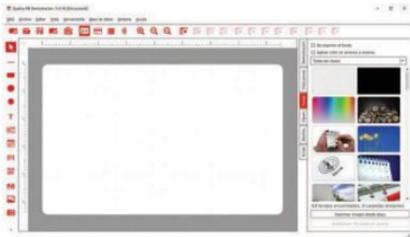
Qualica-RD has four types of models, I2C, JCOP (Java Card), SLE4442 and generic.

Unusual, Set of models used by the minority, developed for specific projects.

User Models, if you have some models in the **"My Models"** folder, they will be available in this group.



Then, choose the model, **'Click OK'** and you can start working on your new card. Or **'Click Close'** if you want to return to the inner window.



For your first design, please watch the video tutorial **'Create a Business Card'** and check it out.

Instructions on how to "Create Your Own Model" are available in the **complete manual**.

2.2 - Using templates

A template is a collection of styles that control the layout and appearance of the card. You can easily create your document using one of the many examples.

Qualica-RD provides these templates organized in categories, such as; **Test and diagnostic; Sports; Shopping; Schools; Loyalty; Clubs & Resorts; Business; Activities and Access Control.**

The templates cover a wide range of graphics and variable fields, all editable.

These professional templates are part of the software.

2.2.1 - Create from an existing template

To create a document from a template, in the welcome screen, click on **Template**.



Or Click on File menu, Open Template (CTRL + SHIFT + O)



In the dialog box, select an available template.



You can create a card based on a template and modify it without affecting the original template.

* You only need to burn the new card.



Instructions on how to create your own template are available in the full manual.

2.3 - Open your own document

In **Qualica-RD** there are two types of files, one is the one we create, called document, and one created by the backup software.

To better organize the documents, in the "Open" window, search for "Qualica-RD Favorites" and two folders will appear "My Recent Cards" and "My Cards" or alternatively you can choose the location of the file in "My Computer".

You can sort as the cards are displayed; Name, Descending, Modification date, Modification descending date. File size and descending file size.

In the lower right corner, you can find information on how many of the documents are currently displayed in the selected folder or the name of the current document.



2.3.1 - Opening an existing document

You can open an existing document to edit, change or even reprint it. Existing cards are saved last.

The first step is to locate the document you want to open. Click on Open on the welcome screen, or from the file menu.

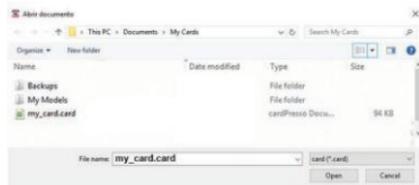
Click Open File (CTRL + O)

Scan and locate card with **Click OK.** extension .card.



You can also open the file directly from Windows by double clicking on it in Windows Explorer.

Instructions on how to retrieve your document are available in the full menu.



Select the file extension, otherwise it will not be ready. **Click on Open.**

3. - Design

The definition of design is the creation of a conversion plan on the construction of an object (such as architectural plans, engineering sketches, business processes, circuit diagrams and sewing patterns). Designing has different connotations in different fields. In some cases the direct construction of an object (such as in pottery, engineering, management, graphic design) is also considered to be designing.

3.1 - Workspace

In Qualica-RD you can customize the work area as you wish. You can reposition the menu bars or you can see or hide the properties.

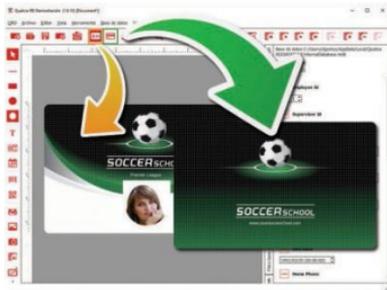
On the View Menu, you can set options that allow you to change the working area.

Toolbar

Here you can select all the utilities from the quick access bar that will be available in the workspace.



Choose between front and back.



Choose the database view.



Select the coding view.



3.2 - Document properties

When you open the document view, the first thing you see is the work area and on the right side the basic properties of your document

Background - Each layout can have only one background. You will be able to access the Qualica-RD funds library, using the Funds tab.

To apply a background, just from the list of backgrounds and it will be applied immediately. You can also adjust the background using an image.



Clipart - You can access them using the Clipart tab. They can be used as an image object, part of the card creation, or as a background. Only the background color of the object can be changed.



Layout - When you design a card, you are building a document that can have many layouts.

The flap offers a quick way to manage all possibilities on your card.



Script - The Script tab allows you to write your own scripted commands, based on the ECMEAScript language. This is the way to extend the numerous features offered by Qualica-RD. It also allows you to interact with other software, using the output in the document. It has three different kinds of script tables, one for each object, one for the document and one for the coding; three different ways to expand the capabilities of Qualica-RD.



1 This expandable menu allows you to define the location of actions and procedures.

2 And in the space below you can type the command line.

3 To view the log, change the tab below.

3.3 - Object of the document

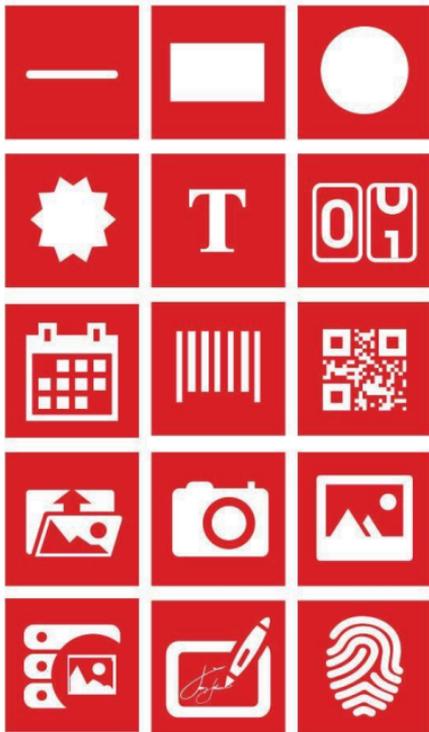
These objects are the most important features of the document creation process. There are two major types of objects, static and dynamic.

The first class refers to objects that will never change during the creation or data entry process, such as backgrounds and shapes.

The second type can be static or variables. Static in a simple keyboard input, but they become variables when we navigate through different records connected to a database.

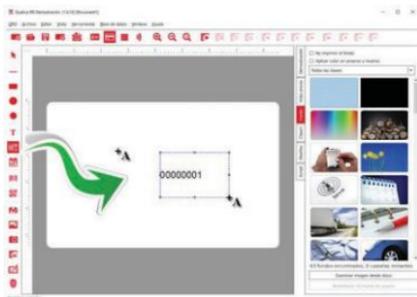
Objects can be placed in the card space, on the front or back, and can be arranged as desired.

There is also a set of object-specific settings that you can use according to your specification, such as color, size, font, among others.



All these objects can be placed on the card.

3.4 - Object properties



Qualica-RD has space properties, it is displayed on the right side of the screen and can show a group of grouped tabs. To change, click on an empty space in the tab and review the options.

These flaps change depending on the object we are handling in the work area.



3.4.1 - Item

The item tab allows you to define the ID, group and visibility of an object.

Elemento	
Identificación	<input type="text" value="ITEM_2AFA19EC"/>
Grupo	<input type="text"/>
Opciones	<input type="checkbox"/> Protegido
Imprimir	<input type="text" value="Sí"/>
Opacidad	<input type="range"/>
Capa	<input type="text" value="Diseño"/>
Posición	<input type="text"/>
Forma	<input type="text"/>
Alineación	<input type="text"/>
Rotación	<input type="text"/>

Object ID - Defining the object ID not only helps to organize the data in the document, it also allows you to more easily identify an object and assists in coding tasks.

When manipulating a database, you can use an ID to identify the objects that will help you while programming a script.

Design not allowed - Check the 'Design not allowed' box protecting the object that was changed, but only the graphical appearance and the drag and drop position.

This option is applied to all objects.

Do not print - Check this option when the object is not supported for printing on the card.

Opacity - You can also define the opacity level of the object, with the opacity button, from 100% (default) to 0%.

3.4.2 - Position

In this tab you can manually position the actual position when moving or resizing objects on the design board.

Elemento	
Posición	
X	9 mm
Y	10 mm
Ancho	29 mm
Alto	12 mm
Forma	
Alineación	
Rotación	

The same properties apply to resized objects, allowing you to manually change the height and width of objects very precisely.

3.4.3 - Shape

This option allows you to change the visual properties of an object by setting the visible part of the object to three different shapes, circular, rectangular or cylindrical.

Elemento
Posición
Forma

Alineación
Rotación
Perfilear

It is similar to hiding an image behind a layer with a hole in the middle and the shape of that hole defines the visible part of our image, as shown below.

For example, if you choose a circular shape, the area of the photo that remains is the area that is contained within it.



To define cropping and formatting, you only have to define the image margins.

3.4.4 - Rotation

In this tab you can rotate or define the rotation of the object, select more than one object and apply the rotation to all selected objects.

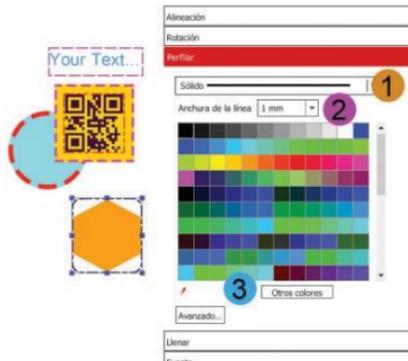


- 1** Qualica-RD has rotation buttons, 0, 90, 180 and 270 degrees. You can rotate the sketches to 45 degrees.
- 2** If you wish to apply a more specific rotation, use the available design box.
- 3** Or turn the round knob to select the desired angle, updating the angle in the toolbox at the same time.

All these changes are seen in real time on the object.

3.4.5 - Contour

The Contour allows you to select from five predefined line types and to customize one.



- 1** In the drop-down box you can choose the type of object outline.
- 2** The line width can be changed from 0.1mm to 10mm.
- 3** You can also change the color by clicking on the colors or by getting another color using the drop-down or using the **'More Colors'** button.

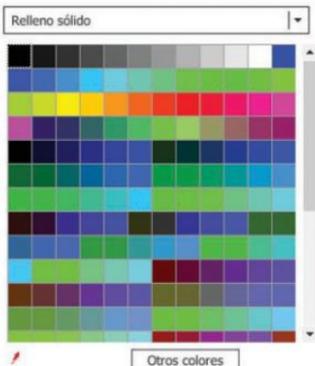
3.4.6 - Filling

Define the fill color to be applied to the object, and for lines, rectangles, circles, the color of the object will change. In other cases it will change the background.

No fill: No color is applied to the object. This option is used when using text on objects.

Solid Fill: Fills the area with a color and you can define the color using the classic palette or using the advanced palette within the "More Colors" button.

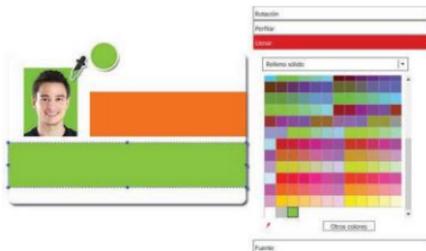
Rotación
Perfilear
Ulenar



Fuente
Fuente
Script

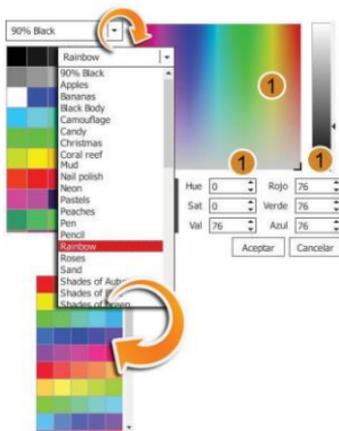
Gradient fill: Allows you to place a second color and make a gradient effect with both colors and define them using the standard palette, the eyedropper or by clicking on "More Colors" using the advanced palette.

Eye dropper: You can use any color, even outside the soft. After the color is applied to the object, it is added to the color palette.



More colors: Advanced color palette.

Basic color palette color chart: To choose colors from the palette use the drop-down menu and the palette will automatically display the colors from the chart.



Unusual color: In case you want to add an unusual color, you will have two ways to do it; dragging the focus to the panel, or entering the value directly.

3.4.7- Source

When you select the 'Source' tab, you can use tools to define the source of the object.



1 Family Font - You will be able to choose the font type, which you have in your operating system.

2 Point size - allows you to define font size. Note in the options, that the size is determined by the available space between boundaries. To change, drag and drop the selected one.

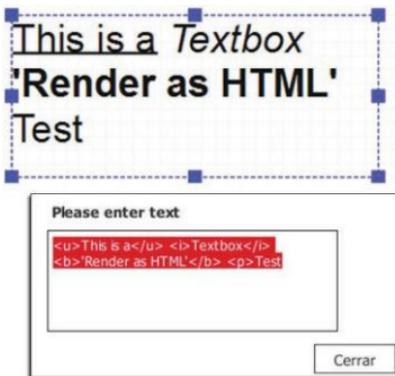
3 Color - Choose the color of the font.

4 Typeface - Best defines the font.



5 Line Fitting - Allows you to fit the phrase to the object.

5 Make as HTML - Allows to use some HTML codes in the text, to change the font inserted in the text field.



3.4.8 - Bar codes

The barcode properties allow you to define the type of code to be used.

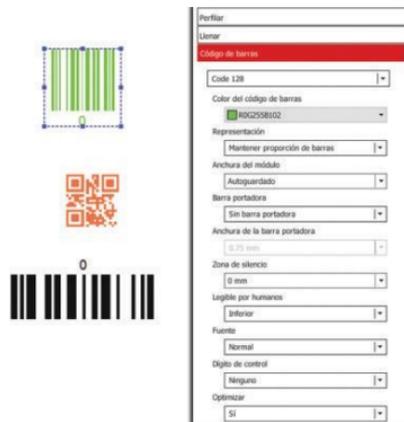
Either 1D or 2D.

Type: Choose the type of code you want.

Color: Defines the color of the code

Human Read: Defines whether data is read, alphanumeric or printed (1D barcode only).

Source: Defines the source of the readable data (1D barcode only).



3.4.9 - Image

You can load images from any storage location, from HDD, database, cameras or even from a scanner. After selecting an image and applying it to the work area, you can access a new image tab. In this tab you can change the following properties:

Keep ratio: Allows you to adapt the image to the limits of the card or to keep the image size.

Reinforce black: It will use resin (K) for that image.

Flip Horizontal: Rotates the object horizontally, from right to left. Maintains image dimension and quality.



Flip Vertical: Rotates the object vertically, from base to ceiling. Maintains dimension and image quality.

Grayscale - Applies a grayscale to the image.

Chroma effect - Enables or disables the effect in which a higher color range is made transparent, revealing another image behind it.

Color - Allows you to choose a color on which the effect will act. Use the eyedropper to choose any color from the image.

Tolerance level - allows changing the tolerance level of the effect. The higher the tolerance, the wider range of colors is covered by this effect.

Area effect - Select the area of the image affected by the effect.

Double click on the image to open the editor with more editing tools.

3.4.10 - Origin

The origin tab allows you to define the origin of the object and the parameters.

In text boxes and barcodes, the source can be an impression counter, a date, a database or a link.

In the image or signature object, the source can be the HDD, a camera or scanner, an image editor, a database field, or a link.

Imagen

Fuente

Desde el disco
Desde el disco
Desde una cámara o escáner
Desde tableta de firma
Desde el dispositivo de biométrica
Desde editor de fotos
Desde la base de datos
Enlace del elemento

Actualizado

Cuando se hace doble clic en el elemento

Guardar con el documento

Sí

Formato

Imagen de formato libre

Detección facial

No

Abrir editor de imágenes

Only when error

3.4.11 - Alignment

The alignment tab allows you to define the alignment of the object boundaries.

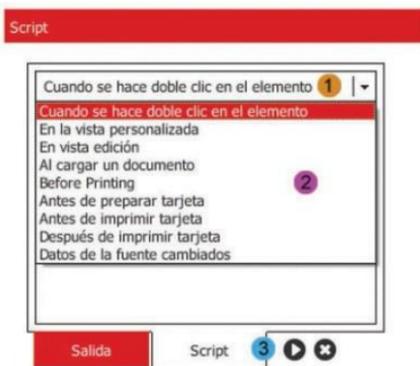
You can define it vertically from top, centered or bottom, and horizontally from left, centered, or right.



When the point size is set to auto-metric, on the front flap, it means that the font size justifies the text within the limits that make the horizontal adjustments too small.

The default position is left and centered.

3.4.12 - Script



There are two different scripts in Qualica-RD, one for each object and one for the document. In this chapter we cover the object script.

The advanced user can program actions and procedures in Javascript to perform advanced operations, such as updating object data and modifying objects.

1 This expandable menu allows you to define when actions or procedures should occur.

2 In the space below you can write the line of codes.

3 To view the software output logs, change the bottom tab to

3.5 - Edit view

The Edit View is a very simple and powerful database alternative, which in the XXS version you will be able to keep more than ten records and manipulate them as you wish.

The Edit View is available from the basic version, the XXs, allowing you to have a first contact with Qualica-RD capabilities and the database, and if you do not need more than ten records or do not know how to work with database, the Edit View will be your solution.

All records are saved inside the created document, so you don't have to worry about attachments or other files. You can use a template or create a new card.

The Edit View allows any type of field to be searched in any database, text, date, numbers and images.

Using a template:



We will have three objects to work with, name, position and photo.

Click on Name, for example, and on the Source tab, Update option, choose 'In edit view'.

Then the new tab is available, the design view tab.



Very similar to the database tab, with the top command buttons, ready with its Name field.



- 1 Go to the first record.
- 2 Go to the last record.
- 3 Go to the next record.
- 4 Go to the previous record.
- 5 Delete the current record.
- 6 Add a new record.

It is possible to have names to the objects, position and photo, and it will be easier in the future to identify the items.

To add other objects to the editing view, the process is the same, select the object, go to the source tab, and in the Update option, choose "Design View".

It is possible to add more records by filling in the fields in the tab, Edit View, up to a maximum of 64 records (only 10 in the XXS edition).

4. Database

A database is an organized collection of data. A database is organized by relevant aspects of processes that require the information.

This chapter explains how to connect to the database through the software and how to use it to your advantage.

4.1 - Connection

In Qualica-RD there are two ways of connecting to the Database.

One way is to click on the **Connect to Database** icon in the toolbar.



The other way is by selecting **Connect** in the **Database** menu.



4.1.1 - Driver Configuration

Depending on the edition of Qualica-RD, many forms of database are available.

XXS has only an internal database, accessible from the edit view (**chapter 4.5**).

XS supports Direct CSV & TXT File Driver, allowing only to read the fields of these databases. Editing records is not possible through Qualica-RD.

With Direct Excel File Driver you can edit fields and records through the software.

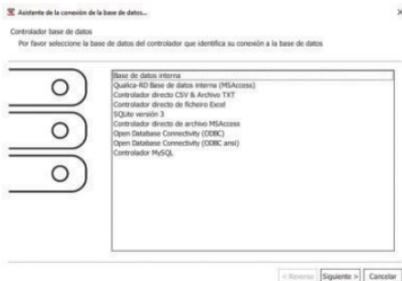
With these drives it is also possible to add links to images and their folders.

XM allows you to connect to SQLite version 3 and Direct MS Access File Driver. From here you will be able to alter tables, records and enlarge images as binary files.

Qualica-RD's internal database (msAccess) is available in this issue.

XL adds ODBC Drivers and allows you to connect any database with ODBC Support, such as: SQL Server; Oracle; MySQL; and others.

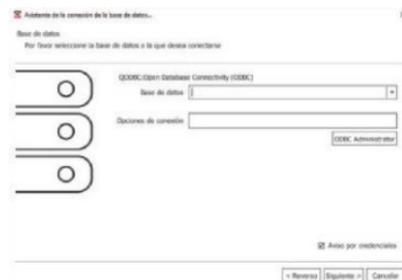
After selecting the Driver you can select or browse the Database.



In this manual we will focus on Qualica-RD's internal database. Instructions on how to configure each connection can be found in the complete manual.

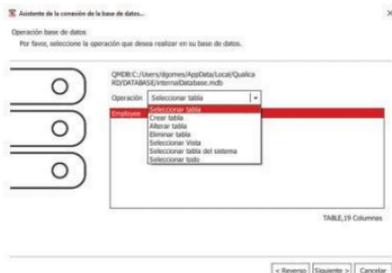
4.1.1.1 - Direct MS Access Driver

Since the information is stored in the MS Access and SQLite database, it has changed its format, and you will not have to reconfigure it, nor select anything special. Just browse or select the database and open it.



4.1.2 - Use of Database

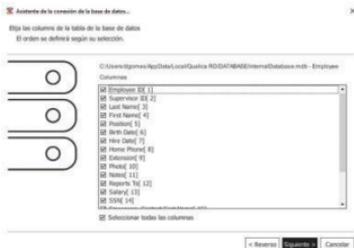
The use of the database is an important function from the XM edition onwards. When using the Database, it is possible to select, create, alter or hide custom tables.



With CSV, TXT and Excel Databases there are no multiple tables, just selecting the file will suffice.

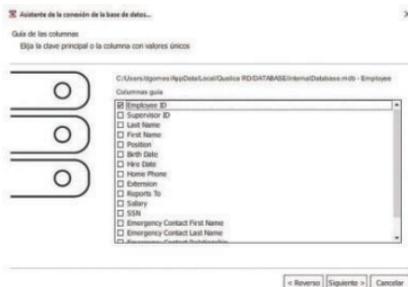
4.1.3 - Columns and tables

In this part of the Database connection it is possible to select which columns to use from the selected table.



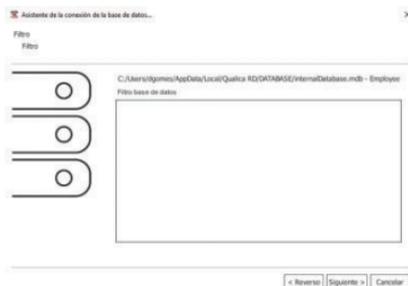
4.1.4 - Guide to columns

The guide functions as an index to the database.



4.1.5 - Database Filters

With the filter you can add conditions that will be displayed from the database. These conditions have to be written in SQL Script without selecting the "select where".

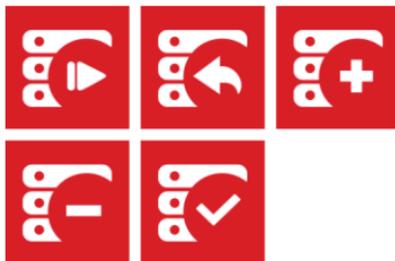


4.1.6 - Order Columns

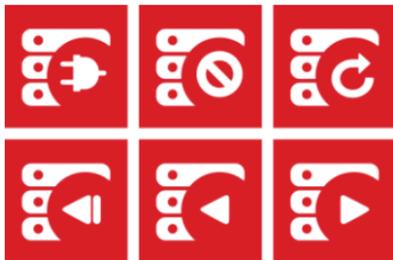
You can change how the database is displayed in **Qualica-RD**.

The organizational rules used are:

Empty fields. Then the number fields, from the lowest value (0) to the highest (± 9), followed by the fields in alphabetical order.

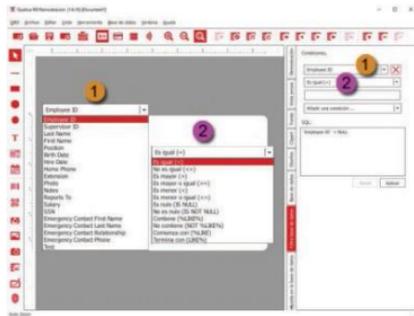


4.2 - Toolbar



4.3 - Database

Database fields can be added to the card layout via drag and drop. These objects will be connected to the database field and updated when the field is changed or moved between records.



This filter works as a SQL Query and the same options are available as in the database search with the possibility of search with multiple rules and custom script.

It can also be used to generate the Script for the filter in the connections field.

4.4 - Search & Filter

The Database search tab makes it easy to search for specific records.

This can be achieved by selecting a column and a condition, and inserting a keyboard entry or a value in the text field to complete the action, will allow you to filter only the records where that condition appears.

