

Installation Guide



CALIBRE

Visual Factory Calibre 26

ELECSOFT S.L.

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CHAPTER 1

Introduction

This guide is primarily intended for those responsible for installing the application on the computers where it will be used.

Documents of interest

In addition to this Installation Guide with the application, the following documentation is provided:

Note: You will find all additional documentation in the Documents folder of the media used for installation.

Reference Manual

Provides detailed information on each of the capabilities of Visual Factory Calibre.

Calibration Guide

This guide is intended to help the user design the Calibration Plan. This document includes the following chapters:

- References to national and international standards related to calibration and verification.
- Elements involved in the Calibration Plan.
- Calculation of uncertainty.
- Datasheet formats used by Visual Factory Calibre.

Visual Factory Calibre Expansion Modules

Along with the user manual of the main functionalities of the application are the specific manuals of the extensions available in Visual Factory Calibre.

These extension modules are:

- Access by department and location. It allows you to configure access to computers for each user depending on the department and/or location (organization and section) they belong to.
- Location registration. Keep the history of inputs and outputs to the warehouse of each of the equipment.
- Control by use. It allows you to check the equipment for days of use. Use the Location Management module to control how long a team is operational.
- Entrances and exits to the laboratory. Records equipment inputs and outputs to the lab from production, and internal lab inputs and outputs to external labs for external calibration.

- Email notifications. It allows you to configure notifications that will arrive by email to different users, depending on the department or section associated with each team.
- Generation of PDF certificates. Automatically make a copy of the certificate in PDF. This module is a must-have for the Visual Factory Calibre WEB query application.
- Approval cycle. It allows you to define an editing, review and approval cycle for each of the controls carried out.
- Digital signature. Allows certificates to be signed using a digital signature based on a certificate from a CA (Certificate Authority)
- Management of equipment, instruments and ties. Differentiation of the teams according to these concepts.

Visual Factory Application Framework

This manual is common to all Visual Factory applications. It explains all the functionalities that are common to all programs.

In this manual you can find:

- How to change the literals that appear in the application.
- How to define views to present the information of the different modules according to your needs. When you define a view you can: filter the information, sort it, group it, change the format, define the printing conditions...
- Define the subviews that contain the detail of the different records of the application. For example, define the detail that appears within the historical results in a team card.
- Define users and manage their permissions.

Visual Factory Reports

This manual is common to all Visual Factory applications. It explains in detail and at a general level how the report designer integrated with the application works.

CHAPTER 2

Installation

This chapter specifies the minimum requirements to be able to install Visual Factory Calibre and explains how you should install the application on your computer.

Minimum Installation Requirements

Before installing, verify that the computer where you are installing the application meets the following minimum requirements:

- Pentium 2-core processor or equivalent
- 4 GB RAM
- 200 Mb free on the hard drive.
- 1280 x 1024 screen. 1920 x 1080 is recommended.
- Windows 10 or 11 64-bit operating system.
- Microsoft Excel 2016 or higher (includes Microsoft 365). As of January 2026.
- MS SQL Server 2016 to 2025.
- MS .Net 6.2 or superior.

When you install, you must install with machine administrator rights.

Installation

You will find the installation program in the VFCalibrex.yy.zzzz\VFCalibrex folder (x represents the main version number and yy.zzzz the subversion number) of the installation device (USB or unzipped zip file folder).

On the one hand, you have to install the application on each of the computers where you are going to use it and on the other hand you have to install the database.

The first installation is usually carried out by Elecsoft together with the customer's IT department.

To perform the installation you must complete the following steps:

Preparing the Database on the SQL Server

The tasks to be performed on the MS SQL Server are:

- Make sure that our MS SQL Server allows mixed security, that is, that we can access a database by username and password.
- Create a login

Inicio de sesión - Nuevo

Seleccionar una página

- General
- Roles del servidor
- Asignación de usuarios
- Elementos protegibles
- Estado

Conexión

Servidor: PC-029

Conexión: ELECSOFT2\JuanRodriguez

[Ver propiedades de conexión](#)

Progreso

Listo

Nombre de inicio de sesión: vfc calibre

Contraseña:

Confirmar contraseña:

☐ Especificar contraseña anterior

Contraseña anterior:

☐ Exigir directivas de contraseña

☐ Exigir expiración de contraseña

☐ El usuario debe cambiar la contraseña en el siguiente inicio de sesión

☐ Asignado a certificado

☐ Asignado a clave asimétrica

☐ Asignar a credencial

Credenciales asignadas

Credencial	Proveedor
------------	-----------

Base de datos predeterminada: master

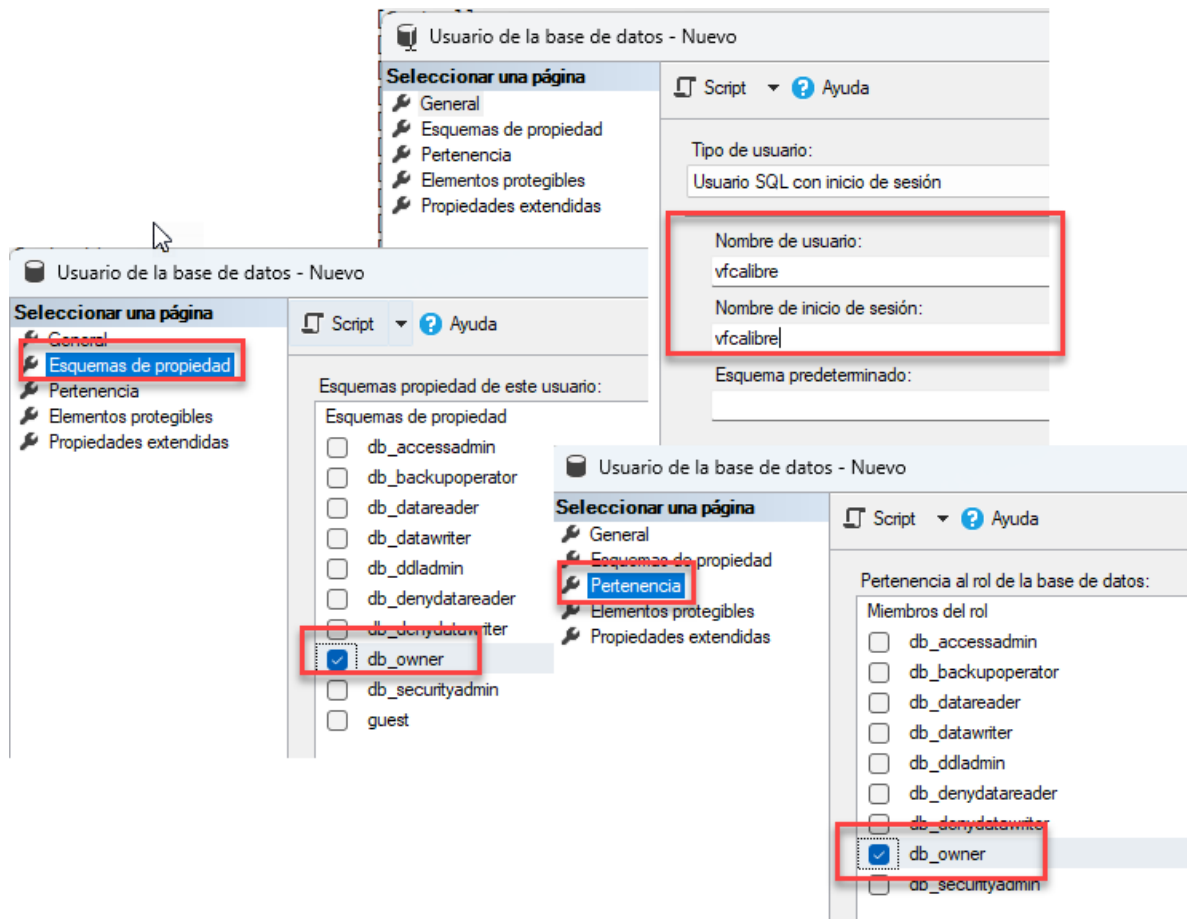
Idioma predeterminado: <predeterminado>

Aceptar Cancelar Agregar Quitar

Note: We recommend that you turn off the Enforce password policies check to avoid password change enforcement issues.

This login is what we will use to create the databases we need.

- If it is a new customer or one that does not come from a migration, create an empty database. For example, VFCalibre_NombreEmpresa. On the contrary, restore the database migrated by Elecsoft.
- Create a user using the previously created login. It is recommended that you give the same username as the login name. The settings are displayed on the following screens:



Creating a Scheduled Database Backup Task

Here's how to create a scheduled task for database backups. Elecsoft will offer all possible help, but it will be the responsibility of the IT department of each company.

Note: To perform this scheduled task, SQL Server must be installed.

Create a script, file, .sql, like the following:

```

backup.sql
Archivo  Editar  Ver

BACKUP DATABASE [VFCálbre23_...] TO DISK = N'C:\Elecsoft\Backup\VFCálbre23_NombreEmpresa.bak' WITH NOFORMAT, INIT, NAME = N'VFCálbre23_NombreEmpresa-Completa Base de datos Copia de seguridad', SKIP, NOREWIND, NOUNLOAD, STATS = 10
GO
  
```


Copy text replacing the yellow highlight:

```

BACKUP DATABASE [VFCálbre_NombreEmpresa] TO DISK =
N'C:\Elecsoft\Backup\VFCálbre_NombreEmpresa.bak' WITH NOFORMAT, INIT, NAME =
N'VFCálbre_NombreEmpresa-Completa Database Backup', SKIP, NOREWIND, NOUNLOAD, STATS = 10
GO
  
```

Open the Task Scheduler and Create Basic Task:

Asistente para crear tareas básicas

 Crear una tarea básica

Use este asistente para programar rápidamente una tarea común. Para obtener más configuraciones u opciones avanzadas, como desencadenadores o acciones de varias tareas, use el comando Crear tarea del panel Acciones.

Crear una tarea básica


Desencadenar
Diariamente
Acción
Finalizar

Nombre: CopiasCalibre

Descripción:

< Atrás **Siguiente >** Cancelar

Asistente para crear tareas básicas

 Desencadenador de tarea

Crear una tarea básica ¿Cuándo desea que se inicie la tarea?


Desencadenar

Diariamente
Acción
Finalizar

☒ Diariamente
☐ Semanalmente
☐ Mensualmente
☐ Una vez
☐ Al iniciarse el equipo
☐ Al iniciar sesión
☐ Cuando se registre un evento específico

< Atrás **Siguiente >** Cancelar

Asistente para crear tareas básicas

 Diariamente

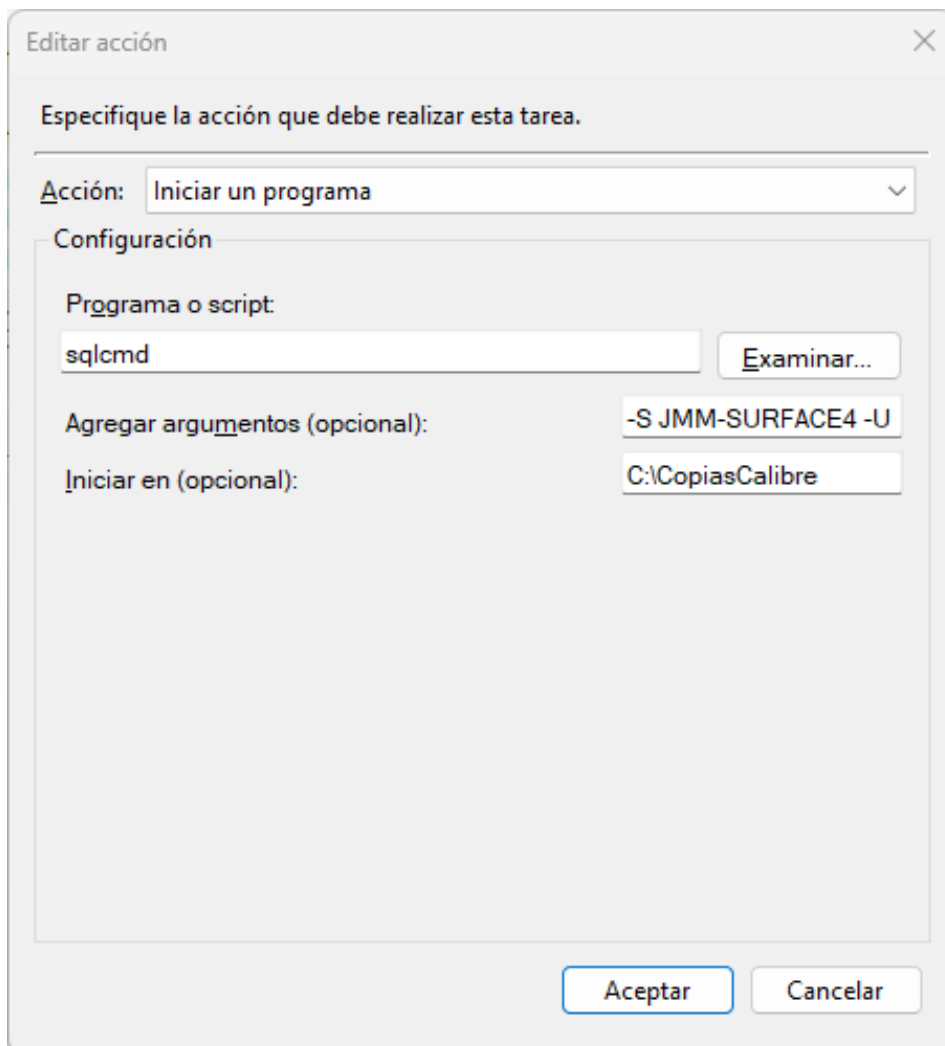
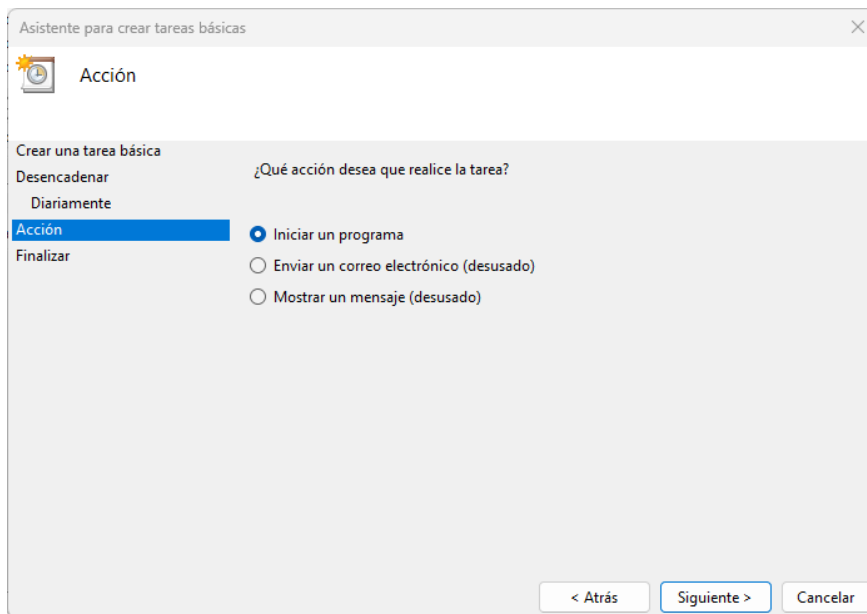
Crear una tarea básica Inicio: 24/05/2024 22:00:00 ☐ Sincronizar zonas horarias

Desencadenar

Diariamente Repetir cada: 1 días

Acción
Finalizar

< Atrás **Siguiente >** Cancelar



In Program or Script:

Typing "sqlcmd"

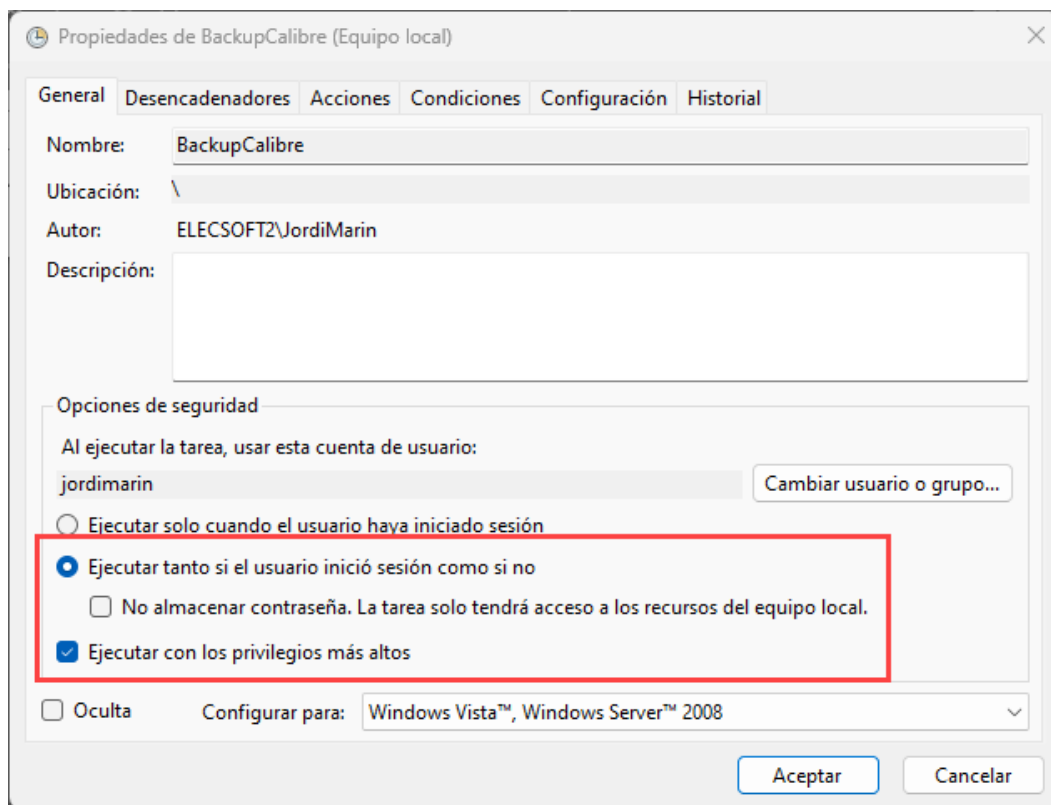
In Add Arguments, indicate the following:

-S **ServerName** -U **SQLUserName** -P **SQLUserName** -i **FileName**.sql -o **Output**.txt

Under Start at: **path where the file is .sql**

Possible incidents:

1. *If you want to have the backups in a network folder, sometimes the task does not work and you have to generate the backup locally and then do a scheduled task to copy it to the network (IT's responsibility).*
2. If when trying to execute the task it does nothing, it could be due to the permissions of the user who is launching the task. It is better to tell you the following:



Creating the License Directory

The licenses you purchase from Visual Factory Calibre are concurrent. This means that you can install the application on as many computers as you want, but only as many users as you have purchased licenses can access it simultaneously.


To manage the number of licenses you are running simultaneously, you need to create a shared directory on the same server where Microsoft SQL Server is located.

First, you need to create the share for the ELECSOFT folder, and then create the LICENSES directory within the same resource.

The user using Visual Factory Calibre must have read and write permissions on this directory.

The information necessary for license control will be stored in the \\<Server Name>\ELECISOFT\LICENSES directory.

Install Visual Factory Calibre

1. Select the VFCalibrex.yy.zzzz\VFCalibrex folder on the installation device.
2. Click on the installation app icon:  VisualFactoryCalibre26.Setup.exe.

To advance in the installation click on the **Next button** and to return to previous steps of the installation click on the **Previous button**.

Once the installation is complete, a shortcut is automatically created on the desktop.

Modify the configuration file

In the folder where the application has been installed, you will find the configuration file VisualFactoryCalibre.Win.dll.conf_i_.

If you didn't have the file from a previous installation previously configured, rename it to VisualFactoryCalibre.Win.dll.config.

You must indicate at least the following points:

```
<connectionStrings>
  <add name="ConnectionString" connectionString="Integrated Security=false; Pooling=false; Data
Source=NombreDelServidor; Initial Catalog=VFCalibre_NombreEmpresa; User ID=NombreDelUsuario;" />
</connectionStrings>

<appSettings>
  <add key="Modules" value="" />
  <add key="NewVersionServer" value="" />
  <add key="EnableDiagnosticActions" value="False" />
  <add key="PasswordEncriptado" value="PasswordEncriptado" />
  <add key="AdditionalDatabases" value="" />
  <add key="eXpressAppFrameworkTraceLevel" value="3" />
  <add key="TraceLogLocation" value="CurrentUserApplicationDataFolder"/>
  <add key="UserModelDiffsLocation" value="CurrentUserApplicationDataFolder" />
  <add key="Culture" value="" />
  <add key="Languages" value="es; es-ES" />
</appSettings>
```

The EncryptedPassword is the one indicated when we have created the login. Elecsoft offers a utility to encrypt this password. The usage is located in VFCalibrex.yy.zzzz\EncryptPassword of the installation device.

Here are some other parameters that you might not set if you don't require them:

The UserModelDiffsLocation allows you to indicate a path other than where it was installed to store temporary information about the user using the application. This can be useful when there are permission issues in the folder where it has been installed.

The Culture allows you to indicate the regional culture used by the program, regardless of the one configured in the operating system. For example, value="es-ES" would be for Spain, value="en-US" for American English.

Optionally, you can specify more than one database that you can then select when logging in. In AdittionalDatabases you can specify additional databases separated by a ";". For example:

```
<add key="AdittionalDatabases" value="VFCalibre_Base1; VFCalibre_Base2" />
```

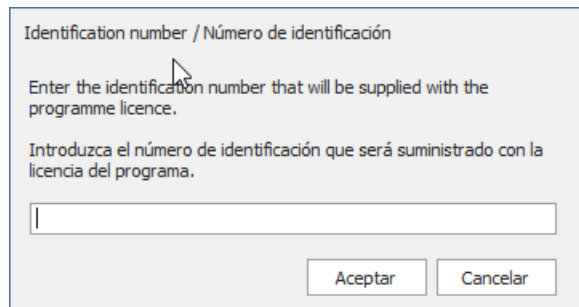
Additionally, this parameter will be used for importing data from one database to another.

Note See User Manual section Tools - Import on the page. 107

Important:The database indicated in the <connectionString> section will be the main database and will contain the parameterization. The other additional databases will need to be located on the same instance of SQL Server and with the same user.

Launch your app for the first time

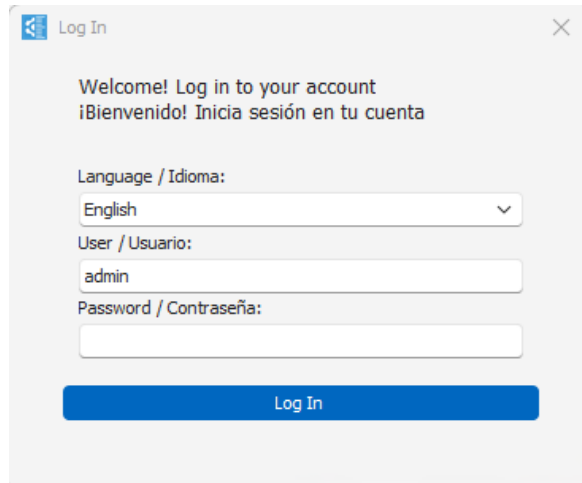
The first time the application is launched, it will ask for the identification number that includes the license and active modules:



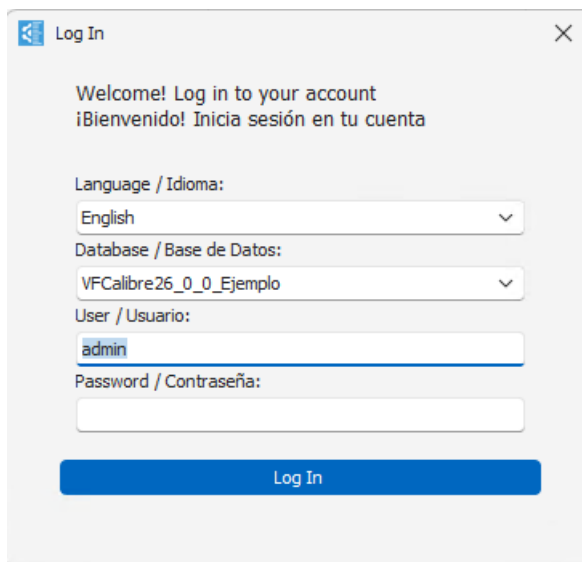
This will ask you only the first time you access the program and from the first computer you run. Then, if the application is installed on other computers, it will not ask for it again.

After this, the application will ask for the user data to enter the application.

If we have a single database defined:

A screenshot of a mobile application's login screen titled "Log In". The screen displays a welcome message in English and Spanish. Below the message, there is a language selection dropdown menu currently set to "English". Underneath, there is a text input field for the username, which contains the text "admin". Below the username field is an empty password input field. At the bottom of the form is a blue button labeled "Log In".

If we have several databases defined:

A screenshot of the same mobile application's login screen, but with an additional dropdown menu. This menu, labeled "Database / Base de Datos:", is positioned between the language and username fields and is currently set to "VFCalibre26_0_0_Ejemplo". The username field still contains "admin" and the password field is empty. The blue "Log In" button remains at the bottom.

On this screen we will be able to select the language and the database (if we have defined several) among those available and indicate our password.

When the app is first launched, the following operations are performed:

- The basic structure and data of the database is created.
- A user is created with the code indicated on the Login screen and with a managed profile. This user will be in charge of adding new users.

Note: When other users enter the application without being defined, it also creates them, but with a profile that does not have any permission.

Automatic version update

First of all, check that the configuration file has the following line defined:

```
<add key="EnableAutomaticDbUpdate" value="true" />
```

Process for upgrading:

- Back up the database.
- Uninstall the program on your PC and install the new version.

In this case, when the user starts the application, the database version will be updated.

Manual version update

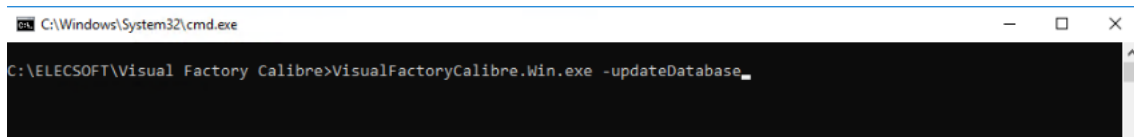
This is the default procedure if the above parameter is not enabled.

Process for upgrading:

Note: This process will only be done by the person responsible for VFCalibre and will only be done once to update to a new version.

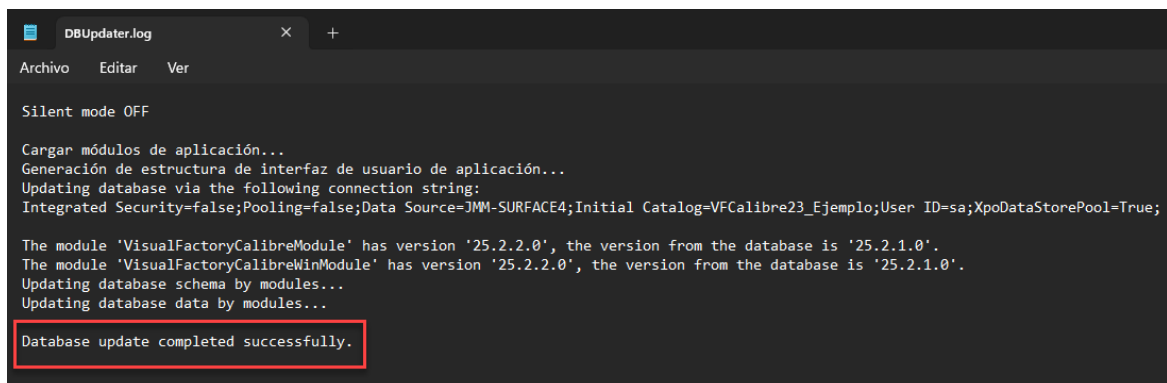
Back up the database

- Uninstall the program on your PC and install the new version.
- From the command line (command prompt or "cmd") go to the folder where the program is installed.
- Run the following command: VisualFactoryCalibre.Win.exe -updateDatabase



```
C:\Windows\System32\cmd.exe
C:\ELECTSOFT\Visual Factory Calibre>VisualFactoryCalibre.Win.exe -updateDatabase_
```

- Check that it is updated correctly by checking the DBUpdater.log file that has been created in the same folder where it is installed:



```
DBUpdater.log
Archivo  Editar  Ver

Silent mode OFF

Cargar módulos de aplicación...
Generación de estructura de interfaz de usuario de aplicación...
Updating database via the following connection string:
Integrated Security=false;Pooling=false;Data Source=JMM-SURFACE4;Initial Catalog=VFCalibre23_Ejemplo;User ID=sa;XpoDataStorePool=True;

The module 'VisualFactoryCalibreModule' has version '25.2.2.0', the version from the database is '25.2.1.0'.
The module 'VisualFactoryCalibreWinModule' has version '25.2.2.0', the version from the database is '25.2.1.0'.
Updating database schema by modules...
Updating database data by modules...

Database update completed successfully.
```

- Check that you are entering the application with the new version.