

CODE:AERO TECHNOLOGIES

# **Password Memory 7**

## **User's Guide**

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## Password Memory 7

*Securing your passwords has never been easier.*

**P**assword Memory is the latest in a row of popular products from Code:Aero Technologies. Our products are known for their many powerful functions yet being extremely easy to use.

Password Memory 7 is no exception. We decided to create this new product when we found that similar products on the market didn't even have the most basic functionality you would expect.

Our aim was to create a fast product that would let you search, sort, and manage your passwords in a secure environment. Not only that, we also want to bring this product to you in your native language. That is why Password Memory comes with several different languages and more will be added with time.

### How secure is Password Memory?

Password Memory is one of the only password managers on the market using a solid, secure client/server database engine. This ensures stability and ensures performance no matter how big your database grows.



This database is secure but the passwords are also stored using three different encryption methods (with a strength of 256 and 128 bits).

You only need to keep track of one password when using Password Memory, the password to your password database. It is important, however, to make this password secure yet to remember it, since there is no way to access your passwords without it. Read more about secure passwords later in the **Secure Passwords** chapter.

The program also let you copy the username and passwords to the Windows clipboard to bypass possibly installed "key-loggers".

Password Memory can also be installed and executed on a USB memory stick so you can bring your passwords with you everywhere you go and have them available in a secure manner.

## Installing Password Memory

Password Memory is officially supported on Microsoft Windows 10, 8, 7, Vista and XP.

We recommend that you download the latest version of Password Memory from our website [www.codeaero.com](http://www.codeaero.com). That will ensure you get a stable product.

To install the product, double-click **pm\_setup.exe** (note that the filename may vary depending on the download source). This will start the installer and on the second page of the installation wizard you can choose where to install Password Memory. We recommend that you use the default installation location.

The next page enables you to change the name and location of the Start Menu folder. For simplicity we recommend you keep the default here too.

On the last page of the installer you can choose if you want to add Password Memory icons to your desktop and Quick Launch bar.

### **Installing to a USB Stick**

Password Memory can be installed on a USB memory stick. You can insert the stick on any computer, run the program from the stick and have your password database available yet secured.

Password Memory will automatically determine if it is installed on a USB stick and go into external mode. This means the database and program settings will be stored on the USB stick too.

To install to a USB-stick, run the installer as usual but change the installation destination folder to a folder on your USB-stick. You can then choose not to create a start menu folder (if you won't be running the program frequently on the computer used to install the program to the USB-stick).

When the installation is finished you can run the program from the USB-stick by browsing to the installation folder and double-clicking **keynote.exe**.

## Running Password Memory for the first time

Start Password Memory by choosing the Password Memory shortcut from the Windows Start Menu.

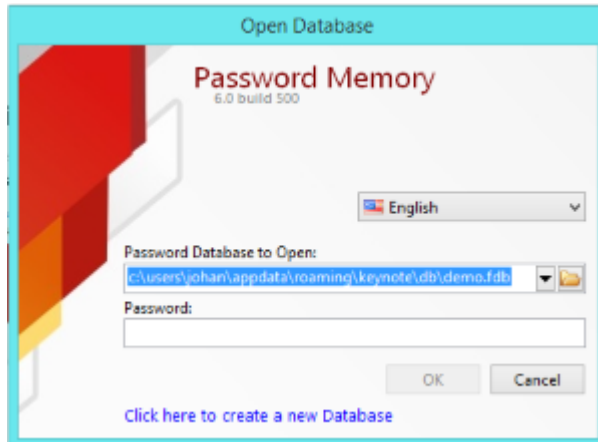


FIGURE 1. This is the Open Database dialog where you choose the password database to open and supply the password to open it. New databases can also be created by clicking the link labeled “Click here to create a new Database”.

The logon (or Open Database) dialog is the first program dialog to appear and this is where you create your first database. Start by choosing the language of your choice. The default language used in the application is English.

To create a new database, click the link labeled “**Click here to create a new Database**”. This will open a new dialog where you can create your first password database.

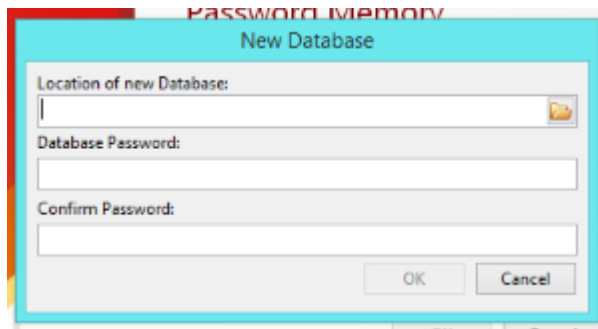


FIGURE 2. The New Database dialog enables you to create a new database.

### Create a New Database

The first thing you need to do is to choose the location of the new database by clicking the “...” button. This is where your password database will be stored.

#### Note

Windows 10/8/7/Vista will not allow you to create files everywhere (if not in Administrator mode). So we recommend you **not** to create your database in the Program Files folder or in the root directory.

After the path and filename has been chosen, a password needs to be assigned to the database. This password is the one password you need to remember to access all your other passwords contained in the database. Make sure this password is secure (read more about secure password in the **Secure Passwords** chapter).

*Also make sure that you remember this password because there is no way to access your database without it. Not even staff at Code:Aero Technologies can retrieve your password for you. You need to type the password twice to verify that it is not mistyped.*

Finally click the **OK** button to create the new database and close the New Database dialog.

### Logging in to your Password Database

The last used database will automatically appear in the “**Password Database to Open**” field. If you want to open another password database; click the “...” button the first time you open it. You can then click the drop-down button to switch between your databases.

When the database you want to open is selected, type the password in the field labeled “**Password**”. Finally click the **OK** button to login and open the database. If the wrong password is entered; an “Incorrect Password” dialog will appear.

## Switching sections

Password Memory consists of two sections: passwords and credit cards. You switch between the sections by clicking the tab headers just above the data view.

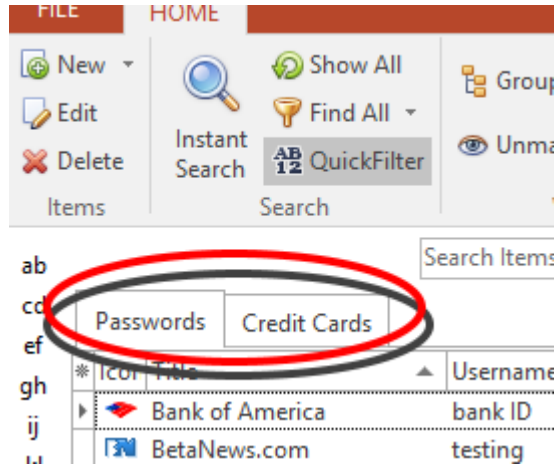


FIGURE 3. Switch sections by clicking the tab headers.

## Adding your first password to the database

After logging in to your database, the main window of Password Memory will be shown. This is where your list of items is shown and can be sorted, searched, and grouped.

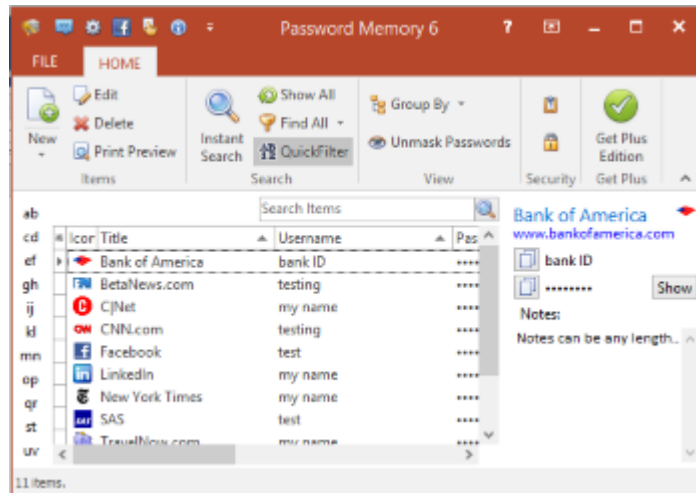


FIGURE 4. This is the main window of Password Memory.



Adding items to the Password Memory database is very straight forward. Simply click the **New** button in the main window toolbar and the New Item window will appear. Fill out the fields necessary (at least **Title**, **Username** and **Password** are recommended) and then click the **OK** button to save the item.

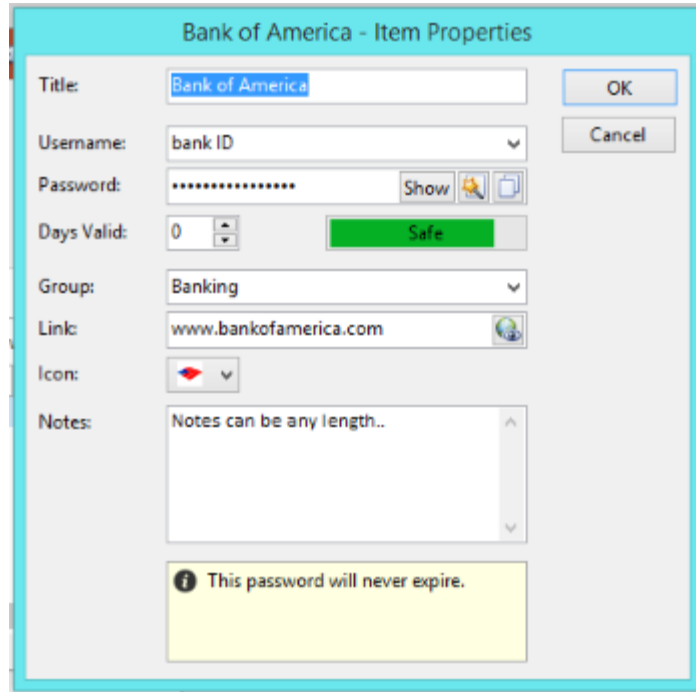


FIGURE 5. The New Item dialog let you add items to your database. When you click the OK button they will appear in your database.

## Field Descriptions - Passwords


There are a number of available fields that are stored with each item. You can choose to fill out one or many of them. Our recommendation is to fill out at least **Title**, **Username** and **Password**.

### Title


This is the title of the item. If you are storing login details to an Internet bank this the title could be the name of the bank. If you are storing the pass code to your home network the title could be “Home Network”.


### Username

If you need a username or e-mail address to login to an Internet site, this is the field where you store the username or e-mail address used. This information can later be copied to the Windows Clipboard automatically and pasted into the field on the website.

You can later click the  button to copy the username into the Windows Clipboard. Then place the cursor in the website username field and press CTRL+V to paste it into the field (you can also right-click the field and choose Paste).

**Password**

This is where you type the password. Note that you can generate a password automatically by clicking the following button:  Generating passwords like this ensures that you get unique and secure passwords. Read more about this in the **Secure**

**Passwords** chapter. You can later click the  button to copy the password into the Windows Clipboard. Then place the cursor in the website password field and press CTRL+V to paste it into the field (you can also right-click the field and choose Paste).


**Days Valid**

If you want your password to expire after a set number of days; you can set the number of day you want the password to be valid here. Set it to 0 (zero) if you never want your password to expire. You will later be able to filter the list to see expired items only (and change the passwords of those items). Changing your passwords on a regular basis is recommended to keep them secure. Read more about this in the **Secure Passwords** chapter.

**Group**

If you want to be able to group your items, this is where you enter the name of the group that the current item belongs to. Previously entered groups can be found by clicking the drop-down button in the group field. You can later group the list by this field by clicking the **Group By** button in the toolbar and choosing **Group**.

**Link**

This is where you enter a URL to the website associated with this item. It can also be the path to a file associated with the item. You can then click the  button to open the associated URL or file.

**Icon**

The icon helps you identify the item faster so choose one that reminds you of the item. If you type a web address into the Link field and leave the field; it will automatically try to retrieve an icon from that website. This check is only preformed if you haven't already chosen an icon.

You can clear the item by going to the Icon field and pressing Backspace on your keyboard.

**Notes**

The notes field is of unlimited size and you can add any text here that is associated with the item.

## **Adding your first credit card to the database**

Password Memory now also lets you add credit card information to the encrypted database. This will keep your credit card and bank information safe. You can store as much or as little information about the credit cards as you wish, if you provide a **Card**

**Name.** As with passwords, all information is safely encrypted and stored in the database when you click the OK button.

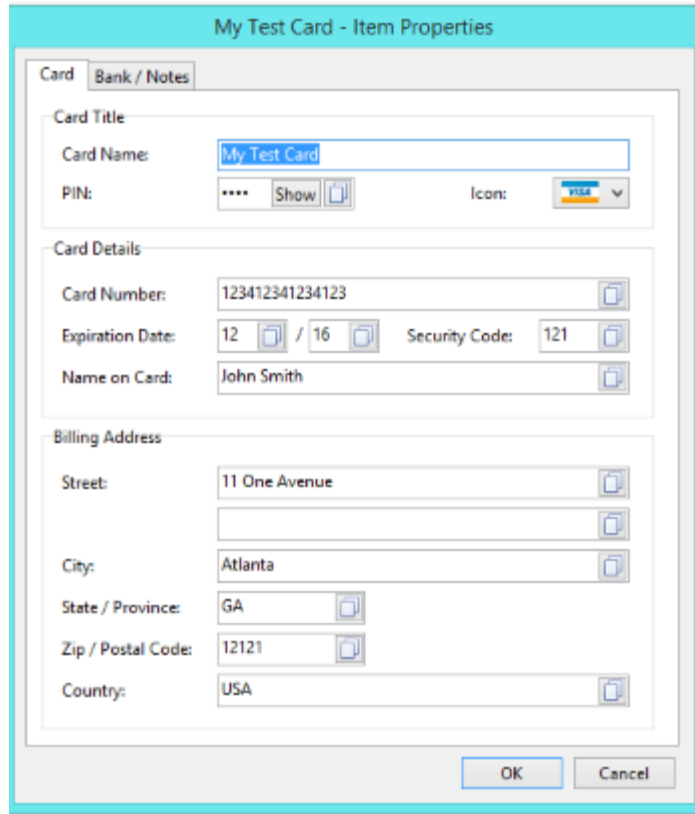


FIGURE 6. The New Credit Card dialog let you add credit cards to your database. When you click the OK button, they will appear in your database.

## Field Descriptions - Passwords

### **Card Name**

This is a name that you assign the card so that you can easily find it later. It could be “My MasterCard” or “John’s Visa Card”, for example.

### **PIN**

This field used for the PIN code.

### **Icon**

The icon helps you identify your card faster.

### **Card Number**

The card number shown on the card.

### **Expiration Date**

The date of expiration (MM/YY).

### **Security Code**

The three-digit security code shown on the back of your card. Note some cards have this code on the front and some cards do not have this at all.

### **Name on Card**

The name as it is shown on the card.

**Billing Address**

The billing address group box let you store the billing address of your card. It contains the following fields: Street address (two lines), City, State/Province, Zip/Postal Code and Country.

**Bank Name**

The name of the bank that issued the card.

**Phone Number**

Phone number to the bank that issued the card.

**Phone Code**

If the bank requires a phone code when calling you can store it in this field.


**Website**

The website/homepage of the bank.

**Notes**

The notes field is of unlimited size and you can add any text here that is associated with the credit card.

## Basic Navigation

When you are in the main window you can navigate the list of items using the mouse or the arrow keys. When you change the focus of the cursor, the selected item will be highlighted, and the details of that item will be show in the side bar labeled “**Item Details**”. It is then possible to show the password by clicking the **Show** button. You can also copy the **username** and **password** to the clipboard by clicking the  buttons of the respective fields.

**Note**

Note that you can drag and drop the username and password into e.g. web pages. Achieve this by clicking the username or password from Item Details and holding the mouse button down while moving the cursor into the desired text box in the web page.

This is extra convenient if you (in Options) set the application to always be on top of other windows.

**Note**

If you click the Unmask Passwords button in the toolbar, all passwords will be visible. It is not recommended to always run Password Memory in this mode though.

To open an item and view or edit the fields (e.g. to change the password) click the **Open** button after selecting the appropriate item. The Item Properties dialog will then appear (which is identical to the New Item dialog).

### **Grouping the List**

If you want to group your list by group or username, click the **Group By** button in the toolbar and choose the field you wish to group your list by. You can later ungroup the list by clicking the **Group By** button again and choosing (no grouping).

### **Deleting Items from the Database**

You can delete one or many items from your database by selecting them in the list and clicking the **Delete** button in the toolbar. To select more than one item, use basic Windows multi-selection technique (CTRL+click or SHIFT+click).

## **Password Memory settings and options**

Click the Application Button in the top left corner of the application and choose **Options**. This will open a dialog containing a bunch of settings you can alter to get the program to work as you desire.

The **Top Options** is the language selection which enables you to change the program language on the fly. You can also alter the color scheme used in the program between blue, silver, and black.

The next option category is **Working with Password Memory**. It contains the following options:

**Start Password Memory when Windows starts.** This option will tell Windows to run Password Memory when Windows is started.

**Keep Password Memory on top of other windows.** This option ensures that Password Memory is not hidden behind any other windows.

**Confirm Deletes.** When this option is checked; you will get a confirmation dialog each time before items are deleted.

**Put icon in System Tray.** If this option is checked a Password Memory icon will be placed in the task bar notification area. When the program is minimized, it will be minimized to the task bar notification area to and you need to double-click the program icon to restore the window again.

**AutoFormat input.** This option will make sure some items are auto formatted (capitalized) when adding new items.

**Alter the color of every row in the list** will give every other row in the list a slightly gray background.

**Hide the credit card tab** will hide the credit card tab to save screen space if you only use Password Memory for passwords.

The last category is **Securing Password Memory** and it contains the following options:

**Clear Clipboard when minimizing Password Memory.** This will make sure that none of your passwords stays in the Windows clipboard when you minimize the program.

**Lock database when minimizing Password Memory.** This will require you to enter your password when opening the program after it has been minimized.

**Lock database after x minutes of inactivity.** This option is like the previous option but will wait  $x$  minutes before the password is required after the program has been minimized.

**Clear the password history** will remove all password history from the database (and enable you to assign the same password for an item more than once). This is not recommended if you want to keep your security as high as possible.

**FTP Sync (Plus Edition Only)**

The FTP Sync function let you sync your database via a FTP server so that you stay up-to-date no matter where you login (if you have multiple computers). This is a good alternative for people who do not want to setup a database server (and who will not access the database from different locations at once).

When using FTP Sync, a sync file will be downloaded when a database is opened, and the same file will then be updated when a database is closed.

The FTP Sync will only synchronize passwords (and not credit cards).

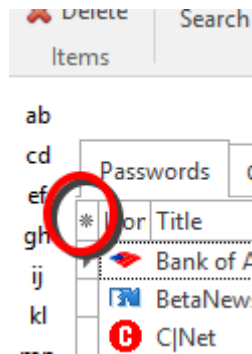
To setup FTP Sync, you need to supply FTP server login information and perform a test connection.

**Note**

Accessing your database from multiple locations when using FTP sync might render the database out-of-sync.

## Customizing the list

You can choose which columns (fields) to display in the list by clicking the button in the top left corner of the list (to the left of the headers).



A menu will appear where you can choose the fields you want to include in the list. You can also drag and drop the fields up/down to re-order them. You can also re-order the columns by dragging and dropping the header into the desired position.

### Note

You can create multiple line headers (which will make each item in the list multiple lines too). Do that by dragging a column below the line of headers. To reverse this; simply drag and drop the column header back into its desired position in the header line above.

Resizing the columns is as easy as grabbing the edge of the column header with the mouse pointer and resizing it.

### Sorting the Lists

You can easily sort a list by clicking the column header you wish to sort the list by. The list will then be re-sorted instantly. If you want to sort in descending order; click the same column header a second time.

## Searching for items

There are multiple ways of searching in Password Memory. Our various search methods are extremely fast and easy to use. Note that you can always go back to your full list of items by clicking the **Show All** button in the toolbar.

### Instant Search

The easiest and fastest way is probably typing the first few characters of the **Title** or **Group** into the Instant Search field. The list will then be filtered to only show items containing the text you typed.

In the credit cards section, the **Card Name** is searched.

**QuickFilter**

If you click the QuickFilter button in the toolbar, the QuickFilter bar will be shown. It is a set of buttons which you can click to filter the list by the first letter of the **Title**. E.g. if you click the button labeled “de” in the QuickFilter bar; only items with a title that begins with “d” or “e” will be shown.

The same goes for the credit cards section, except that **Card Name** is searched instead of Title.

**Find All**

Clicking **Find All** in the toolbar will bring up a menu of pre-defined filters that you can use to quickly filter your items.

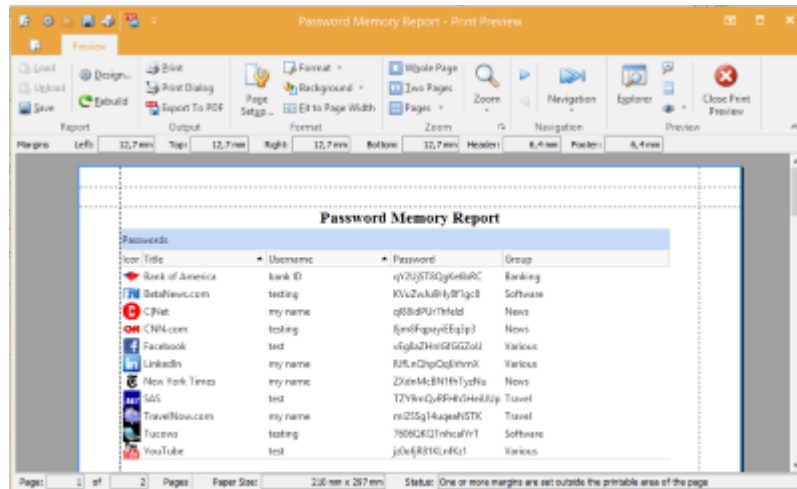
**Items with expired passwords** show you a list of items where the password has expired and should be changed.

**Items without a unique password** show you a list of items that do not have a unique password.

## Reports and Printing

**Print Preview**

If you want to print the current view; click the Print-button in the ribbon. This will bring up a preview window that shows how the report will look:



The layout will be the same as the view, so if you customize the view, it will be reflected in the print preview.

The Print Preview window contains a lot of customization options for the printout such as font, header, footer, page numbering, etc.



You can even export to PDF by clicking the 'Export to PDF' button in the ribbon.

## Database Operations

By clicking the Application button in the top left corner of the application you can perform a few database related tasks.

### **Change Database Password**

This option let you change the main database password. This password should be changed now and then to keep your database secure.

### **New Database**

You can have as many databases as you wish, and this option let you create new databases. All you need to do is to specify a file name and location and a password and your new database will be ready to use.

### **Backup Database**

Now and then you should make sure to create backups of your database(s). This ensures that you will still have your database in case of a computer or software failure. The backup is a compressed version of the database file and has a *.bak* file extension.

### **Restore Backup**

This function let you restore a backup that you have previously made of a database. You will be prompted to enter the database password after performing the backup. When restoring a backup, you restore it to the currently open database, so you might need to create a new database and then use the restore function.

### **Export**

You can export your database to the following file formats: Text, HTML, XML and Excel. Note that when you export your database with unmasked passwords; they will be written to the file in plain text and will not be protected in any way.

## Secure Passwords

Having secure passwords is very important. When you use Password Memory it is much easier to use long and secure passwords since the application will generate and maintain the passwords for you. Password Memory will also check your passwords against a list of commonly used passwords to ensure that you always use safe passwords.

### **Selecting a Database Password**

The only password you need to remember in the future is the password to your Password Memory database. It is very important that this password is secure though since this password gives you access to your whole password database. It is very important to remember this password though since there is no way to open your password database without it.

You should use at least 10 characters in your database password. It is good to alternate between upper and lowercase characters and numbers as well. Note that the passwords are case sensitive which means that “HHH” is different from “hhh”.

**Generating Passwords for your Items**


Password Memory contains a password generator which saves you the hassle of creating new, secure passwords yourself. Simply click the  button in the Item Properties dialog to bring up the password generator.



FIGURE 7. The password generation dialog let you create a new, secure password with one click.

The dialog will automatically create a password (of the same length as the previous password for this item) when you bring it up. If you are satisfied simply click the **OK** button to use the new password.

You can also change the characters used in the password and/or the desired length. After the changes are made, click the **Generate New** button to generate another password, using the new settings. Finally click the **OK** button to use the new password.

## Setting up a remote database server (Plus Edition Only)

Password Memory can be setup to use a remote server with several clients accessing the same database. The database can be accessed over both LAN and Internet using the tcp-ip protocol.

**Step 1. Install the first client and create a database**

The first thing you need to do is to download Password Memory and create a database. Read more about this in the chapter entitled “Running Password Memory for the first time”.

**Step 2. Install the server**

To setup the database server you need to download and install Firebird 2.1.7 on the server. To download Firebird server, point your browser to [www.FirebirdSql.org](http://www.FirebirdSql.org) and

download Firebird 2.1.7 Windows SuperServer from their download area. Direct download URLs are also available from the support area of our homepage.

When the file is downloaded run the setup executable file and click Next in the dialog that appears. After that, choose to accept the license agreement and click the Next-button again. The release notes will appear so click Next again. Now it is time to choose the installation directory of the server. We recommend that you use the default location, so click the Next-button again. The next page will prompt you to select components to install. Choose the default option (Full installation of Server and development tools), then click Next. Click Next another time to select the default start menu folder. The page titled “Select Additional Tasks” allows you to tweak how the server is executed on the server. We recommend you keep the default settings but select the option to “copy the Firebird client library to <system> directory”. You can also de-select the option to “install control panel applet”.

Finally click Next and then Install and the Firebird server will be installed. When the installation is done you will need to click Next and then Finish.

### **Step 3. Server preparations**

For Firebird server to accept incoming connections from your client’s port 3050 needs to be open in your server firewall. This is the port that Firebird communicates through.

You also need to adjust the server password using a command prompt. Navigate to the following directory in the command prompt (if you installed to the default directory):

```
c:\program files\firebird\firebird_2_1_7\bin\
```

Then execute the following command:

```
gsec -user sysdba -pass masterkey -mo sysdba -pw A8EE61C9FA0010AB7D
```

### **Step 4. Copy the database to the server**

Now it is time to copy the database, which you created in step 1, to the server. Place it in the directory of your choice on the server.

### **Step 5. Connect to the remote database**

The final step is to connect to the server from the clients. Start Password Memory and type the path to the database in the field labeled “Password Database to Open”. It is crucial that you type the full path from the server root directory to the database (shares are not allowed). The format should be:

```
192.168.0.10:c:\my databases\my database.fdb
```

Then type the password to the database and click OK to open the database.

### **Connection problem solving**

“Your user name and password are not defined. Ask your database administrator to set up a Firebird login.”

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The gsec command in step 3 does not seem to have worked. Try it again and make sure the command executes successfully.

“Unable to complete network request to host. Failed to establish a connection.

The client can't make a connection to the database. Make sure that Firebird is running. Also make sure that no firewall is blocking the connection and that port 3050 is running. Also make sure that keynote.exe (the Password Memory 5 executable) is allowed through the local firewall (if any) on the client computer.

“Cannot attach to password database. Unable to open database.”

The Firebird server probably has insufficient rights. Make sure it has administrative rights.