SwissCenter Installation

Windows Step-by-Step Guide

Author:	Robert Taylor (Swiss)
Creation Date:	29th September 2004
Last Updated:	29th September 2004
Version:	Draft A

Contents

Downloading the Software

The following is a list of all the software that you will need for a successful installation of the SwissCenter interface for the Pinnacle Showcenter:

- SwissCenter
  Download from http://www.swisscenter.co.uk/
  Size – 1.5Mb

- MySQL 4.0 or above - *Windows (x86) Installer*
  Download from http://dev.mysql.com/downloads/
  Size - 24.6 Mb

- PHP 4.3.9 - *ZIP Package*
  Download from http://www.php.net/downloads.php
  Size - 6.79 Mb

- Apache 2 Webserver for Windows - *Win32 Binary (MSI Installer)*
  Download from http://httpd.apache.org/download.cgi
  Size - 6.39 Mb

Total download size is approximately 40 Mbytes.
Required Disk space for installation is approximately 110 Mbytes.

☞ **Please Note:** The software supplied with your Pinnacle Showcenter does **not** need to be installed on your computer to allow you to use the SwissCenter. However, you will need the Pinnacle software installed if you wish to upgrade the Showcenter firmware.

Installing SwissCenter

Having downloaded the *SwissCenter* Zip file, installation is quite simple and only requires that you extract the contents of the zip file into the appropriate place.

The steps below show how to extract the file using the built-in zip handling features of Windows XP. If you are running Windows 2000 or NT, then you can use a program such as *WinZip* to extract the files instead.
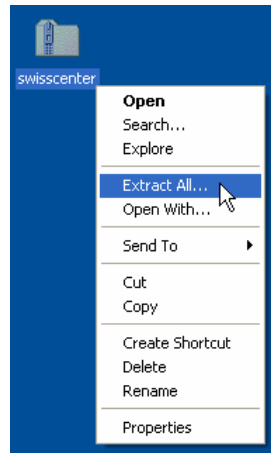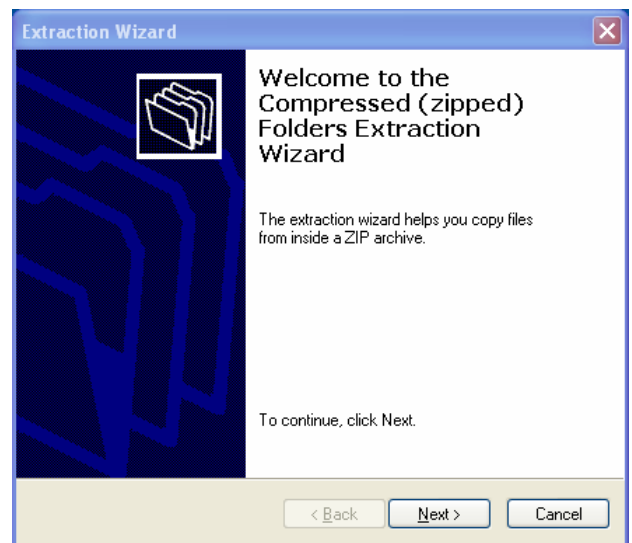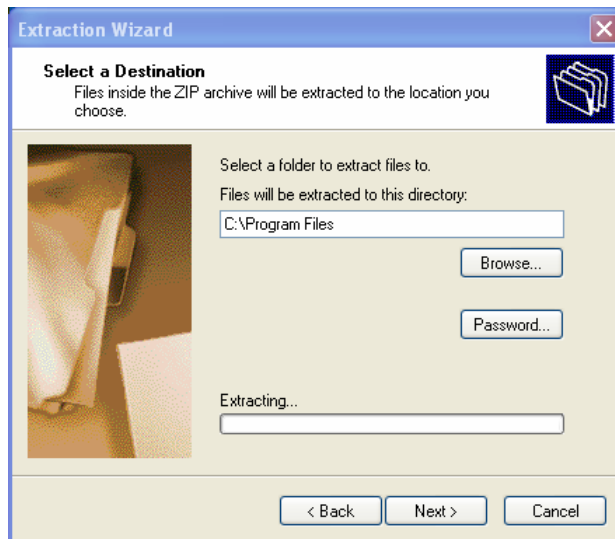
Step 1

Locate the ZIP file that you downloaded, and right click on it to bring up the menu shown here. Select *Extract All* from the menu.
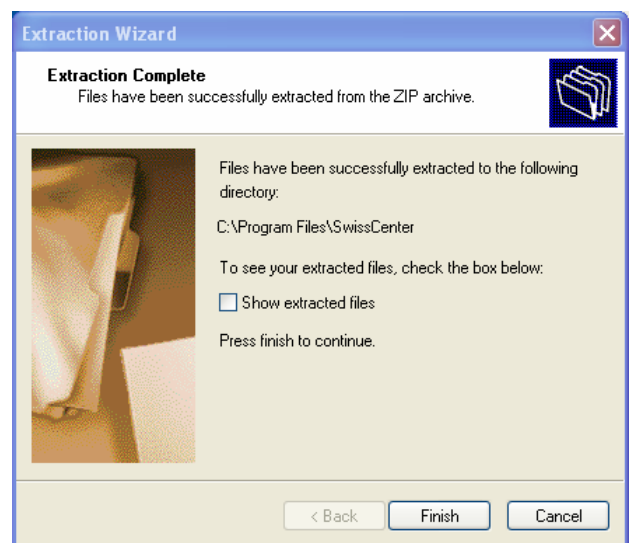
Step 2

Click *Next*.

Step 3

Select a folder to extract the files into.

This will be the folder into which the SwissCenter interface is installed, so it is recommended that you choose "*C:\Program Files\SwissCenter*" (or wherever you usually install your programs).

Click *Next* once you have selected a folder.

Step 4

Ensure that the *Show Selected Files* option is **not** checked and click *Finish*.

Information on how to configure the SwissCenter will be provided later in this document once all the other required software components are installed.

Installing and Configuring MySQL

Installing MySQL

Having downloaded the *MySQL 4.0* (or above) Zip file you should extract it to a temporary folder (which you can delete after installation) and then double-click the *Setup.exe* file to launch the installer.
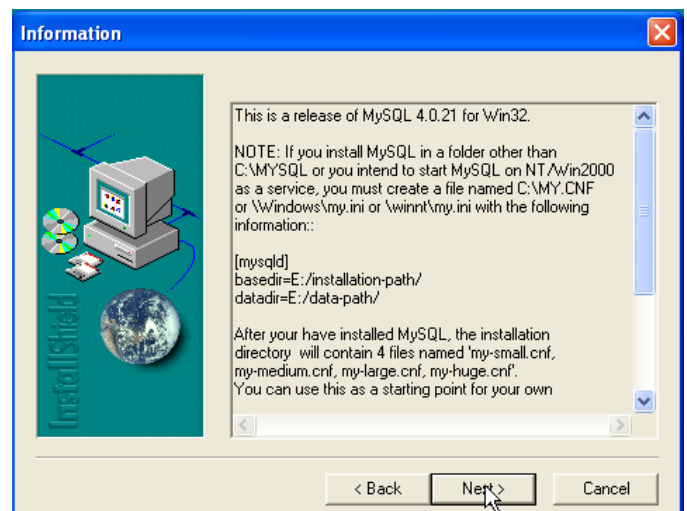
> If you are using Windows XP, you do not need to extract the Zip file to a temporary folder first. You can simply double-click the Zip file to explore it and then double-click on the *Setup.exe* file to the installation program.
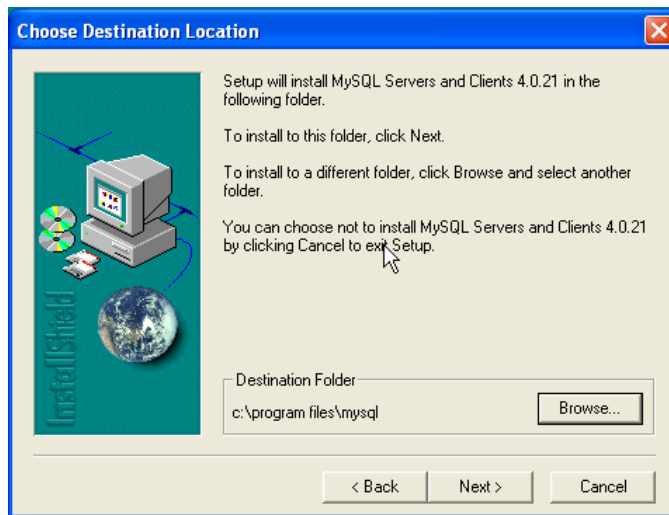

Step 1

Click *Next*.

Step 2

Click *Next*.

Choose Destination Location

Setup will install MySQL Servers and Clients 4.0.21 in the following folder.

To install to this folder, click Next.

To install to a different folder, click Browse and select another folder.

You can choose not to install MySQL Servers and Clients 4.0.21 by clicking Cancel to exit Setup.

Destination Folder

c:\program files\mysql

Browse...

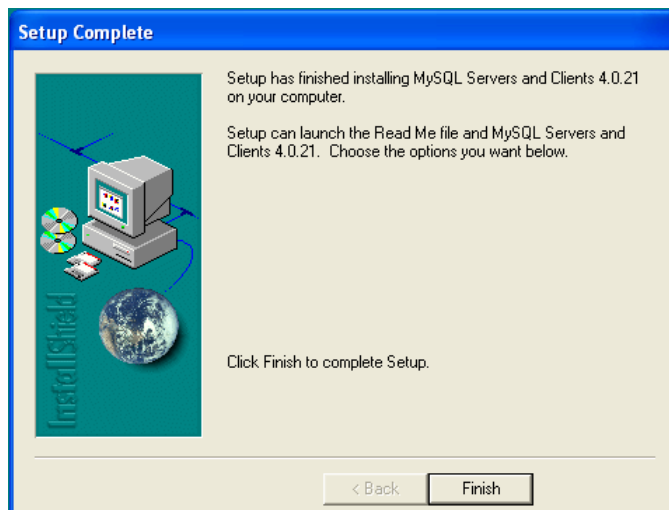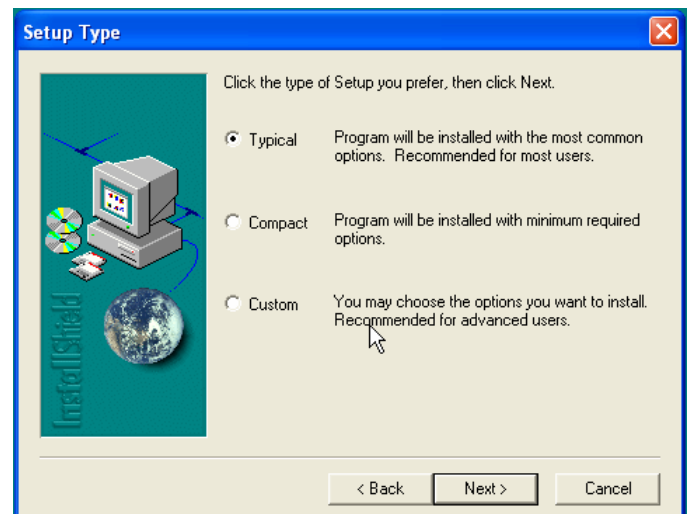< Back   Next >   Cancel

Step 3

Choose a destination folder into which *MySQL* will be installed.

It is recommended that you choose "*C:\Program Files\MySQL*" (or wherever you usually install your programs).

Click *Next*.

Setup Type

Click the type of Setup you prefer, then click Next.

⦿ Typical   Program will be installed with the most common options. Recommended for most users.

○ Compact   Program will be installed with minimum required options.

○ Custom   You may choose the options you want to install. Recommended for advanced users.

< Back   Next >   Cancel

Step 4

Choose the *Typical* Installation and click *Next*.

Setup Complete

Setup has finished installing MySQL Servers and Clients 4.0.21 on your computer.

Setup can launch the Read Me file and MySQL Servers and Clients 4.0.21. Choose the options you want below.

Click Finish to complete Setup.

< Back   Finish

Step 5

Click *Finish*.

Configuring MySQL

Although MySQL does not have a standard MSI installer, there are only two steps that you need to perform to configure MySQL and ensure that it is automatically started when Windows loads.

Step 1

Copy the text below into Notepad (or your favourite text editor) and save it as *"C:\Windows\My.ini"*
Note that the path names are specified with forward slashed, not back-slashes.

```
[mysqld]
basedir=C:/Program Files/mysql
datadir=C:/Program Files/mysql/data
tmpdir=C:/windows/temp

[WinMySQLadmin]
Server=C:/Program Files/mysql/bin/mysqld-nt.exe
user=root
password=
```

☞　　　If you installed MySQL into a different location then you should substitute the location you used in place of the *C:\Program Files\Mysql*.

Step 2

Click on the *Start Menu* and select *Run*. In the dialog box that appears, type the command *exactly* as it appears below (or cut and paste it) and click *OK*.

```
"C:\Program Files\MySQL\bin\mysqld-nt" –install
net start mysql
```

☞　　　Again, If you installed MySQL into a different location, then you will need to substitute the location you used as in place of "*C:\Program Files\Mysql*"

Installing and Configuring PHP

Installing PHP

Having downloaded the *PHP 4.3.9* Zip file, installation is quite simple and only requires that you extract the contents of the zip file into the appropriate place.

The steps below show how to extract the file using the built-in zip handling features of Windows XP. If you are running Windows 2000 or NT, then you can use a program such as *WinZip* to extract the files instead.

☞ **Please Note:** You must download the **ZIP** version of the PHP installation, not the version that has been written as a windows installer. This is because the ZIP file contains a number of PHP extensions that are required by the SwissCenter and are missing from the windows installer version.
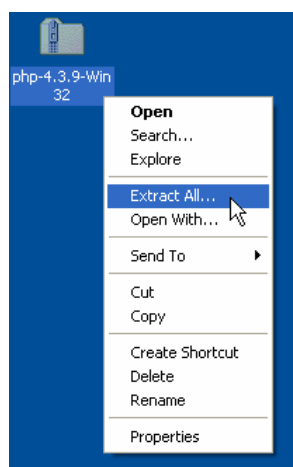
Step 1

Locate the ZIP file that you downloaded, and right click on it to bring up the menu shown here. Select *Extract All* from the menu.
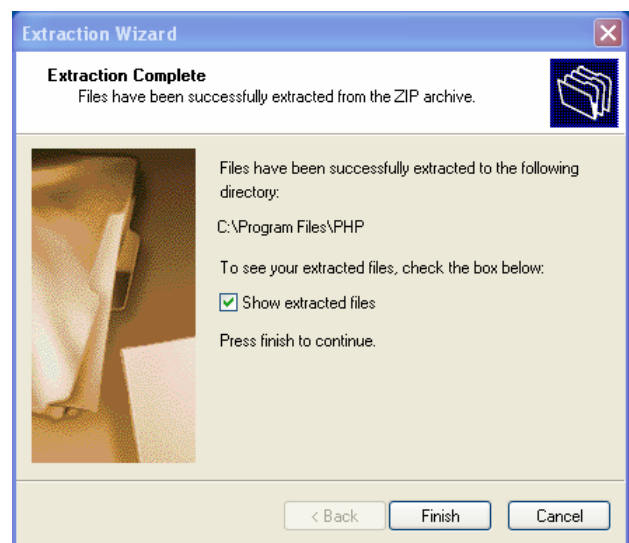
Step 2
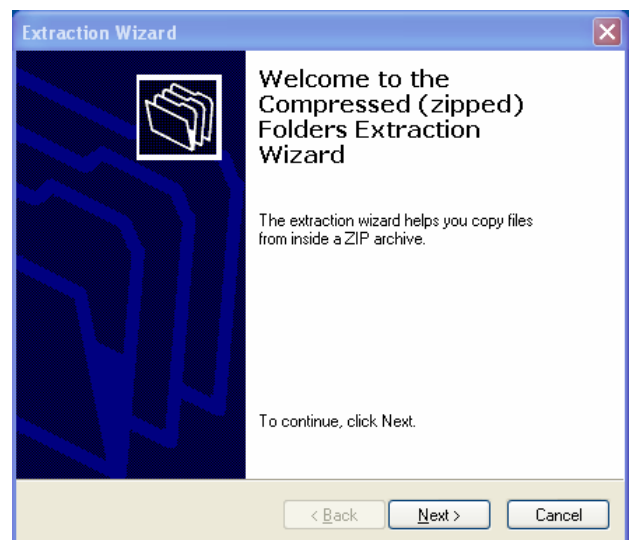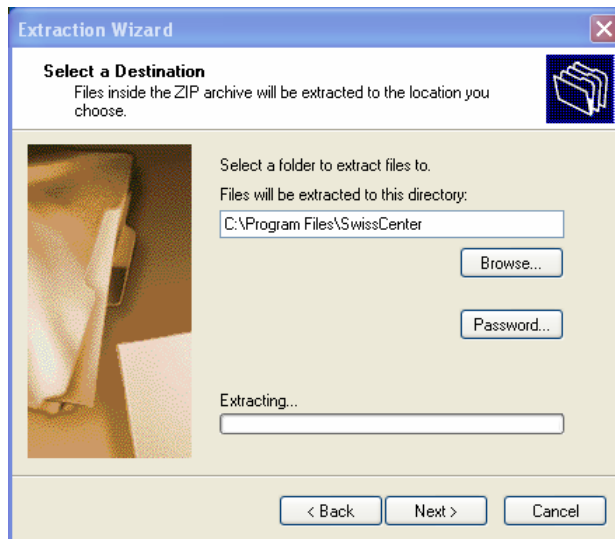
Click *Next*.

Step 3

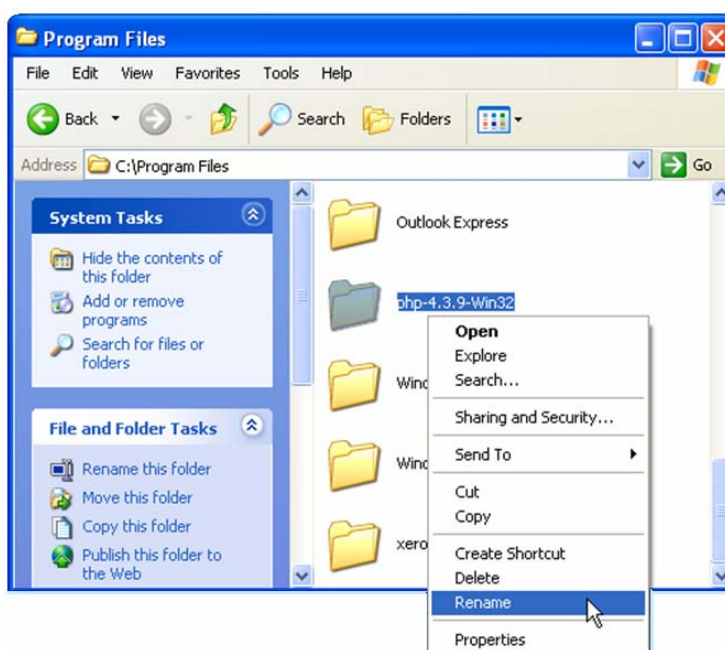Select a folder to extract the files into.

This will be the folder into which PHP is installed, so it is recommended that you choose "*C:\Program Files*" (or wherever you usually install your programs).

Click *Next* once you have selected a folder.

Step 4

Ensure that the "*Show Selected Files*" option is checked (for the next step) and then click *Finish*.

Step 5

Finally, in the *Explorer* window that opens you need to either rename the PHP folder to something a little easier to remember, or make a note of the *exact* folder name.

It is recommended that you rename the folder to "*PHP*" by pressing *F2* or right clicking on the folder and selecting *Rename* from the context menu.

Note: You may have to click "*Show the Contents of this folder*" if the files are hidden.

Configuring PHP

PHP is entirely configured from a single text file (the *php.ini* file), and there are only a few minor changes that you will need to make to the standard file.

Step 1

Load the file *C:\Program Files\PHP\php.ini-dist* into your favourite text editor (if you installed PHP into a different location then load the *php.ini-dist* file from that location instead).

Step 2

Next, you need to navigate down to the section of the configuration file that controls which PHP extensions will be enabled. The easiest way to do this is to perform a search for the text "*Windows Extensions*". The section of the document will look similar to that shown below:

```
;Windows Extensions
;Note that MySQL and ODBC support is now built in, so no dll is needed for it.

;extension=php_bz2.dll
;extension=php_cpdf.dll
;extension=php_crack.dll
;extension=php_curl.dll
;extension=php_db.dll
;extension=php_dba.dll
;extension=php_dbase.dll
;extension=php_dbx.dll
;extension=php_domxml.dll
;extension=php_exif.dll
;extension=php_fdf.dll
;extension=php_filepro.dll
extension=php_gd2.dll
;extension=php_gettext.dll
;extension=php_hyperwave.dll
;extension=php_iconv.dll
;extension=php_ifx.dll
;extension=php_iisfunc.dll
;extension=php_imap.dll
;extension=php_interbase.dll
;extension=php_java.dll
;extension=php_ldap.dll
;extension=php_mcrypt.dll
extension=php_mbstring.dll
;extension=php_mhash.dll
;extension=php_mime_magic.dll
;extension=php_ming.dll
;extension=php_mssql.dll
;extension=php_msql.dll
;extension=php_oci8.dll
;extension=php_openssl.dll
;extension=php_oracle.dll
;extension=php_pdf.dll
;extension=php_pgsql.dll
;extension=php_printer.dll
;extension=php_shmop.dll
;extension=php_snmp.dll
;extension=php_sockets.dll
;extension=php_sybase_ct.dll
;extension=php_w32api.dll
;extension=php_xmlrpc.dll
;extension=php_xslt.dll
;extension=php_yaz.dll
extension=php_zip.dll
```

Notice that there are a number of modules that I have highlighted in red. Make sure that those lines in your file match the ones above and **do not** have a semi-colon at the beginning.

Step 4

Using the Search function, locate the line which reads as follows

```
extension_dir = "./"
```

Change it to read:

```
extension_dir = "./extensions"
```

Step 5

Using the Search function, locate the line which reads as follows (note that there may be several lines which look similar to this one, but the one that you should locate does **not** have a semi-colon at the beginning of the line):

```
error_reporting  =  E_ALL & ~E_NOTICE
```

Change it to read:

```
error_reporting  =  E_ERROR
```

Step 6

In your text editor, go to the *File* menu and select *Save As*. Now save the file into your Windows folder (*C:\Windows*) with the name *php.ini* (Note that the "-dist" is omitted from the filename).

Installing and Configuring Apache

Installing Apache

Having downloaded the Apache installer, double click the executable to launch it and you will be presented with the following screen:
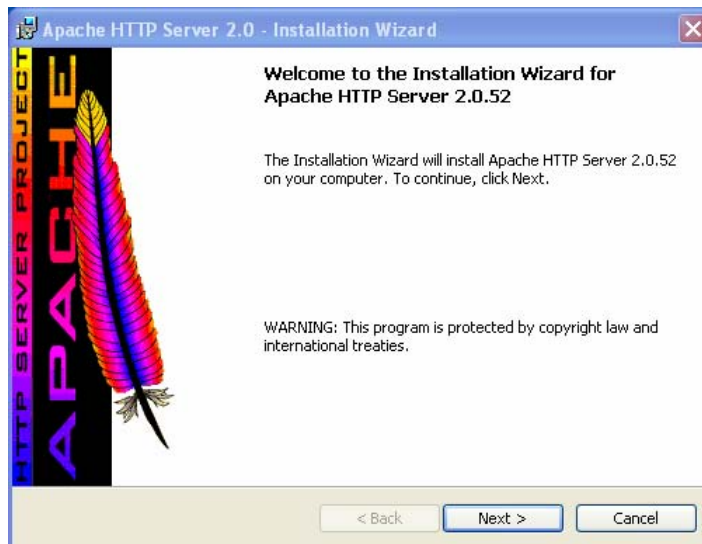
Step 1

Click on *Next* and you will be presented with the License Agreement

Step 2

Of course, you plan to abide by the license agreement, so select *I accept the terms in the license agreement* and click on *Next*.
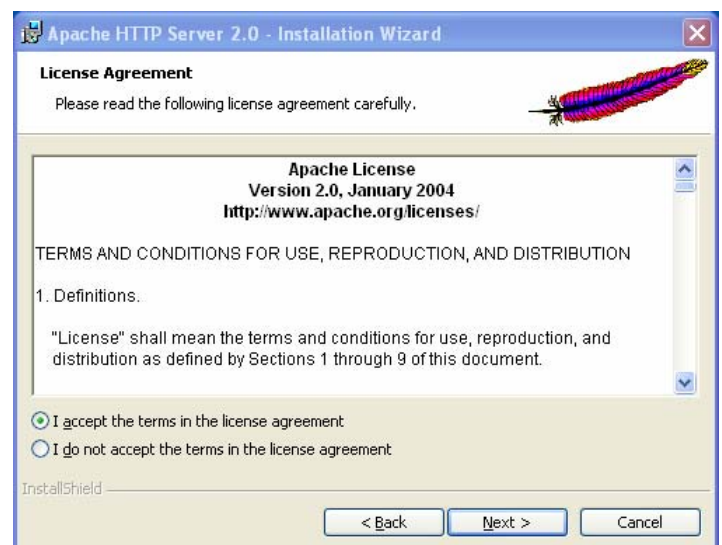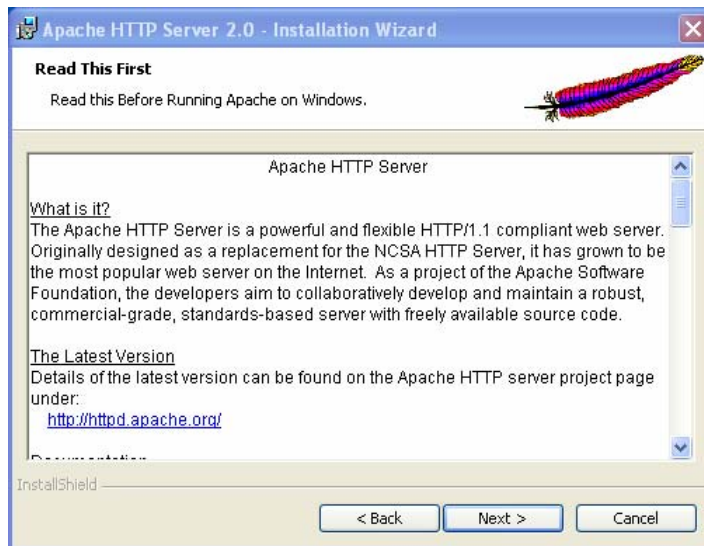
Step 3

After reviewing the information (or not) click the *Next*.

Step 4

For both the *Network Domain* and the *Server Name* enter the name of your machine. If you don't know what your machine's name is then enter "*localhost*" instead (the Showcenter will access the webserver by IP address anyway, so it really doesn't matter).

Enter your email address into the *Administrator's Email Address*, leave the *Programs and Shortcuts* selection set to "*for All Users*" and click on *Next*.
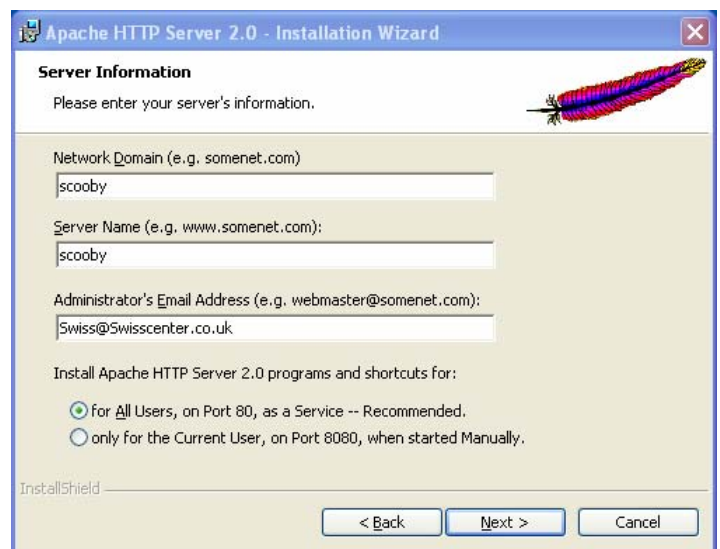
Step 5

Leave the setup type set to *Typical* and click on *Next*.

Step 6

Change the installation folder only if you need to install Apache to a different location, and then click on *Next*.
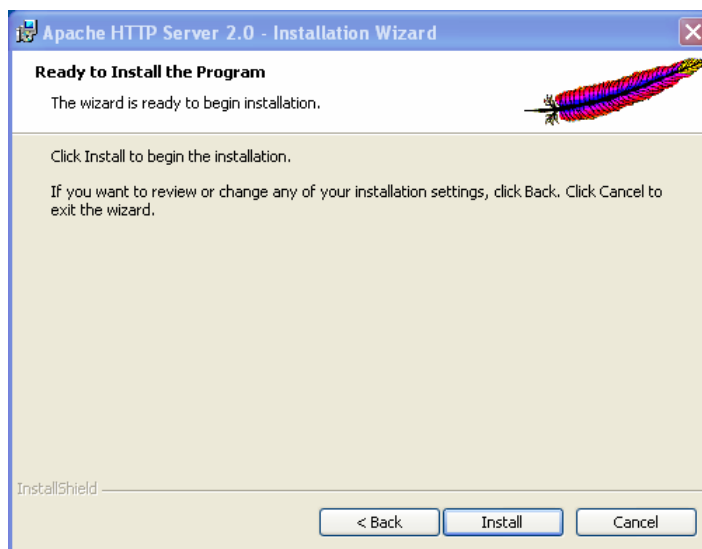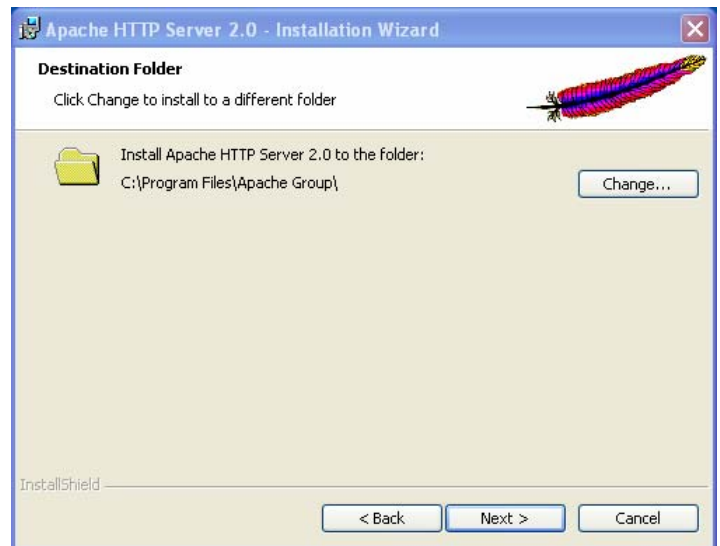
Step 7

Click on Install and wait a couple of minutes for the installation to complete.

Step 8

Click *Finish*.
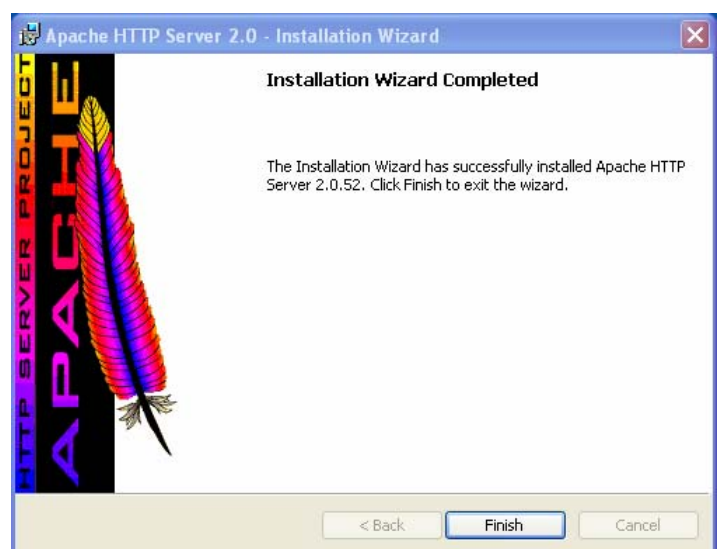
Configuring Apache

Like PHP, Apache is also entirely configured from a single text file which you will need to edit in the following way:

Step 1

Load the configuration file into a text editor by clicking on the *Start Menu* and selecting *All Programs* > *Apache HTTP Server* > *Configure Apache Server* > *Edit the Apache httpd.conf Configuration file*.

Step 2

Navigate to the very bottom of the file and add the following lines (cut and paste them from this document).

The lines that are highlighted in red contain references to the locations into which that you installed PHP and the SwissCenter software. If you did not use the locations shown, edit the file to reflect the locations that you did use.

```
Listen 8080
<VirtualHost _default_:8080>
  DocumentRoot "C:\Program Files\swisscenter"
  <Directory "C:\Program Files\swisscenter">
    Options Indexes FollowSymLinks MultiViews
    AllowOverride None
    Order allow,deny
    Allow from all
  </Directory>
  <IfModule mod_dir.c>
    DirectoryIndex index.html index.php
  </IfModule>
  ScriptAlias /php/ "C:/Program Files/php/"
  Action application/x-httpd-php "/php/php.exe"
  AddType application/x-httpd-php .php
  Alias /C:/ "C:/"
  Alias /D:/ "D:/"
  Alias /E:/ "E:/"
  Alias /F:/ "F:/"
  Alias /G:/ "G:/"
  Alias /H:/ "H:/"
  Alias /I:/ "I:/"
  Alias /J:/ "J:/"
  Alias /K:/ "K:/"
  Alias /L:/ "L:/"
  Alias /M:/ "M:/"
  Alias /N:/ "N:/"
  Alias /O:/ "O:/"
  Alias /P:/ "P:/"
  Alias /Q:/ "Q:/"
  Alias /R:/ "R:/"
  Alias /S:/ "S:/"
  Alias /T:/ "T:/"
  Alias /U:/ "U:/"
  Alias /V:/ "V:/"
  Alias /W:/ "W:/"
  Alias /X:/ "X:/"
  Alias /Y:/ "Y:/"
  Alias /Z:/ "Z:/"
</VirtualHost>
```
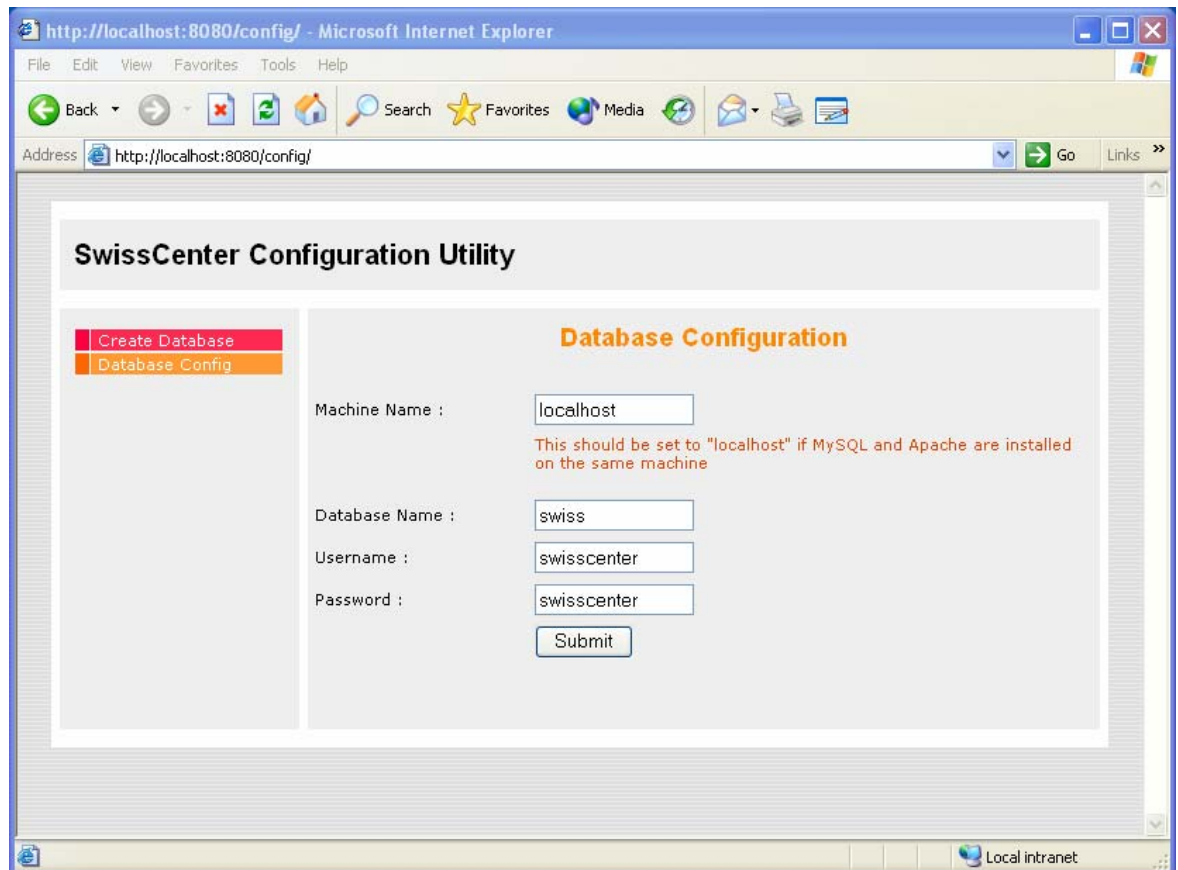
Step 3

Save the File, and restart the Apache webserver by going to the *Start Menu* and selecting *All Programs* > *Apache HTTP Server* > *Control Apache Server* > *Restart*.

Testing your Installed software

If you followed all of the instructions above (well done!) then you can now test your configuration by opening *Internet Explorer* and going to the following location:

http://localhost:8080/config

If all is well, then you will see the SwissCenter Configuration Utility appear:

Configuring the SwissCenter Interface

At long last, you are now ready to perform a few configuration tasks for the SwissCenter software – after which you will be able to sit back and enjoy the new features the interface will bring you.
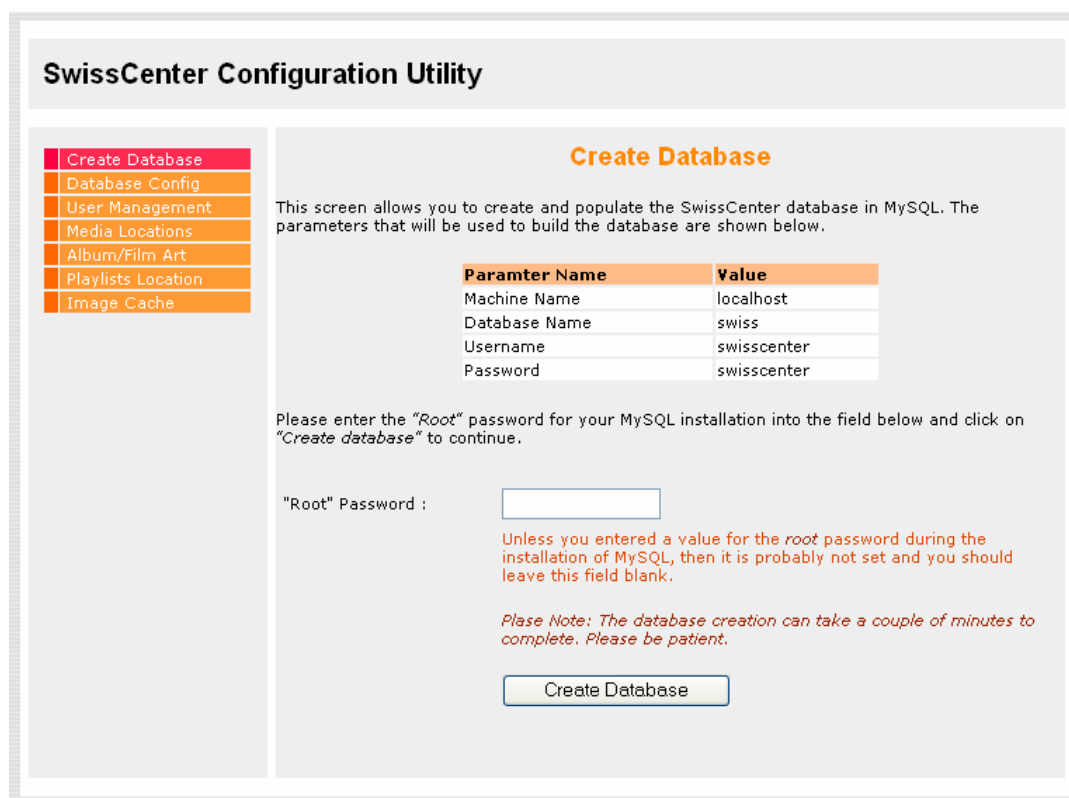
Step 1

Go to the *SwissCenter Configuration Utility* by entering the following URL into *Internet Explorer*:

http://localhost:8080/config

Step 2

As this is the first time you have run the utility, you do not have a database containing all the SwissCenter configuration and therefore you should click on the menu option "*Create Database*".

SwissCenter Configuration Utility

| Create Database |
| Database Config |
| User Management |
| Media Locations |
| Album/Film Art |
| Playlists Location |
| Image Cache |

Create Database

This screen allows you to create and populate the SwissCenter database in MySQL. The parameters that will be used to build the database are shown below.

Paramter Name	Value
Machine Name	localhost
Database Name	swiss
Username	swisscenter
Password	swisscenter

Please enter the *"Root"* password for your MySQL installation into the field below and click on *"Create database"* to continue.

"Root" Password : [   ]

Unless you entered a value for the root password during the installation of MySQL, then it is probably not set and you should leave this field blank.

Plase Note: The database creation can take a couple of minutes to complete. Please be patient.

[Create Database]

If you followed the steps in this guide, then you have not setup a root password for MySQL, and should just click on the *Create Database* Button. Please note that this can take approximately 60 seconds to complete.

☞ If you are using an existing MySQL installation which has a root password assigned, then you should enter it into the box.

Step 3

When the database has been created, you will see the screen shown below which is where you specify the locations of the media files that you to be available via the SwissCenter interface.

Enter a location and select the type of media files that will you want the SwissCenter to search for, and then click on the *Add Location* button. You can add as many locations as you wish provided that they reference local drives (C: through to Z:).

In the example above, you can see that I am adding *"D:/Robert/My Music"* as a location that contains *Music* files.

Step 4

When you have finished added all your media locations, Click on the *Image Cache* menu item to bring up the following screen. Enter the location where temporary image files can be written and click on the Submit button (A good location would be *C:/Windows/Temp*).

Configuring the Showcenter to use the SwissCenter Interface.

When you turn on your Showcenter box, it will not automatically detect the SwissCenter interface, and so you need to manually add it. On the screen that first appears (shown below) move the cursor over to the *Add Server* button and press *OK* on the remote control.
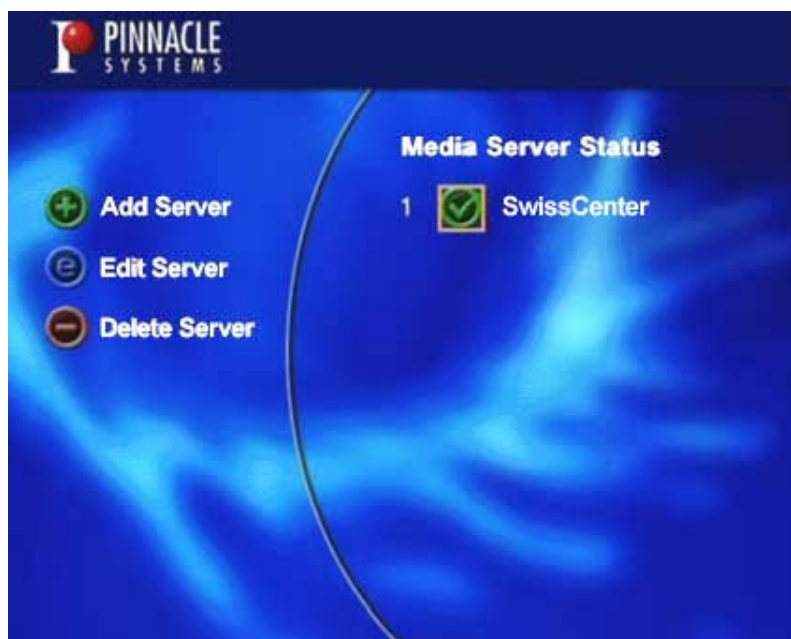
Using the numeric keys on the remote control, enter a *Name* for the server (eg: SwissCenter) and then the *IP address* of the computer that you installed Apache, MySQL, PHP and the SwissCenter software onto (making sure to add *":8080"* onto the end of the IP address). Also ensure that the *Always connect to this server* option is checked before clicking *Save*.

You can find out your IP address by clicking *Start* > *Run* and entering *cmd* into the dialog box that appears. Pressing *OK* will then bring up a command window into which your should type *ipconfig* and press return. Your IP address will then be displayed on the screen.

Finished!

That's All Folks!!!

From now on, you can use the SwissCenter Interface to browse you music and movies collections, listen to some internet Radio or check the weather forecast.