

PBlicense

User Manual



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Dear customer

Thank you for using PBlicense!

We are sure that this software will be very useful to you and that you really will like it! This manual will show you how to get started with PBlicense. It provides detailed step by step instructions so that it will be easy for you to learn how to use the application.

First it will describe the system requirements, installation steps and also detailed problem solutions in case that there are troubles during the setup.

Later it will explain how to unlock the software and you can see how the licensing procedure of PBlicense works.

Then it will explain how to use the PBlicense software: create product configurations, create and send license files, and how to integrate PBlicense into your projects.

At the end it will provide some important information about buying a software license, support contacts and customer feedback.

One of our objectives is to provide a superior support so that we have happy customers. Therefore if you have questions or problems while installing or using our software, please do not hesitate to contact us!

Sincerely

A handwritten signature in black ink, appearing to read 'P. Biegel', with a stylized, cursive script.

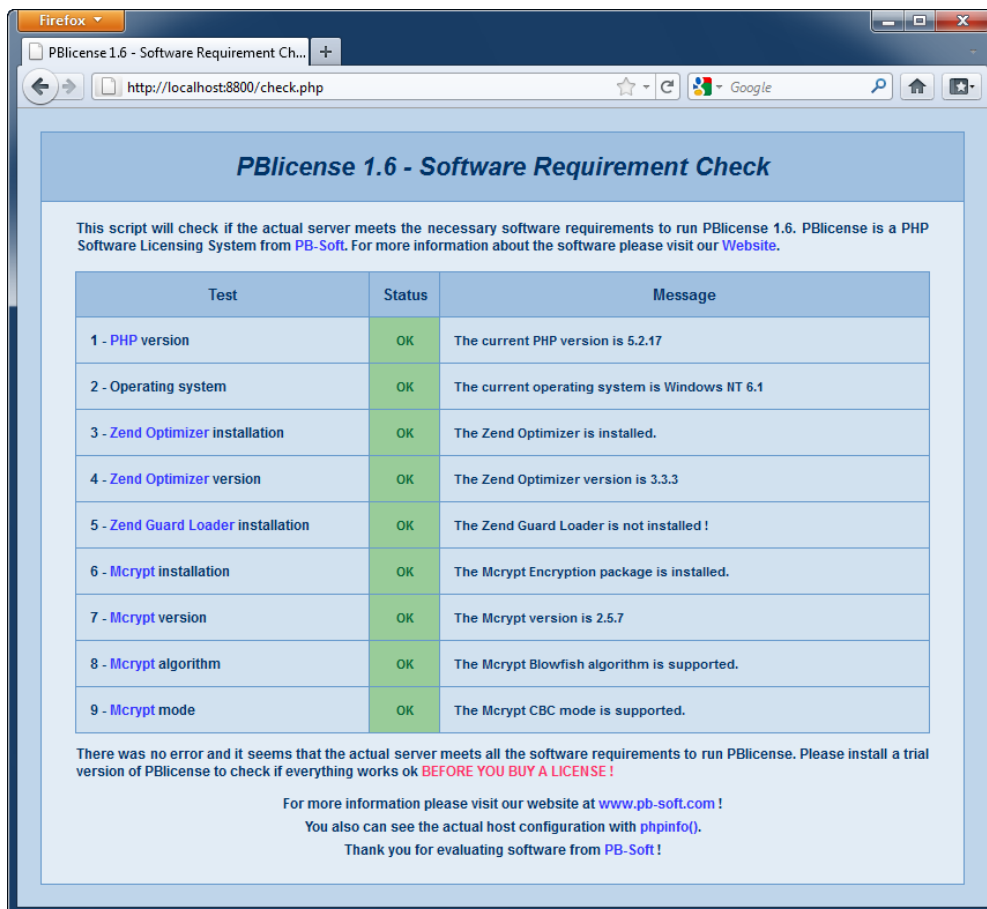
Patrick Biegel

1 Introduction

PBlicense is a PHP Software Licensing System which helps developers to protect their applications against unlicensed use. The software user needs a valid license to run an application. To get a license he needs to create a footprint and send it to the developer. The developer then creates a license file and sends it back to the customer. With the license file the application will run a limited or unlimited time depending on the license file.

2 System Requirements

PBlicense has some specific hard- and software requirements. If you just want to check if your Webserver meets the specific software needs you can use the PBlicense software requirement check script. If there are no errors found while executing the script it should be no problem to use PBlicense on your server. Please download the script from our website at www.pb-soft.com.



PBlicense 1.6 - Software Requirement Check

This script will check if the actual server meets the necessary software requirements to run PBlicense 1.6. PBlicense is a PHP Software Licensing System from PB-Soft. For more information about the software please visit our [Website](http://www.pb-soft.com).

| Test | Status | Message |
|------------------------------------|--------|--|
| 1 - PHP version | OK | The current PHP version is 5.2.17 |
| 2 - Operating system | OK | The current operating system is Windows NT 6.1 |
| 3 - Zend Optimizer installation | OK | The Zend Optimizer is installed. |
| 4 - Zend Optimizer version | OK | The Zend Optimizer version is 3.3.3 |
| 5 - Zend Guard Loader installation | OK | The Zend Guard Loader is not installed ! |
| 6 - Mcrypt installation | OK | The Mcrypt Encryption package is installed. |
| 7 - Mcrypt version | OK | The Mcrypt version is 2.5.7 |
| 8 - Mcrypt algorithm | OK | The Mcrypt Blowfish algorithm is supported. |
| 9 - Mcrypt mode | OK | The Mcrypt CBC mode is supported. |

There was no error and it seems that the actual server meets all the software requirements to run PBlicense. Please install a trial version of PBlicense to check if everything works ok **BEFORE YOU BUY A LICENSE !**

For more information please visit our website at www.pb-soft.com !

You also can see the actual host configuration with [phpinfo\(\)](#).

Thank you for evaluating software from PB-Soft !

You can also use the little checklist below and see if your hard- and software meets the specific needs.

2.1 Hardware

- Host computer
- Client Computer
- Network which connects them

2.2 Software - Host

- Linux, Unix or Windows based webserver
- [PHP](#) version >= 5.2 installed
- [Zend Optimizer](#) >= 3.0 installed
- [Mcrypt](#) data encryption package >= 2.4
- [Mcrypt](#) blowfish algorithm support
- [Mcrypt](#) CBC encryption mode support

2.3 Software - Client

- New webbrowser (like [Internet Explorer](#), [Firefox](#), [Opera](#) ...)
- Javascript enabled in your browser
- PHP Encoder for your projects (like [Zend Guard](#), [IonCube](#) ...)

2.4 Installation

- Text editor to edit the configuration files (like [PS-Pad](#) ...)
- FTP access to your webserver.
- FTP client application (like [Filezilla](#) ...)
- Possibility to change directory permissions.

3 Installation Types

There are two different types of installations. For each of them there is a trial version available which you should **test before you buy the software**. If you buy the PBlicense software you will get a license for both installation types. The PBlicense software for both installation types is exactly the same, there are only two installation types available (localhost or external webhost) to make it easier for you to install the software. Choose between the following two installation types:

3.1 Type 1 - Localhost

The localhost package is a complete package for Windows which includes a very small webserver and PBlicense is working right from the start. This package needs no real installation, just unpacking the archive and edit the configuration files.

3.2 Type 2 - External Webhost

The external webhost package contains all the files which are necessary to install PBlicense on a webhost running Windows or Linux. This package needs a normal installation (uploading and unpacking the archive and then edit the configuration files).

4 Software Download

Please choose between the two available installation types (see above) and then **try the PBlicense trial version first before you buy the full version!** You also can try both installation types. The trial versions are fully functional and only have a time limit of minimum one month.

4.1 Download the PBlicense Trial-Version

First you have to download and try PBlicense so that you can be sure that everything works on your webhost. You can download both installation types from the [PB-Soft Website](#).

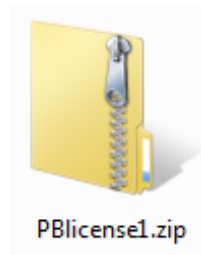
4.2 Buy and download the PBlicense Full-Version

If you have tried the trial version of PBlicense and everything works fine, you can buy the full version of PBlicense from the [PB-Soft Website](#). If you have the trial version of PBlicense installed, you only have to get a new license file. You don't have to install another version of PBlicense!

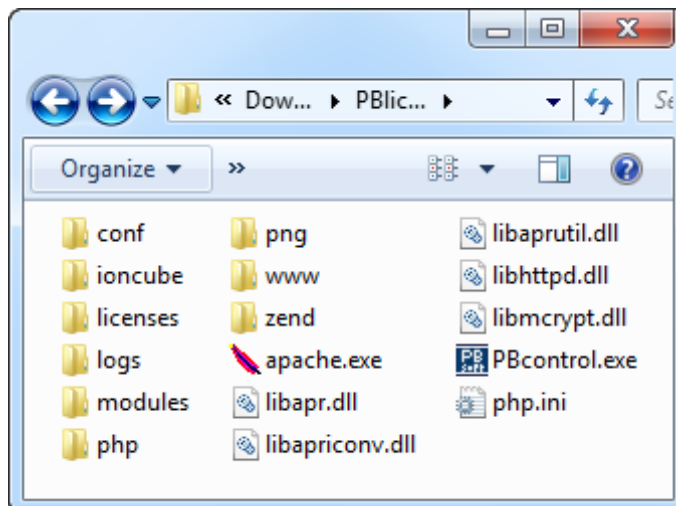
5 Software Installation

5.1 Type 1 - Localhost

If you have downloaded the PBlicense archive from the [PB-Soft Website](#) you will get the archive "**PBlicense1.zip**" in your download folder:

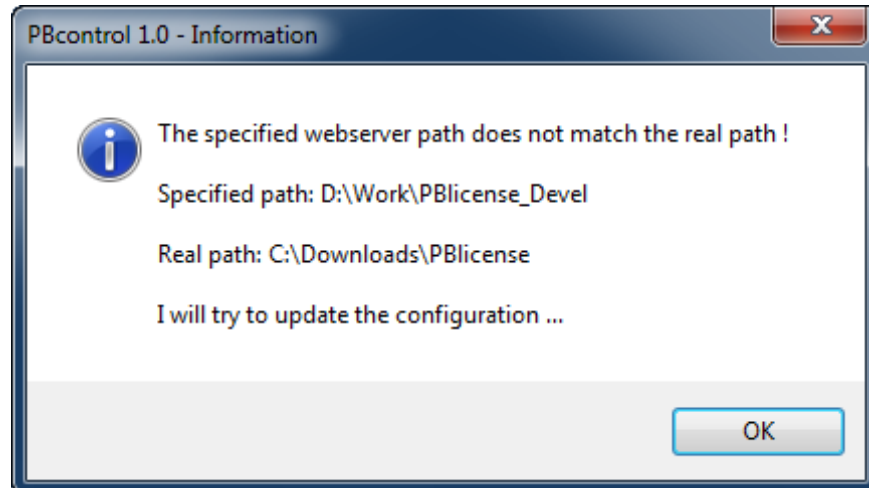


Now you have to unpack the archive with an unzip utility like [7-Zip](#). You can download the free 7-Zip archiver from the [7-Zip Website](#). After unzipping the archive you will get the folder "**PBlicense**" with the following content:

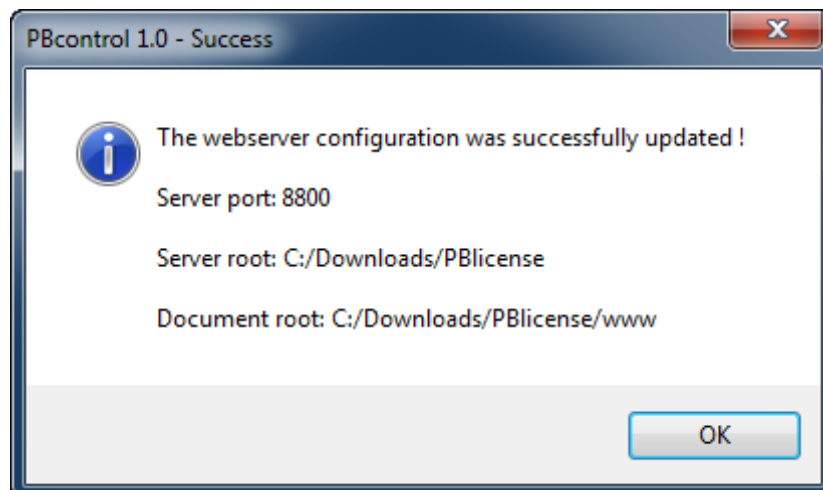


To start the control panel for the webserver, please start the executable "**PBcontrol.exe**".

If you start the control panel the first time, a message will tell you that the path of the webserver does not match the configuration and that the configuration has to be updated:

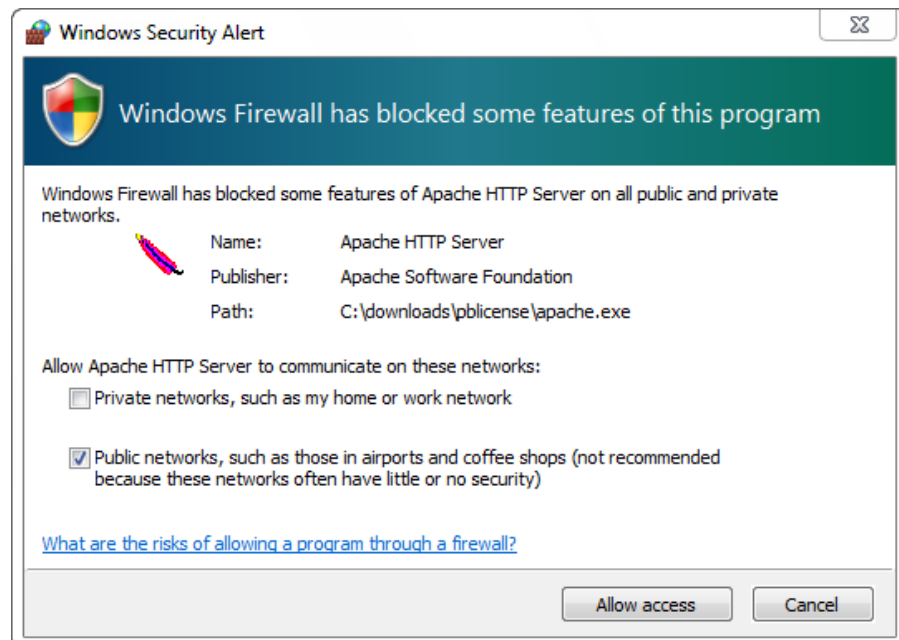


After some seconds the application will continue to update the configuration and a message will display the new configuration settings:

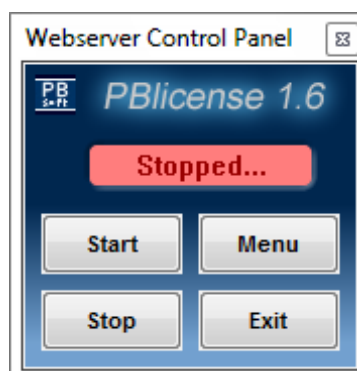


Press the button "**OK**" to continue.

If the control panel is started the first time maybe the Windows Firewall or an other security application will ask you if you want to allow the communication of the Apache Webserver like in the following image:



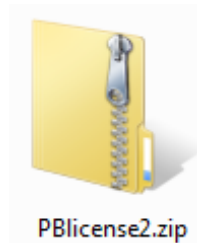
Please choose "**Allow Access**" to continue and let the webserver communicate through the security application. The control Panel will be displayed and the webserver is still deactivated which is indicated by the red status panel:



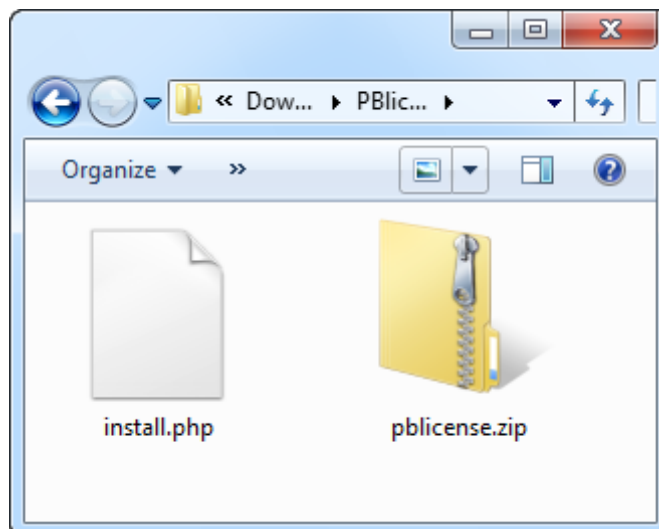
The installation is completed. Please check the other chapters in this manual to see how to configure and use the control panel and the PBlicense application!

5.2 Type 2 - External Webhost

If you have downloaded the PBlicense archive from the [PB-Soft Website](#) you will get the archive "**PBlicense2.zip**" in your download folder:



Now you have to unpack the archive with an unzip utility like [7-Zip](#). You can download the free 7-Zip archiver from the [7-Zip Website](#). After unzipping the archive you will get the folder "**PBlicense**" with the following content:



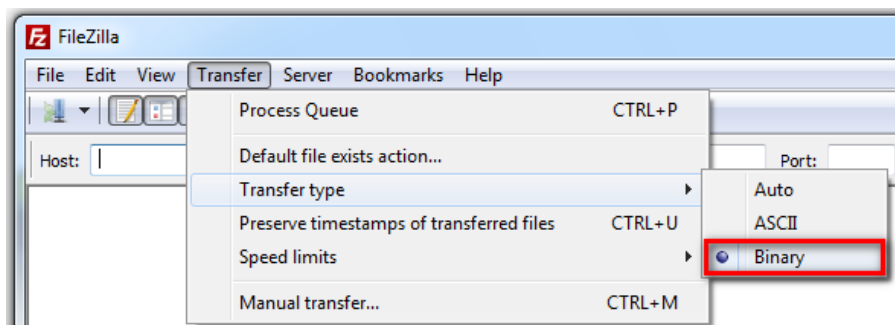
To install PBlicense on your webhost, please upload the two files "**install.php**" and "**pblicense.zip**" with an FTP-Client like [Filezilla](#) to your web-account. The file "**install.php**" is the PBlicense installation script and the file "**pblicense.zip**" contains all the files of the PBlicense application in a compressed archive.

If you upload the files to your webroot directory the installation script will create a new directory called "**pblicense**" in the webroot which contains all the files of the PBlicense application. Here is an example:

The webroot directory is: [home/www/](#)
File upload "install.php" to: [home/www/install.php](#)
You upload "pblicense.zip" to: [home/www/pblicense.zip](#)
The installation directory will be: [home/www/pblicense/](#)

Please check that you upload both files in binary mode!

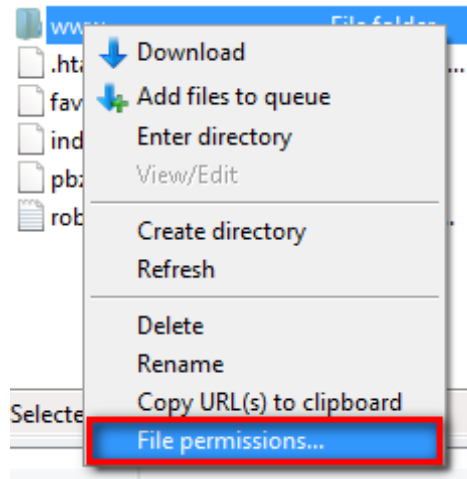
It is very important that you upload the two files in binary mode because otherwise the files could be damaged during the transfer. In the Filezilla application you can set the transfer if you select the menu "**Transfer**", the item "**Transfer type**" and then select "**Binary**" like you can see on the following image:



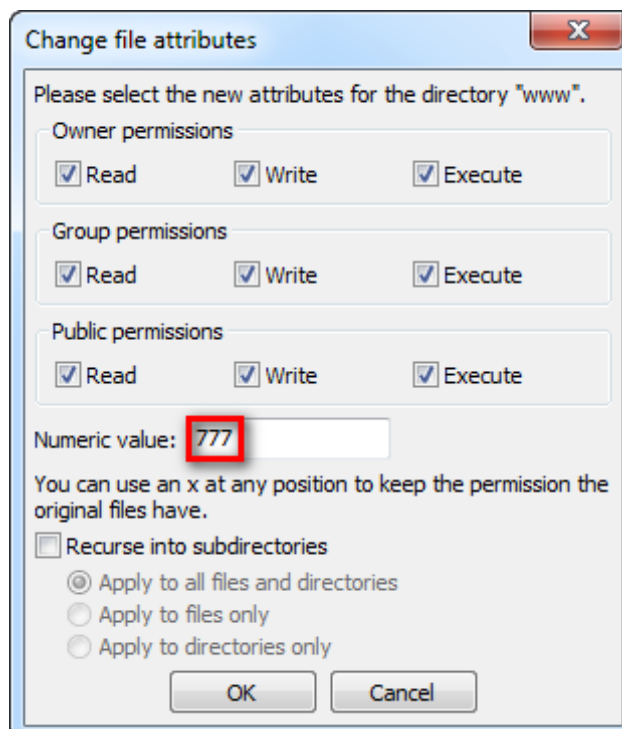
In other FTP applications you also can specify the transfer mode but maybe the menu looks a little bit different. Please make sure that you do not select the transfer mode "**Auto**" because normally the automatic mode will transfer PHP files as text files (ASCII) and that is bad in our case. It has to be the binary transfer mode!

After uploading the file to the webserver, make sure that the installation script "**install.php**" has the permissions to write to the actual directory. You can set the folder permissions to **777** to be sure that the script has write access to install the PBlicense application. After the installation you can set the permissions back to what they were before.

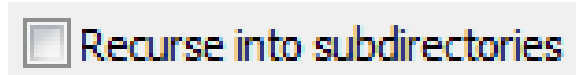
With the [Filezilla](#) FTP-Client you can set permissions in a really easy way. You can right-click on the desired directory and choose **"File permissions..."** from the context menu like on the image below:



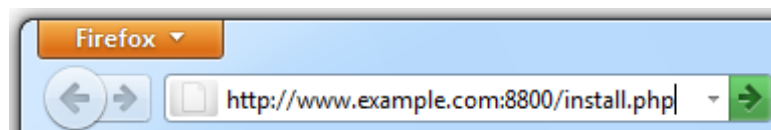
A new window will show all the permission settings. Please choose **777** and click on the button **"OK"**:



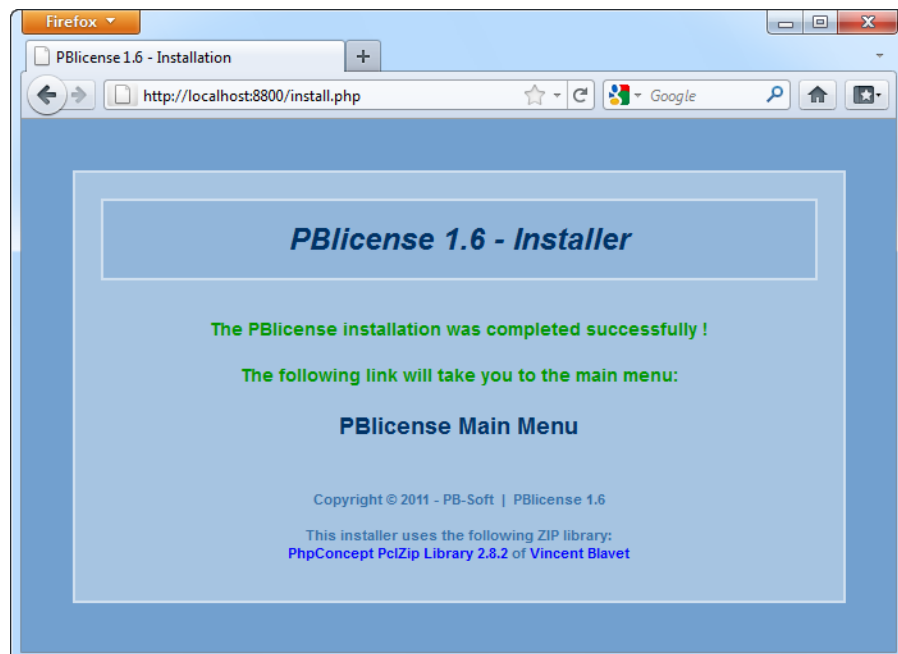
Please be sure that the checkbox "**Recurse into subdirectories**" is **NOT** selected:



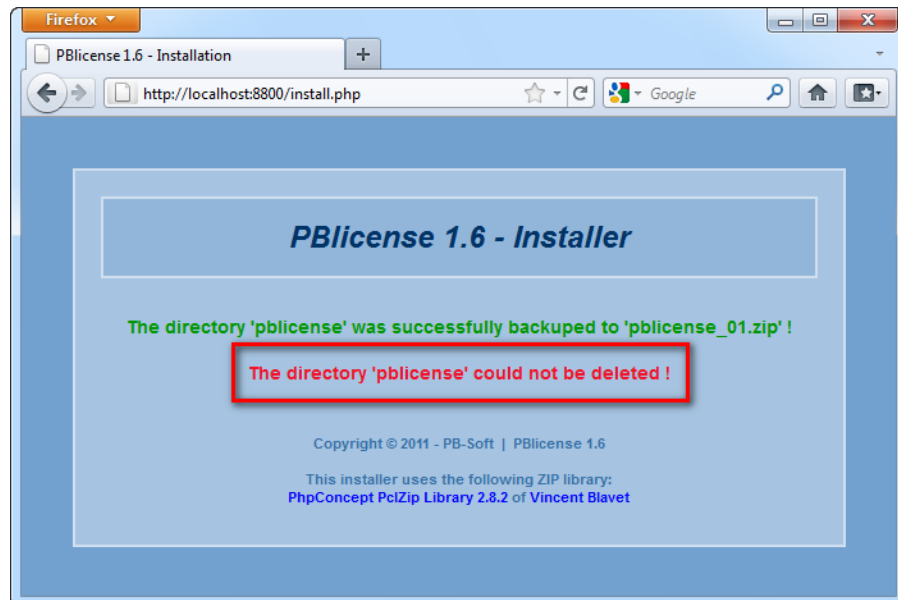
Then open a webbrowser and enter the path to the PBlicense installation file "**install.php**":



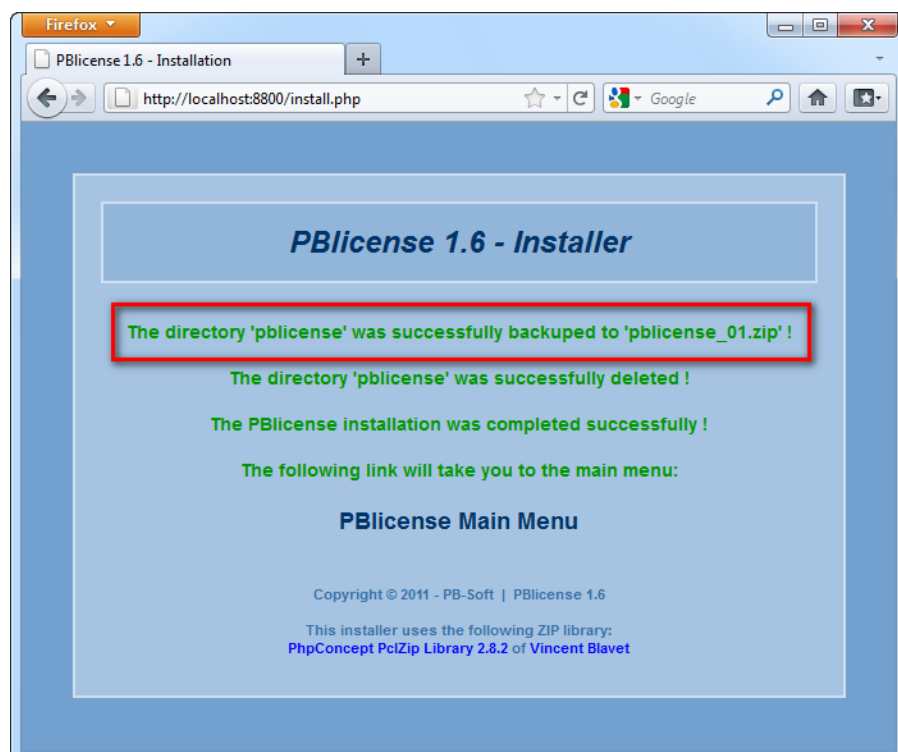
The installation script will backup an existing installation, unpack the new PBlicense application and if there are no errors a Link to the PBlicense Main Menu will be displayed:



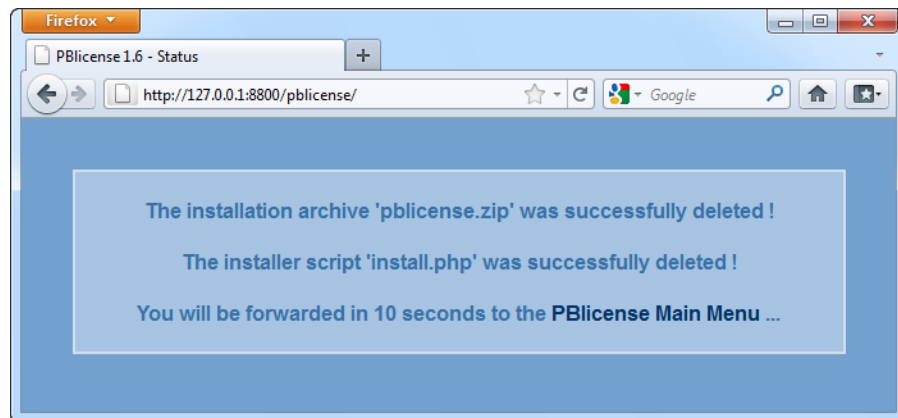
If there are errors during the installation the screen will display the error messages like on the example below. If that happens, please first check the write permissions of the directory:



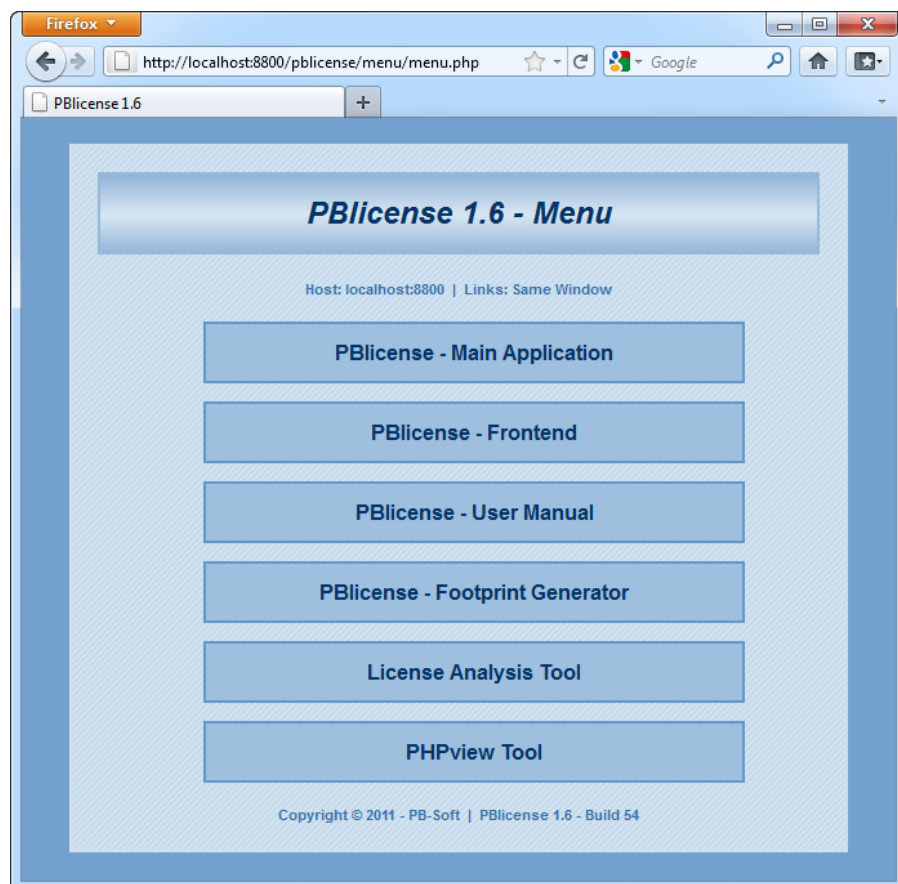
If there is an existing installation of PBlicense at the same location the installation script will make a backup and save the whole installation to the file "**pblicense_01.zip**" (the number can vary).



If you click on the link to the PBlicense Main Menu, the installation script "**install.php**" and the installation archive "**pblicense.zip**" will be removed and a message will inform you about the success of this operation:



After 10 seconds you will be forwarded to the PBlicense Main Menu like on the following image:

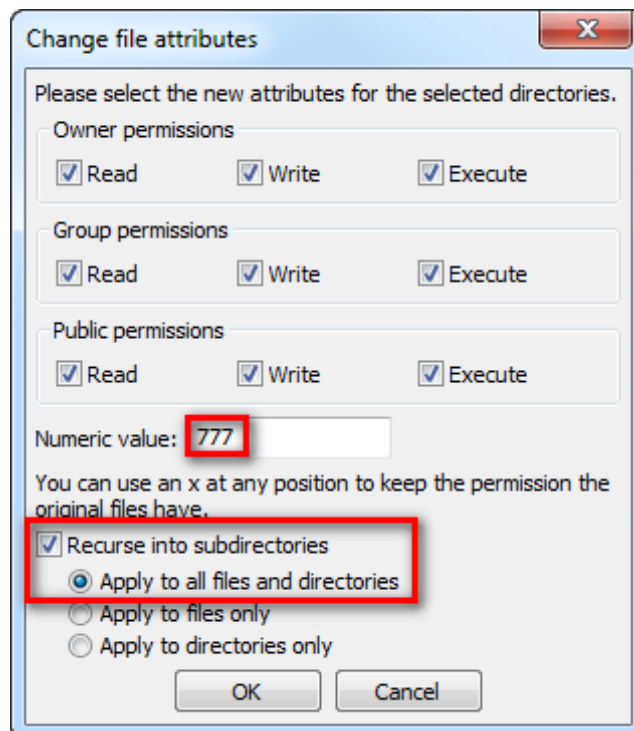


5.3 Check Directory Permissions

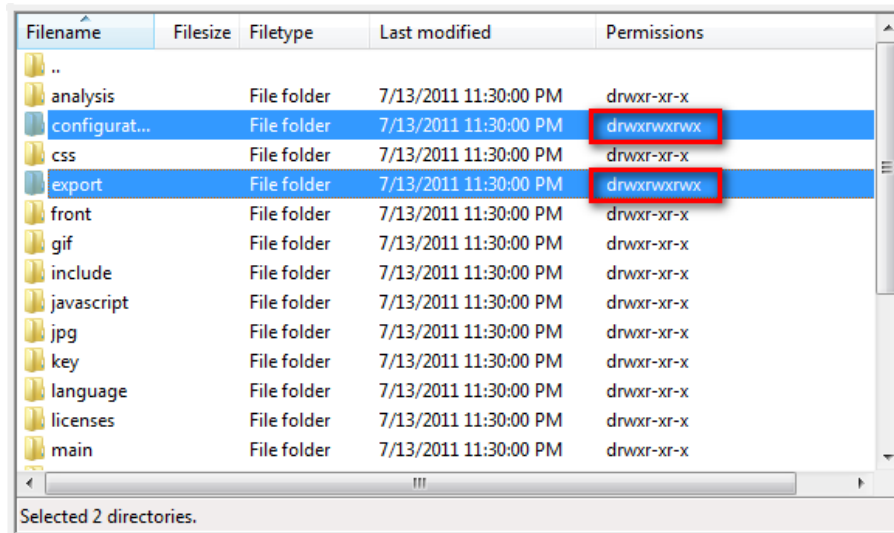
Just to be sure, check the directory permissions for the following two directories. These directories need to have the permissions set to **777** to have write access for the configuration and export files:

- **pblicense/configuration**
- **pblicense/export**

Make sure that here you **apply the permissions recursively!** That means that all subdirectories also will have the permissions set to **777**. With the Filezilla FTP client you can set the permissions in a special window:



After setting the permissions, the directory structure on your webserver should look similar to the following example (Filezilla screen):



| Filename | Filesize | Filetype | Last modified | Permissions |
|---------------|----------|-------------|-----------------------|-------------|
| .. | | | | |
| analysis | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |
| configurat... | | File folder | 7/13/2011 11:30:00 PM | drwxrwxrwx |
| css | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |
| export | | File folder | 7/13/2011 11:30:00 PM | drwxrwxrwx |
| front | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |
| gif | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |
| include | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |
| javascript | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |
| jpg | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |
| key | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |
| language | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |
| licenses | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |
| main | | File folder | 7/13/2011 11:30:00 PM | drwxr-xr-x |

Selected 2 directories.

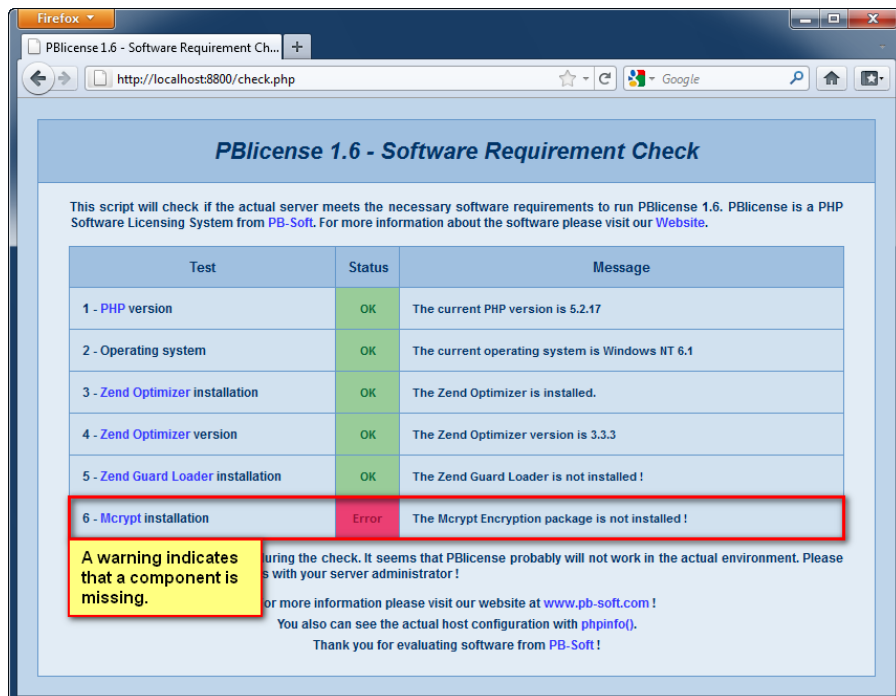
First try to set the permissions not to restrictive and after the script works ok you can successively put them more restrictive.

6 Installation Problems

If you have problems while installing or running PBlicense please check the following sections:

6.1 System Requirement Problems

If the system requirements are not adequate, it is possible that there are problems which are difficult to detect. You can run our PBlicense software requirement check script to see if there are no errors and the webserver meets the specific needs of PBlicense. Please download the script from our website at www.pb-soft.com.



If the script finds a problem (in the following example an old PHP version) a message will show the details:

| Test | Status | Message |
|-----------------|--------|---|
| 1 - PHP version | Error | The current PHP version 4.5.0 is not supported ! You need at least version 5.2.0 ! |

After upgrading to a newer PHP version the error disappears:

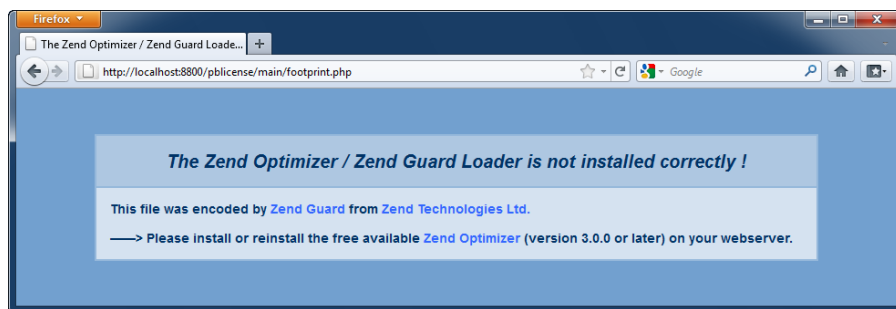
| Test | Status | Message |
|-----------------|--------|-----------------------------------|
| 1 - PHP version | OK | The current PHP version is 5.2.17 |

If all the status indicators are green, there should be no problem to run the PBlicense software on your host.

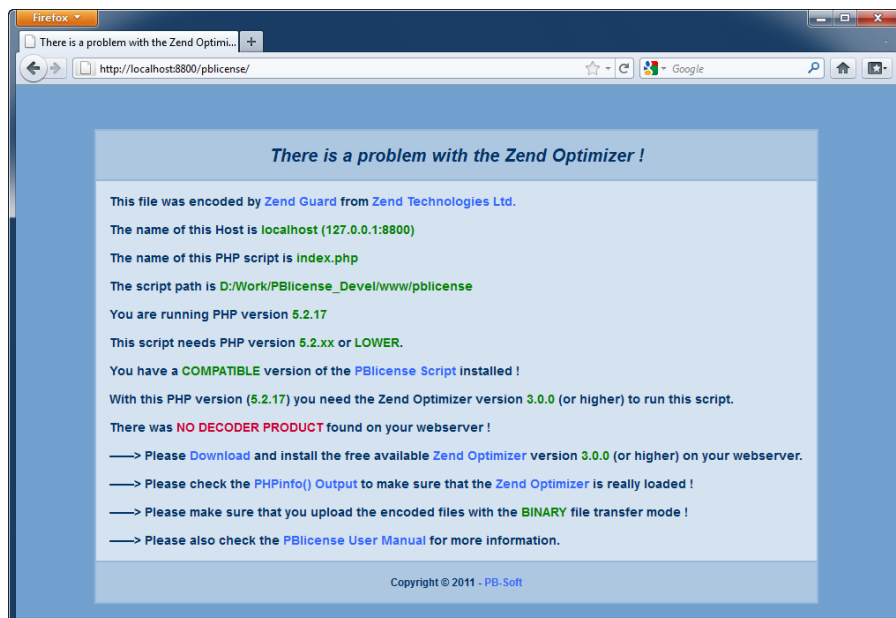
Please make sure that you use a trial license first to check if the PBlicense application works on your host!

6.2 Zend Optimizer not installed

Check if the **Zend Optimizer** or the **Zend Guard Loader** is installed on your server. A Zend decoder is necessary to run files encoded by one of the Zend encoders and it also can increase the runtime performance of the PHP scripts. If no Zend decoder is installed on the host or if it is not running correct, a message window will indicate the problem. Depending on the running script the information window can provide more or less information on solving the problem. The following image shows a screen with only few information:



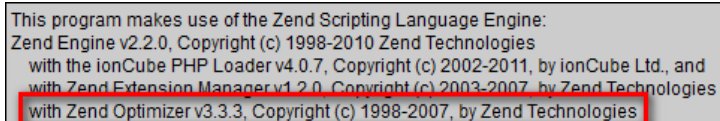
The next screen shows detailed information about the problem:



You can also check the **phpinfo()** output to check if the Zend Optimizer is installed and enabled or you can ask your hosting provider. If you check the **phpinfo()** output you should search for a text similar to the following (important text marked **red**):

This program makes use of the Zend Scripting Language Engine:
Zend Engine v2.2.0, Copyright (c) 1998-2010 Zend Technologies
with Zend Extension Manager v1.2.0, Copyright (c) 2003-2007,
by Zend Technologies
with **Zend Optimizer v3.3.3**, Copyright (c) 1998-2007, by Zend
Technologies

The following image shows this part from the **phpinfo()** output and how it should look on your host:



This program makes use of the Zend Scripting Language Engine:
Zend Engine v2.2.0, Copyright (c) 1998-2010 Zend Technologies
with the ionCube PHP Loader v4.0.7, Copyright (c) 2002-2011, by ionCube Ltd., and
with Zend Extension Manager v1.2.0, Copyright (c) 2003-2007, by Zend Technologies
with **Zend Optimizer v3.3.3**, Copyright (c) 1998-2007, by Zend Technologies

If there is no Zend decoder like Zend Optimizer or Zend Guard Loader installed on your host, please download a free copy from the [Zend Website \(http://www.zend.com\)](http://www.zend.com) and install it.

6.3 Wrong Zend Optimizer Version

Check if the correct Zend Optimizer or Zend Guard Loader is installed on your server. If your version of the Zend Optimizer is too old you will get an error message like:

Fatal error: Incompatible file format: The encoded file has format ID 2003120701, whereas the Optimizer can read up to 2002062301.

or something like:

Fatal error: Unable to read X bytes in /path/to/script/encoded_script.php on line 0.

or something like:

Fatal error: Maximum execution time in /path/to/script/encoded_script.php on line 1.

If you have an old version of Zend Optimizer or Zend Guard Loader installed on your host, please download a new version from the [Zend Website](http://www.zend.com) (<http://www.zend.com>) and install it.

6.4 Other Zend Optimizer Problems

The following output from the **phpinfo()** function displays three important settings which will be explained below. If one of these settings is wrong, the Zend Optimizer will not run on your host. Normally these settings are correct if you are using a third-party webhosting service. Please verify that the following settings are correct on your host:

| PHP Version 5.2.17 | |
|---|--|
| System | Windows NT PC4 6.1 build 7601 |
| Build Date | Jan 6 2011 17:26:08 |
| Configure Command | <pre>cscript /nologo configure.js "--enable-snapshot-build" "--enable-debug-pack" "--with-snapshot-template=d:\php-sdk\snap_5_2\vc6\x86\template" "--with-php-build=d:\php-sdk\snap_5_2\vc6\x86\php_build" "--with-pdo-oci=D:\php-sdk\oracle\instantclient10\sdk,shared" "--with-oci8=D:\php-sdk\oracle\instantclient10\sdk,shared" "--without-pi3web"</pre> |
| Server API | Apache 2.0 Handler |
| Virtual Directory Support | enabled |
| Configuration File (php.ini) Path | C:\Windows |
| Loaded Configuration File | D:\Work\PBlicense_Devel\php.ini |
| Scan this dir for additional .ini files | (none) |
| additional .ini files parsed | (none) |
| PHP API | 20041225 |
| PHP Extension | 20060613 |
| Zend Extension | 220060519 |
| Debug Build | no |
| Thread Safety | enabled |
| Zend Memory Manager | enabled |

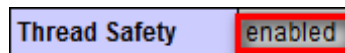
Debug Mode

If the debug mode is enabled in PHP the Zend Optimizer will not work. You can check this setting if you display the phpinfo() output. The setting "**Debug Build**" should be set to "**no**" for Windows, Unix and Linux hosts.

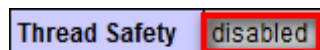
| | |
|-------------|----|
| Debug Build | no |
|-------------|----|

Thread Safety

If you are running the Zend Optimizer on a Windows host, the PHP should be compiled in the ZTS mode (multi-threaded environment). You can check this setting if you display the phpinfo() output. The setting "**Thread Safety**" should be set to "**enabled**" for Windows hosts.



If you are running the Zend Optimizer on a Linux/Unix host, the PHP should be compiled in the Non-ZTS mode (no multi-threaded environment). You can check this setting if you display the phpinfo() output. The setting "**Thread Safety**" should be set to "**disabled**" for Unix and Linux hosts.



Enable Versioning

If the enable versioning is enabled in PHP the Zend Optimizer will not work. You can check this setting if you display the phpinfo() output. The setting "**--enable-versioning**" should NOT be found in the "Configure Command" section on Windows, Unix and Linux hosts.

| | |
|-------------------|--|
| Configure Command | <pre> cscript /nologo configure.js "--enable-snapshot-build" "--enable-debug-pack" "--with-snapshot-template=d:\php-sdk\snap_5_2\vc6\x86\template" "--with-php-build=d:\php-sdk\snap_5_2\vc6\x86\php_build" "--with-pdo-oci=D:\php-sdk\oracle\instantclient10\sdk,shared" "--with-oci8=D:\php-sdk\oracle\instantclient10\sdk,shared" "--without-pi3web" </pre> |
|-------------------|--|

6.5 Wrong File Transfer Mode

If you upload all the files manually (without the PBlicense installer script) to your webserver you have to be sure that you upload nearly all php files in **Binary Mode** (please see the exceptions in the list below). That does not mean that you upload all files in binary mode because there are different kinds of files like pictures, text files or CSS files. Not all the files have to be uploaded in the same mode! Normally you can choose the file types which are uploaded in binary mode and which are uploaded in ASCII mode. Please check the settings of your FTP-Client. If you upload the encoded files in ASCII mode you will get errors like:

Fatal error: Unable to read ##### bytes in /path/to/script/encoded_script.php on line 0.

or something like:

Fatal error: Corrupted encoded data detected in /path/to/script/encoded_script.php on line 0.

Then please delete the encoded php files on the server and upload them again in binary mode. Normally you can specify the transfer modes ASCII or Binary in your FTP client application.

Attention: If you choose the mode "Auto" in your FTP-Client the php files normally will be uploaded in ASCII mode!

If you still have a problem, please contact our support (see support section at the end of this document). We are always glad to help you!

PHP Files which have to be uploaded in ASCII Mode:

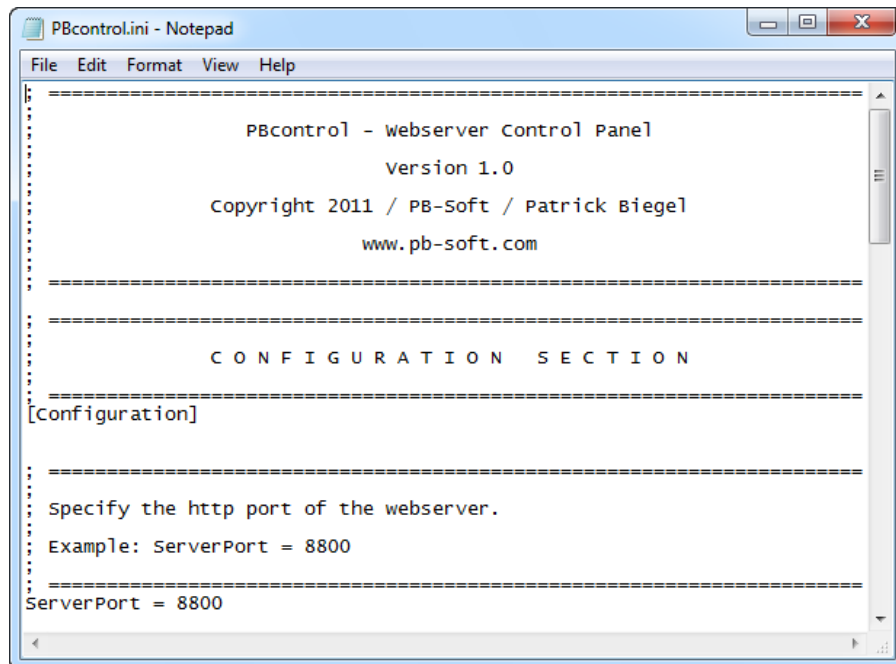
There are some exceptions for php files (7 files) which have to be uploaded in ASCII mode because they are not encoded. First you can upload all the php files in binary mode and then delete the following files and upload them but now in ASCII mode:

```
pblicense/test/application.php
pblicense/test/configuration.php
pblicense/test/product_1.php
pblicense/test/appl_long/application.php
pblicense/test/appl_short/application.php
pblicense/export/config/product_1.php
pblicense/export/config/product_2.php
```

7 Control Panel Configuration

The PBlicense control panel is only needed to manage the webserver of the installation type 1 (localhost). Therefore the control panel is not available and needed for the installation type 2 (external webserver).

Normally you do not have to edit the control panel configuration file "**PBcontrol.ini**" but sometimes it is necessary. If the control panel is running and you press the shortcut **CTRL + SHIFT + C** the configuration file will be opened:



The control panel configuration file "**PBcontrol.ini**" is located in the directory "**PBlicense/conf/PBcontrol.ini**".

7.1 ServerPort

You can change the default port of the webserver (default: 8800) to another port like 80. Therefore you have to edit the following line in the control panel configuration file (changes marked **red**):

```
; =====  
;  
; Specify the http port of the webserver.  
;  
; Example: ServerPort = 8800  
;  
; =====  
ServerPort = 8800
```

and change it to:

```
ServerPort = 80
```

After this change you have to delete the application path so that the control panel application will update the whole configuration at the next start. Therefore you have to edit the following line in control panel configuration file (changes marked **red**):

```
; =====  
;  
; Specifies the path of the control panel  
; application. If the path does not match the real  
; path, the tool will try to update the webserver  
; configuration and insert the actual path. This  
; setting does not have to be changed manually !  
;  
; Example: ApplPath = C:/PBlicense  
;  
; =====  
ApplPath = C:\Downloads\PBlicense
```

and change it to:

```
ApplPath =
```

Now you have to close the control panel (button "**Exit**") and start it again (run "**PBcontrol.exe**"). At the next start of the control panel, the tool will check the application path and realizes that the path is not correct. Then it will update the whole configuration including the changed port of the webserver.

7.2 TextApplication

You can also specify your favorite text editor which will be used to display the configuration files. Therefore you have to edit the following line in control panel configuration file (changes marked **red**):

```
; =====  
;  
; Specify the path to the application which will be  
; used to display the actual configuration. Normally  
; this should be a text editor like notepad from  
; windows or your favorite text editor.  
;  
; Example: TextApplication = C:\Windows\notepad.exe  
;  
; =====  
TextApplication = C:\Windows\notepad.exe
```

and change it (as an example) to:

```
TextApplication = C:\Programs\PSPad\PSPad.exe
```

After this change you only have to restart the control panel. You do NOT have to delete the application path and update the whole configuration!

7.3 SaveWinPos

You can also specify if the window position of the control panel should be saved automatically if you exit the control panel application. Therefore you have to edit the following line in control panel configuration file (changes marked **red**):

```
; =====  
;  
; Specify if the position of the control panel window  
; has to be saved when the control panel is closed  
; with the button 'Exit'.  
;  
; Example: SaveWinPos = 0  
;  
; =====  
SaveWinPos = 0
```

and change it to:

```
SaveWinPos = 1
```

After this change you only have to restart the control panel. You do NOT have to delete the application path and update the whole configuration!

8 Control Panel Usage

The PBlicense control panel is only needed to manage the webserver of the installation type 1 (localhost). Therefore the control panel is not available and needed for the installation type 2 (external webserver).

To start the webserver press the button "**Start**". Then the webserver will be started and the status panel changes to green, indicating that the webserver is ready. Per default the PBlicense webserver will listen on the IP address **127.0.0.1** (localhost) and port **8800**:



8.1 Start / Restart

If the webserver is running, the button "**Start**" will change to "**Restart**" and therefore you can restart the webserver if needed if you press this button.

8.2 Stop

The button "**Stop**" will stop the webserver but the control panel will still be available. You can use this button if you want to stop the webserver and edit a configuration file.

8.3 Menu

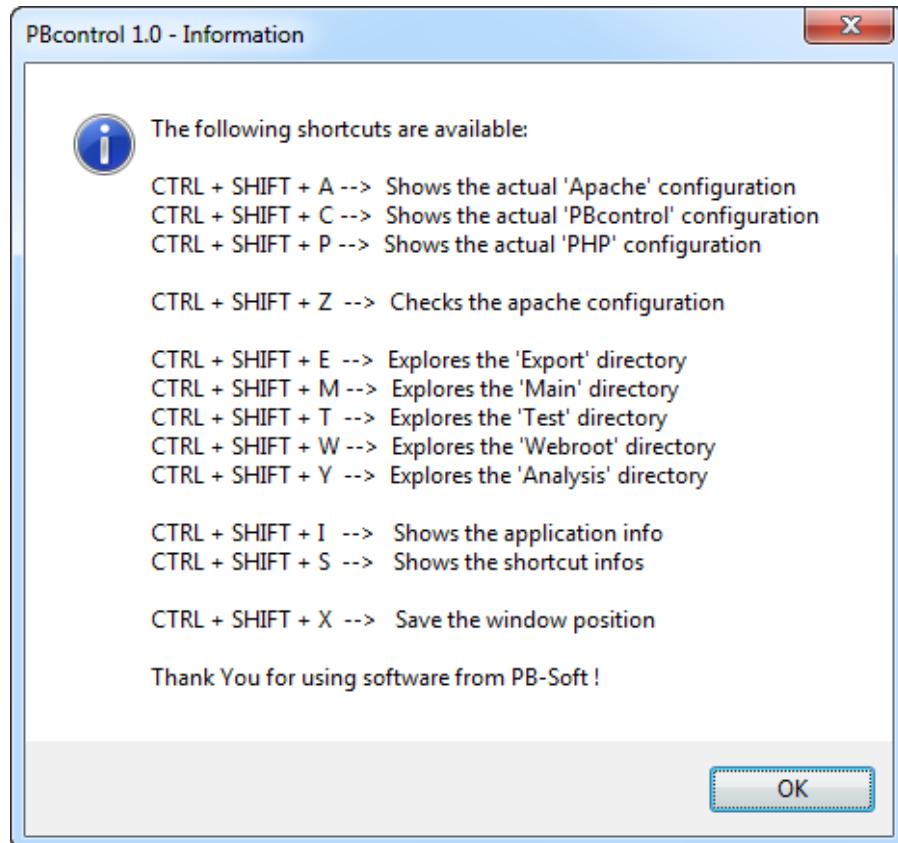
The button "**Menu**" will open the PBlicense "**User Login**" in the default webbrowser. After you login, the PBlicense "**Main Menu**" will be displayed.

8.4 Exit

The button "**Exit**" will stop the webserver (if the webserver is running) and then exit the control panel.

8.5 Shortcuts

There are different keyboard shortcuts available. If you press the keys **CTRL + SHIFT + S** all available shortcuts will be displayed in a window:



The first three shortcuts will open the configuration files:

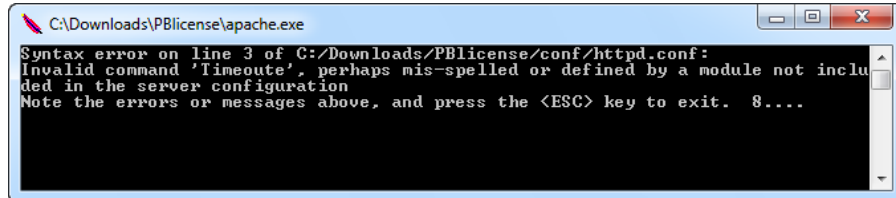
CTRL + SHIFT + A: Apache configuration "**httpd.conf**"

CTRL + SHIFT + C: Control panel configuration "**PBcontrol.ini**"

CTRL + SHIFT + P: PHP configuration "**php.ini**"

Normally it should not be necessary to change these configuration files but sometimes it can be necessary especially if you want to use a specialized configuration to fit your needs.

The shortcut **CTRL + SHIFT + Z** will test the webserver configuration "**httpd.conf**" and will display error messages if the syntax in the configuration file is not correct:



If the black command window just opens and closes again, the webserver configuration is correct. Normally the webserver configuration should not contain syntax errors but if you edit the webserver configuration file "**httpd.conf**" this is a good way to check the functionality before starting the webserver.

The next five shortcuts open different directories with the windows explorer:

CTRL + SHIFT + E opens the PBlicense export directory. All files generated by PBlicense (like the code, configurations, licenses and logs) and also the necessary files to include in your own projects (like the footprint generator and the validation engine) will be stored there.

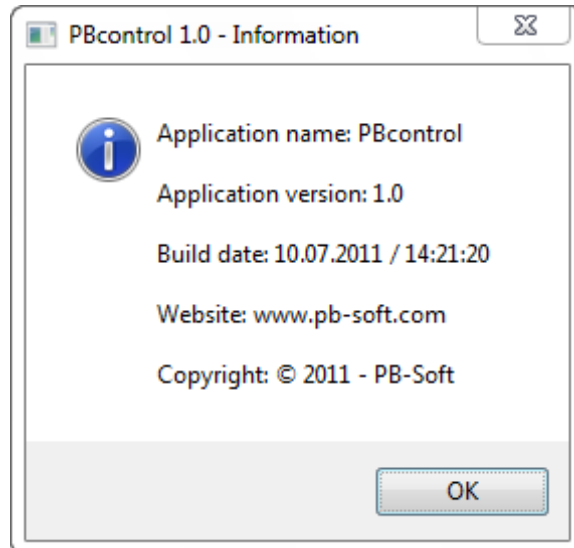
CTRL + SHIFT + M opens the PBlicense main directory. This is the place where you have to copy your valid license file.

CTRL + SHIFT + T opens the PBlicense test directory. Here you will find some small test applications which can be used to test and understand the way the PBlicense application works.

CTRL + SHIFT + W opens the webroot directory. This directory contains all data provided to the clients, in our case the "**pblicense**" directory.

CTRL + SHIFT + T opens the PBlicense analysis directory. This directory contains the License Analysis Tool which can be used to analyze a license file and check if the license is valid.

The shortcut **CTRL + SHIFT + T** displays some information about the PBlicense control panel like the application version and the build date and time:



The shortcut **CTRL + SHIFT + X** will save the actual window position of the PBlicense control panel. If you save the position, the window will open at the same position at the next start of the control panel.

9 Start PBlicense

9.1 Installation Type 1

If you use the installation type 1 (local webhost), the easiest way to start PBlicense, is to click on the button **"Menu"** on the webserver control panel like indicated on the picture below:



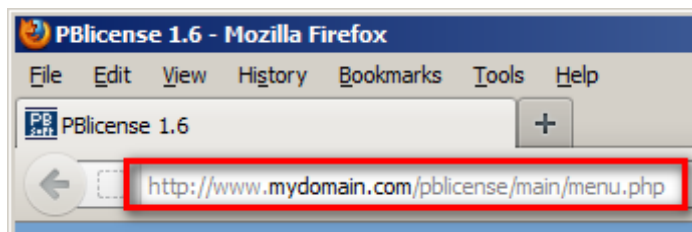
The **"User Login"** screen will be displayed in your default webbrowser.

9.2 Installation Type 2

If you are using the installation type 2 (external webhost), please enter the following direction in your browser and replace the **green part** with the path to your webhost (domain) and then the path to your PBlicense directory:

http://www.mydomain.com/pblicense_dir/main/menu.php

As an example the direction to the PBlicense directory entered in the Firefox browser:



The **"User Login"** screen will be displayed in your webbrowser.

10 Login to PBlicense

If the "User Login" screen is displayed, you can login with the default username and password:

The image shows a web-based login interface for PBlicense 1.6. It features a blue-themed design with a central white box containing the login form. At the top of the box is the title "PBlicense 1.6 - User Login". Below the title, a message instructs the user to use default login data and create a new user, providing the default credentials: Username: Admin and Password: test12. The login form consists of two input fields labeled "Username:" and "Password:", each followed by a text box. Below the input fields are two buttons: "Reset" and "Login". At the bottom of the form, the copyright information "Copyright © 2012 - PB-Soft | PBlicense 1.6 - Build 60" is displayed.

PBlicense 1.6 - User Login

Please use this default login data
and then create a new user:

Username: **Admin**
Password: **test12**

Username:

Password:

Copyright © 2012 - PB-Soft | PBlicense 1.6 - Build 60

The default login data is only displayed on the login screen if you did not already create a new user. You can login with the default login data:

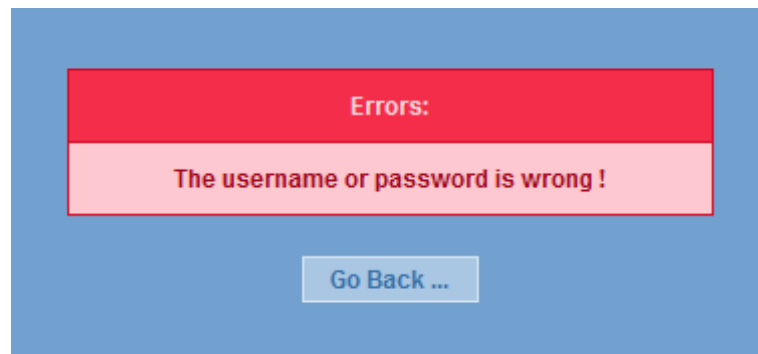
Username: **Admin**

Password: **test12**

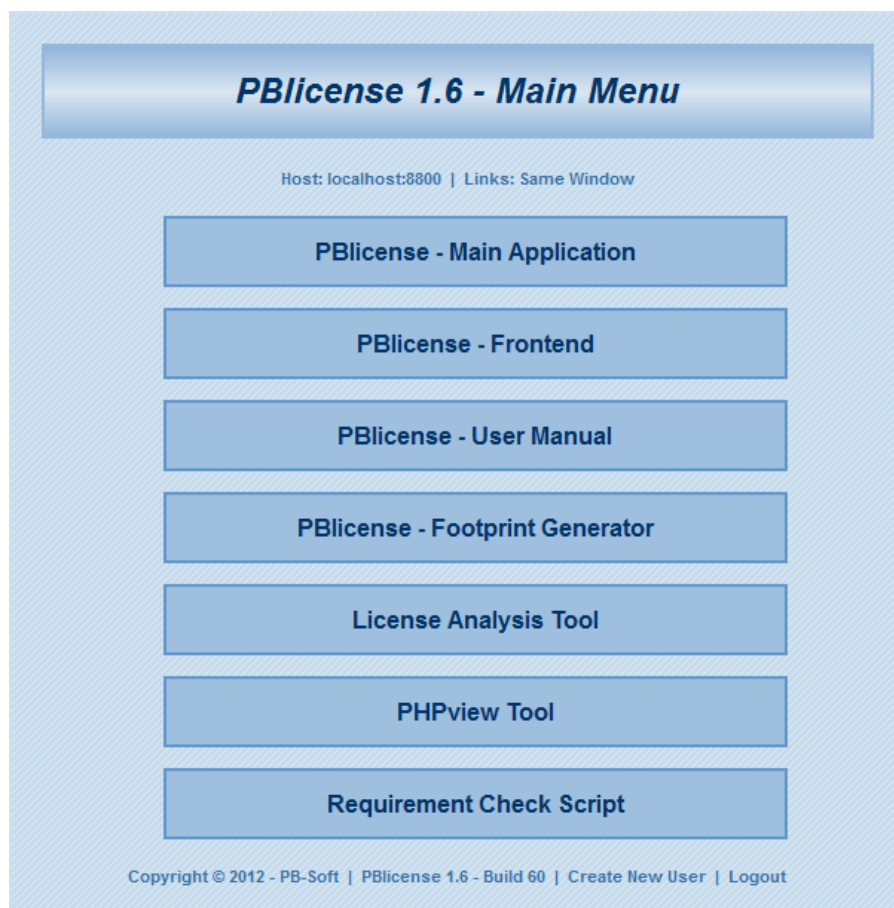
Please be sure that you enter the password exactly like showed above.

The passwords are always case-sensitive!

If the login is incorrect you will be warned with the following message:

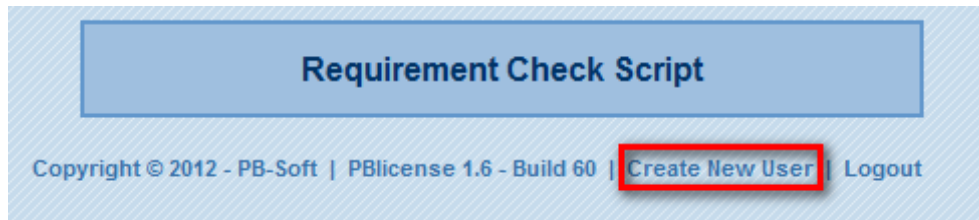


If both, the username and password is correct, the PBlicense "**Main Menu**" will be displayed:



11 Create a new User

Below the last button on the "**Main Menu**" you will see the links "**Create New User**". To create a new user account press this link:



The "**Add New User**" form will be displayed and you can insert a new username and a corresponding password:

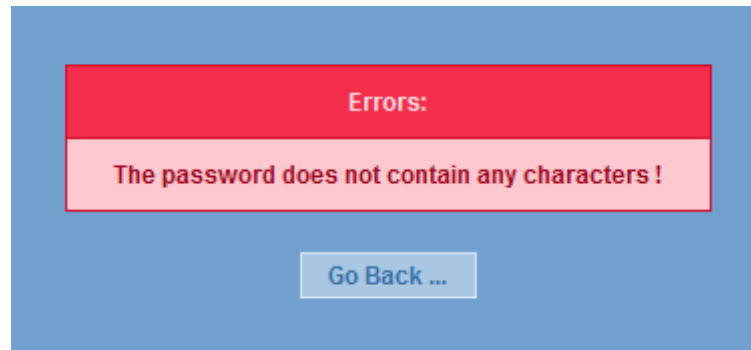
A screenshot of the "PBlicense 1.6 - Add New User" form. The form is titled "PBlicense 1.6 - Add New User" and contains three input fields: "Username:" with the value "Peter", "Password 1:" with six dots, and "Password 2:" with six dots. Below the input fields are two buttons: "Reset" and "Save". At the bottom of the form is a "Go Back ..." button. The footer of the form area contains the text "Copyright © 2012 - PB-Soft | PBlicense 1.6 - Build 60".

The password has to contain characters and numbers and has to be at least 6 characters long.

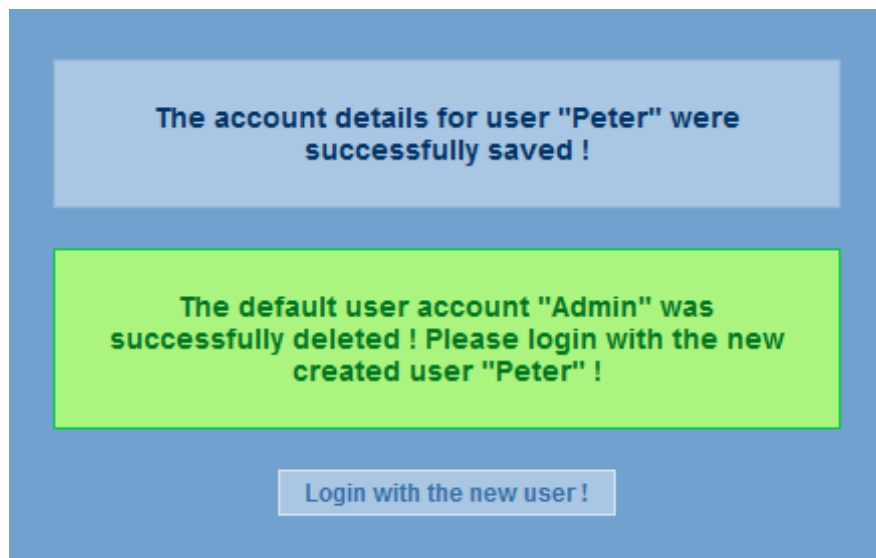
Passwords like "j3yS94j", "12Tau\$ab" or "Re35tOol" are valid.

Passwords like "peter", "12042012" or "rolf\$" are not valid!

You have to enter the new password twice (Field "**Password 1**" and field "**Password 2**") to be sure that there are no typing errors. If the password is not valid an error message will be displayed:

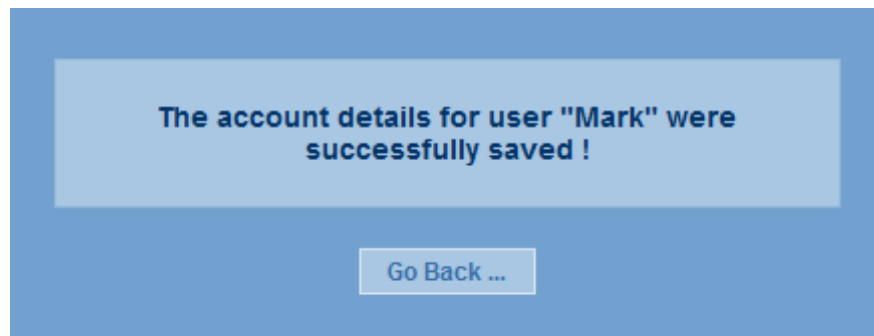


If the new username and password are correct, the new user account will be created. If you have created the first new user, the default user "**Admin**" will be deleted automatically for security reasons. The default user is the same on all PBlicense installations and therefore has to be eliminated. An information screen will be displayed:



If you press the button "**Login with the new user !**" you will be transferred to the login screen where you have to login with the new username and password.

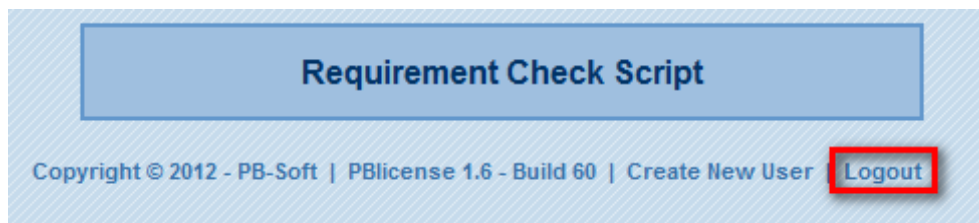
If you later add some other users, the following screen will be displayed:



If you press the button **"Go Back ..."** you will get to the **"Add New User"** form. Then you can add another new user or press the button **"Go Back ..."** to go to the main menu.

12 Logout from PBlicense

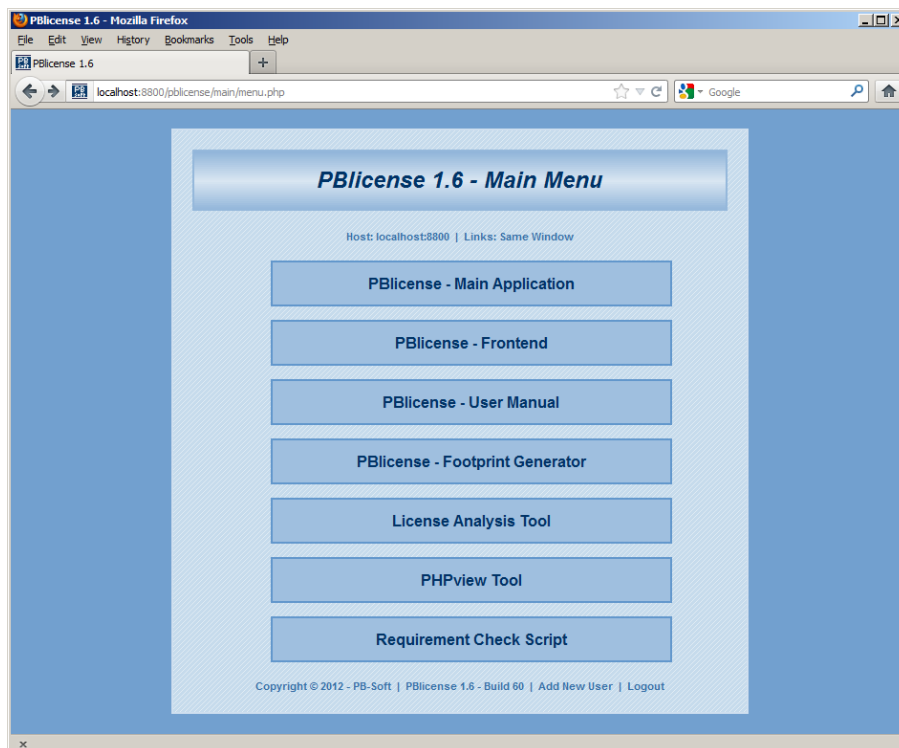
To logout from the PBlicense application press the link **"Login"** on the main menu:



You will get to the **"User Login"** screen and you can login with another username and password.

13 PBlicense Main Menu

The PBlicense Main Menu provides access to different tools which will be explained on the next few pages:



Per default all the links and therefore tools will be opened in the same browser tab. If you want to open them in a new browser tab, please first click on the link "**Same Window**". The link will change to "**New Window**" and all links will open in a new browser tab.

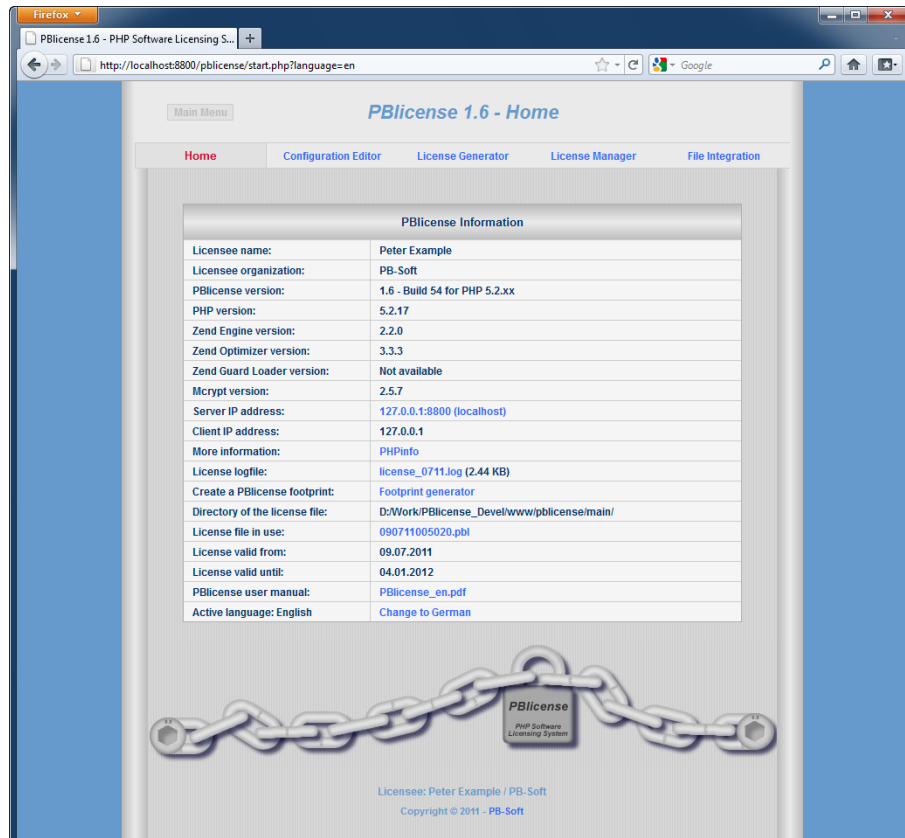


... will change to:



13.1 PBlicense - Main Application

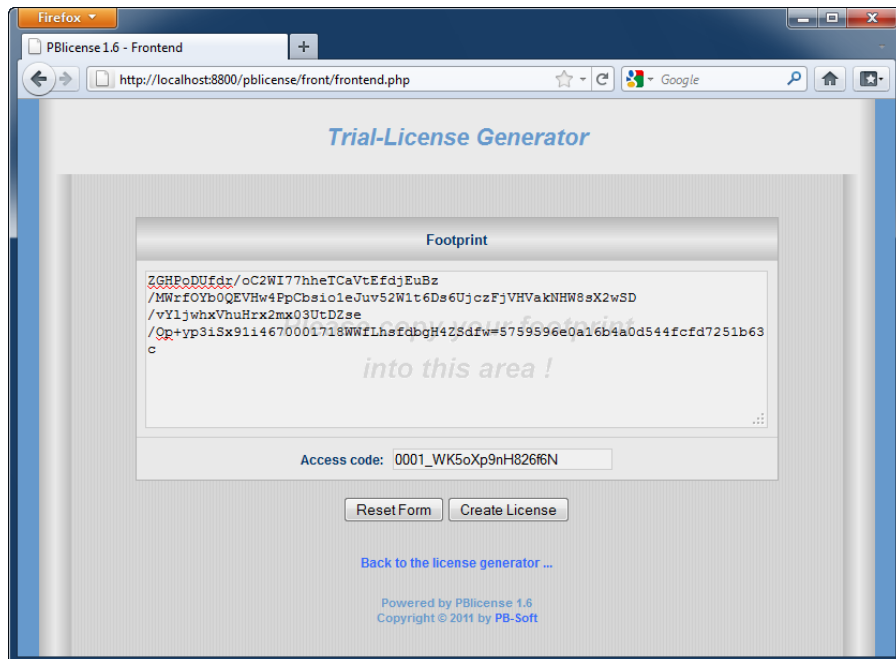
The PBlicense main application is used to create new product configurations using the "**Configuration Editor**", generate license files using the "**License Generator**", display information about existing licenses using the "**License Manager**" and include the PBlicense components into your own projects using the "**File Integration**" area.



Please check the special chapter about using the PBlicense main application!

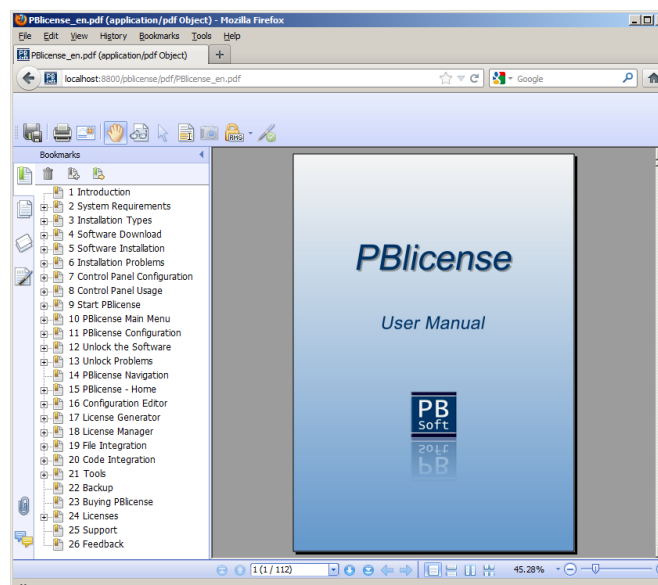
13.2 PBlicense - Frontend

The PBlicense frontend can be used to let the visitors create their own trial licenses. It can be configured that every user can create as many licenses as he wants or you can limit the license creation and the users have to enter an access code to create a license:



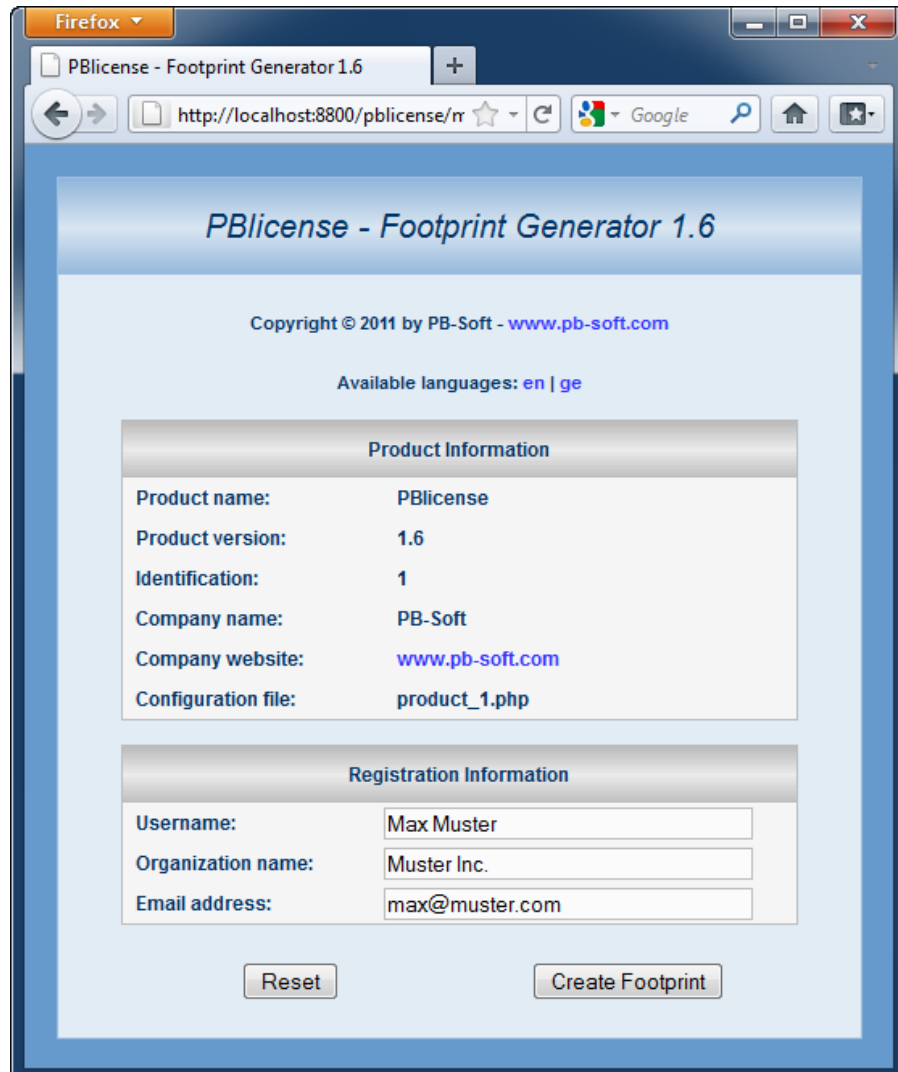
13.3 PBlicense - User Manual

This link will display this user manual in your favorite PDF viewer:



13.4 PBlicense - Footprint Generator

The footprint generator is needed to create a PBlicense footprint code which is necessary to create a customized license file for the PBlicense application:



The screenshot shows a web browser window with the title "PBlicense - Footprint Generator 1.6". The address bar shows the URL "http://localhost:8800/pblicense/r". The page content includes the title "PBlicense - Footprint Generator 1.6", the copyright notice "Copyright © 2011 by PB-Soft - www.pb-soft.com", and the available languages "en | ge".

| Product Information | |
|---------------------|--|
| Product name: | PBlicense |
| Product version: | 1.6 |
| Identification: | 1 |
| Company name: | PB-Soft |
| Company website: | www.pb-soft.com |
| Configuration file: | product_1.php |

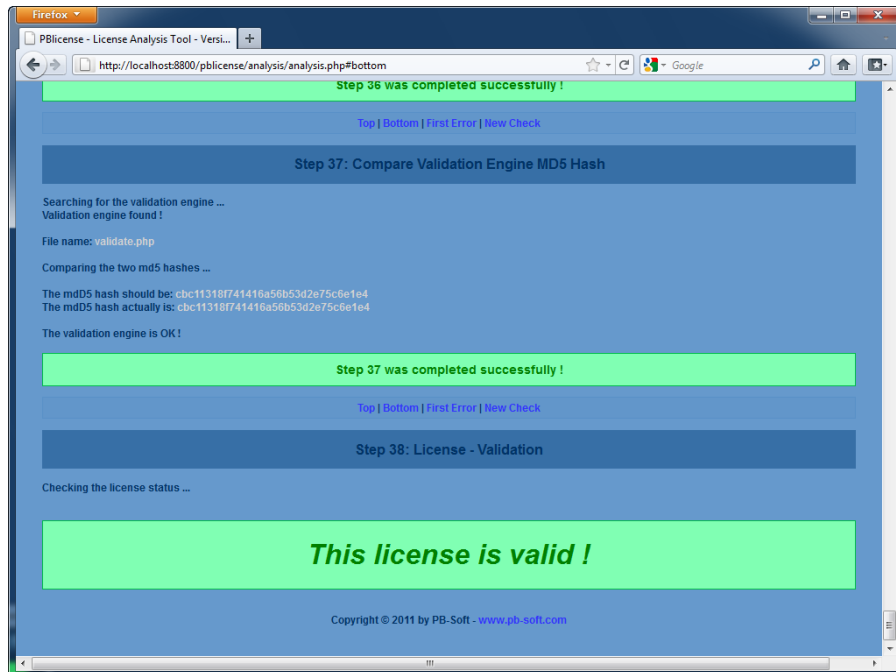
| Registration Information | |
|--------------------------|---|
| Username: | <input type="text" value="Max Muster"/> |
| Organization name: | <input type="text" value="Muster Inc."/> |
| Email address: | <input type="text" value="max@muster.com"/> |

At the bottom of the form, there are two buttons: "Reset" and "Create Footprint".

The usage will be explained in the chapter which explains how to unlock the PBlicense application.

13.5 License Analysis Tool

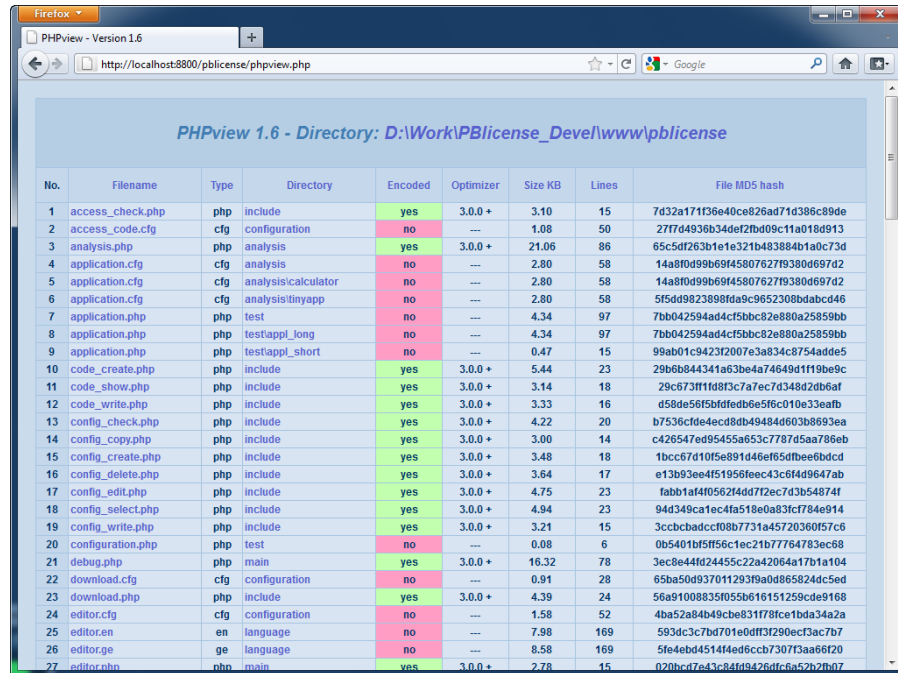
The license analysis tool is used to analyze an existing license file. You have to copy the license to be checked into the directory of the analyzing script "**pblicense/analysis/**" and then also edit the configuration file "**application.cfg**" and enter all the user - and system-information needed. After running the analysis script the result will be displayed:



If you want to remove the license analysis tool from the system and from the main menu, you only have to delete the directory "**pblicense/analysis**". The button "**License Analysis Tool**" then will be removed from the main menu.

13.6 PHPview Tool

The "**PHPview Tool**" will display information about the files inside the directory "**pblicense**":

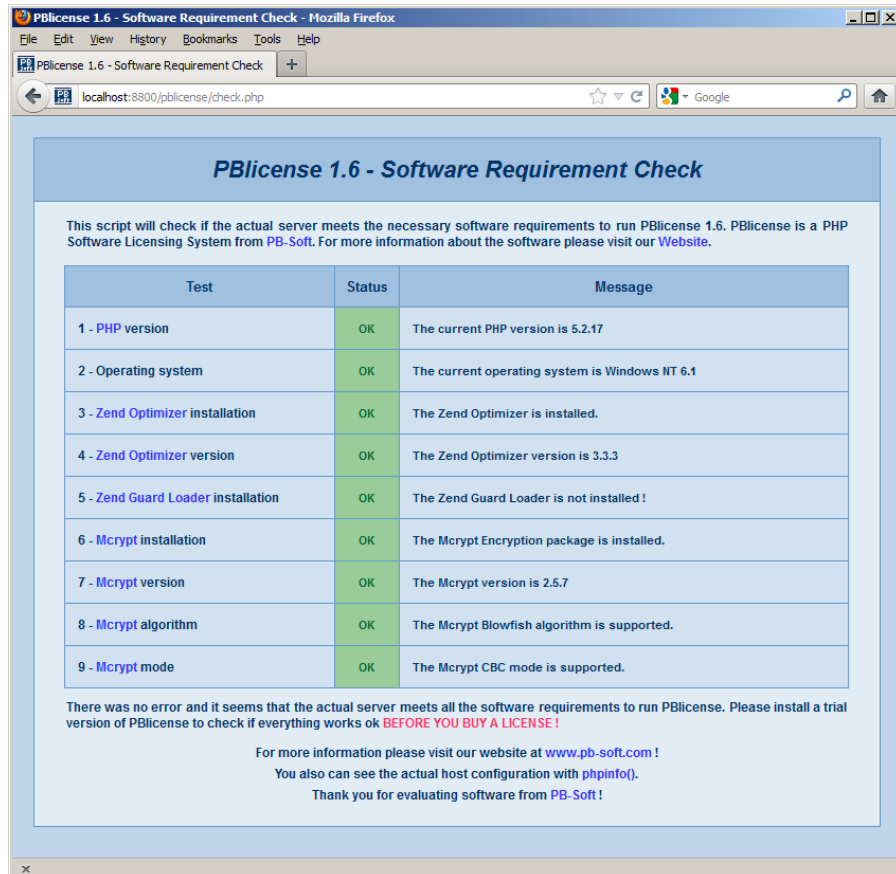


| No. | Filename | Type | Directory | Encoded | Optimizer | Size KB | Lines | File MD5 hash |
|-----|-------------------|------|---------------------|---------|-----------|---------|-------|----------------------------------|
| 1 | access_check.php | php | include | yes | 3.0.0 + | 3.10 | 15 | 7d32a171f36e40ce826ad71d386c89de |
| 2 | access_code.cfg | cfg | configuration | no | --- | 1.08 | 50 | 2777d4936b34def2fbd09c11a018d913 |
| 3 | analysis.php | php | analysis | yes | 3.0.0 + | 21.06 | 86 | 65c5df263b1e1e321b483884b1a0c73d |
| 4 | application.cfg | cfg | analysis | no | --- | 2.80 | 58 | 14a8f0d99b69f45807627f9380d697d2 |
| 5 | application.cfg | cfg | analysis/calculator | no | --- | 2.80 | 58 | 14a8f0d99b69f45807627f9380d697d2 |
| 6 | application.cfg | cfg | analysis/tinyapp | no | --- | 2.80 | 58 | 5f5d9823898fda9c9652308bdabdc46 |
| 7 | application.php | php | test | no | --- | 4.34 | 97 | 7bb042594ad4cf5bbc82e880a25859bb |
| 8 | application.php | php | test/appl_long | no | --- | 4.34 | 97 | 7bb042594ad4cf5bbc82e880a25859bb |
| 9 | application.php | php | test/appl_short | no | --- | 0.47 | 15 | 99ab01c9423f2007e3a834c8754adde5 |
| 10 | code_create.php | php | include | yes | 3.0.0 + | 5.44 | 23 | 29b6b844341a63be4a74649d1f19be9c |
| 11 | code_show.php | php | include | yes | 3.0.0 + | 3.14 | 18 | 29c673f1f1d8f3c7a7ec7d348d2dbaf |
| 12 | code_write.php | php | include | yes | 3.0.0 + | 3.33 | 16 | d58de56f5bdfed6be5f6c010e33eafb |
| 13 | config_check.php | php | include | yes | 3.0.0 + | 4.22 | 20 | b7536cfde4ecd8db49484d603b8693ea |
| 14 | config_copy.php | php | include | yes | 3.0.0 + | 3.00 | 14 | c426547ed95455a653c7787d5aa786eb |
| 15 | config_create.php | php | include | yes | 3.0.0 + | 3.48 | 18 | 1bcc67d10f5e891d46ef65dfbee6bdc |
| 16 | config_delete.php | php | include | yes | 3.0.0 + | 3.64 | 17 | e13b93ee4f51956f6ec43c6f4d9647ab |
| 17 | config_edit.php | php | include | yes | 3.0.0 + | 4.75 | 23 | fab1a1af40562f4dd72ec7d3b54874f |
| 18 | config_select.php | php | include | yes | 3.0.0 + | 4.94 | 23 | 94d349ca1ec4fa518e0a83cf784e914 |
| 19 | config_write.php | php | include | yes | 3.0.0 + | 3.21 | 15 | 3ccbcbaadccf08b7731a5720360f57c6 |
| 20 | configuration.php | php | test | no | --- | 0.08 | 6 | 0b5401bf5ff56c1ec21b77764783ec88 |
| 21 | debug.php | php | main | yes | 3.0.0 + | 16.32 | 78 | 3ec8e44f024455c22a42064a17b1a104 |
| 22 | download.cfg | cfg | configuration | no | --- | 0.91 | 28 | 65ba50d937011293f9a0d865824dc5ed |
| 23 | download.php | php | include | yes | 3.0.0 + | 4.39 | 24 | 56a91008835f055b616151259cde9168 |
| 24 | editor.cfg | cfg | configuration | no | --- | 1.58 | 52 | 4ba52a84b49cbe831f78fce1bda34a2a |
| 25 | editor.en | en | language | no | --- | 7.98 | 169 | 593dc3c7bd701e0dff3f290ecf3ac7b7 |
| 26 | editor.ge | ge | language | no | --- | 8.58 | 169 | 5fe4ebd4514f4ed6ccb730733aa66f20 |
| 27 | editor.php | php | main | yes | 3.0.0 + | 2.78 | 15 | 020bc47e43c84f49426dfc6a52b2fb07 |

If you want to remove this tool from the system and from the main menu, you only have to delete the file "**phpview.php**" in the directory "**pblicense**". The button "**PHPview Tool**" then will be removed from the main menu.

13.7 Requirement Check Script

The "**Requirement Check Script**" will display information about the actual webhost and check if the installation meet the requirements to run PBlicense without problems:



If all status indicators are green, there should be no problems to run PBlicense. If an indicator is red you can get some information about the failing component. Please try to install/update this component or contact your webmaster.

14 PBlicense Configuration

14.1 Edit the main Configuration File

Attention: If you use the PBlicense software in trial mode don't change the username and organization data in the configuration file, just use the existing example username and organization!

Please open the file "**pblicense/configuration/pblicense.cfg**" in your favorite text editor:

Please insert your username (line 7) and organization (line 8):

```
// =====  
// Specify the username / organization.  
// =====  
$pblicense_username      = "Peter Example";  
$pblicense_organization = "Example Inc.";
```

Please specify the preferred default language (line 14). English (en) and German (ge) is available:

```
// =====  
// Specify the default language.  
// =====  
$language = "en";
```

Those were the most important settings. This name and organization settings are necessary to activate a personalized license file.

Maybe you want to change some other settings later like the default time zone, the screen size or the log file settings ...

14.2 Edit the License Generator Configuration File

Please open the file "**pblicense/configuration/license.cfg**" in your favorite text editor:

Please specify which clients have access to the license generator (line 43). Here you have to specify an IP-Address or range like the following examples:

```
www.xxx.yyy.zzz      => 212.56.123.45
www.xxx.yyy          => 212.56.123
www.xxx              => 212.56
www                  => 212
```

You can specify different addresses / ranges. If you specify some addresses / ranges you should delete the entry "all". With the entry "all" everyone has access to the license generator:

```
// =====
// Specify from which IP addresses the application
// can be used.
// =====
$access_ip[] = "all";
```

Please insert a string for the e-mail message-id (line 66):

```
// =====
// Specify which name will appear in the message ID.
// The message-ID will look something like this:
// "PB4312b260a2@pb-soft.com". It's made with a
// random number but you can choose the part after
// the "@" sign.
// =====
$message_id = "example.com";
```

Please specify the sender name (line 92) and address (line 93) for the e-mails which will be sent:

```
// =====
// Specify the sender name and e-mail address.
// =====
$sender_name      = "Example Inc.";
$sender_address   = "sales@example.com";
```

Please specify the address for e-mail replies (line 99):

```
// =====  
// Specify the e-mail address for replies.  
// =====  
$reply_address = "sales@example.com";
```

Please specify the address for errors (line 105):

```
// =====  
// Specify the e-mail address for errors.  
// =====  
$error_address = "admin@example.com";
```

Please specify the address for returning e-mails (line 111):

```
// =====  
// Specify the e-mail address for returning e-mails.  
// =====  
$return_address = "sales@example.com";
```

Please specify the x-mailer content (line 117):

```
// =====  
// Specify the x-mailer content of your e-mails.  
// =====  
$xmailer = "PBlicense 1.6 - www.example.com";
```

14.3 Create new Product Keys

Each product (script / application) needs a unique product key. This is necessary that someone else who uses PBlicense can't make license files for your products and it also is used as the encryption key for the license file. So the product keys have to be at least 20 characters long and please keep them secret!

Please open the file "**pblicense/key/key.cfg**" in your favorite text editor and enter some new product keys into the key file:

```
// =====  
// Product encryption keys (minimum length 20  
// characters).  
// =====  
//      12345678901234567890123456789  
$product_key[1] = 93jd75jhg83ytfj49fuj439tj49";  
$product_key[2] = 0gkt9058743jew8723hd874jre8";
```

You can enter all the 10 keys or just one or two. But remember: You need product keys to create new product configurations! For each of your product you need to have a product key.

Attention: Please be sure that nobody can access your key file via Internet or another network!

You also have the possibility to store this important file outside the document root and then specify the path in the path configuration file "**pblicense/configuration/path.cfg**". Please search for the following entry (line 90):

```
// =====  
// Define the path to the product encryption key file  
// =====  
define("KEY_DIR", "key");  
define("KEY_PATH_ABS", SITE_PATH_ABS."/".KEY_DIR);
```

That's it! Now you can save and upload the configuration files to your webserver!

15 Unlock the Software

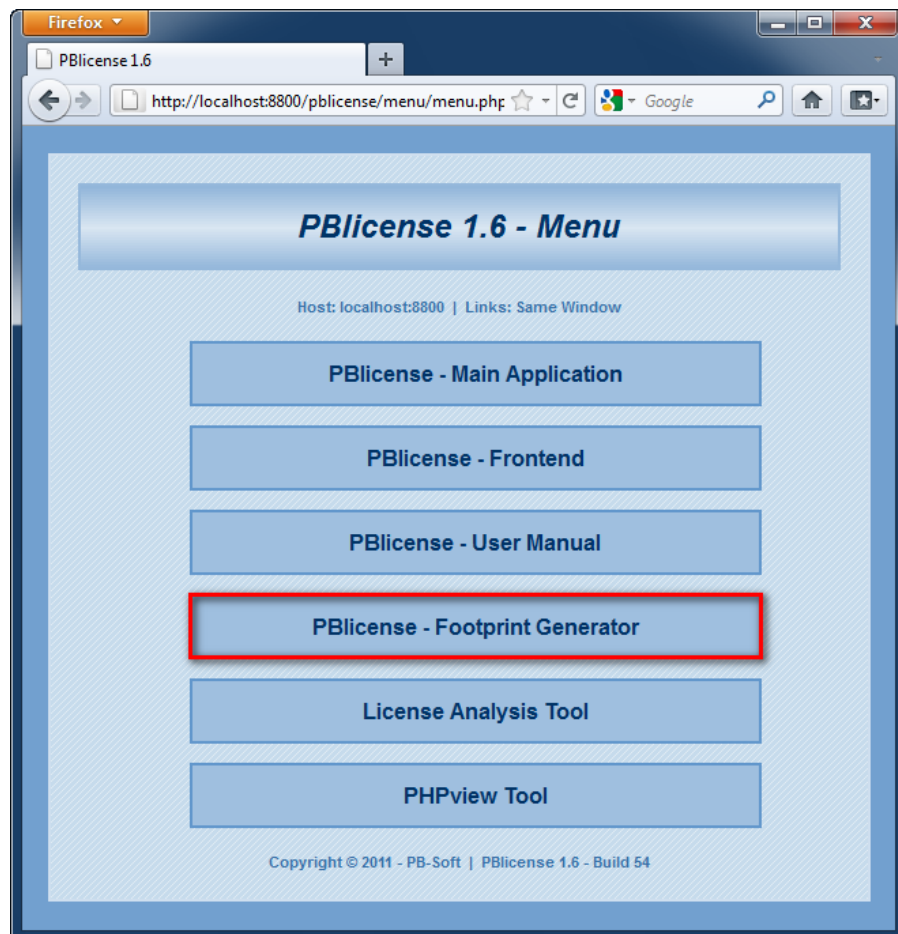
Now the PBlicense installation should be OK and the PBlicense software is running with the trial license. With the trial license you can test the PBlicense application for at least one month before you have to decide if you want to buy the software. If you need more time to evaluate our product please contact us.

Please make sure that you use a trial license first to check if the PBlicense application works on your host!

If you have tested PBlicense with the trial license and decided to buy a license you have to get a valid license file to unlock the software. Please first make a system footprint with the help of the footprint generator. The following steps will explain this process:

15.1 Generate and send the Footprint

Please click on the link "**PBlicense - Footprint Generator**" on the PBlicense Main Menu:



The **"Footprint Generator"** window will be displayed. Please insert the necessary information (your username, organization and e-mail address) into the form fields like on the image below:

The screenshot shows a web browser window titled "PBlicense - Footprint Generator 1.6". The address bar shows "http://localhost:8800/pblicense/r". The page content includes the title "PBlicense - Footprint Generator 1.6", copyright information "Copyright © 2011 by PB-Soft - www.pb-soft.com", and available languages "en | ge". There are two main sections: "Product Information" and "Registration Information".

| Product Information | |
|---------------------|--|
| Product name: | PBlicense |
| Product version: | 1.6 |
| Identification: | 1 |
| Company name: | PB-Soft |
| Company website: | www.pb-soft.com |
| Configuration file: | product_1.php |

| Registration Information | |
|--------------------------|--|
| Username: | <input type="text" value="Peter Example"/> |
| Organization name: | <input type="text" value="Example Inc."/> |
| Email address: | <input type="text" value="peter@example.com"/> |

At the bottom, there are two buttons: "Reset" and "Create Footprint".

Attention: Please be sure that the username and organization is correct and check twice that your e-mail address is valid so that we can send you a license file!

Then press the Button **"Create Footprint"** to continue and create the footprint code.

The generated footprint code will be displayed like on the following image below:



If you think something went wrong (maybe you misspelled the organization name) you just can go back to the input form by pressing the link "**Back to the input form ...**" and create a new footprint. You can create as much footprints as you want.

If you think your input data is correct you can send us the created footprint so that we can create a personalized license file for you.

If your webhost supports the sending of e-mails through the integrated php mail function you can send us the footprint by pressing the button "**Send now !**".

A message window will tell you if the e-mail with the footprint was sent successfully:



If your webhost does NOT support the sending of e-mails through the integrated php mail function or there was an error during the sending process you can also send us the footprint code by e-mail. Just copy the footprint code into an new e-mail and send it to the following e-mail address: **support@pb-soft.com**.

After we got your footprint code (sent from the footprint form or sent by normal e-mail) we will create and then send you your personalized license file per e-mail. If you don't get the license file please check your spam folder. Maybe the e-mail with the attached license file was categorized as spam. If you can't find the e-mail with the license file there please contact us!

15.2 Install the License File

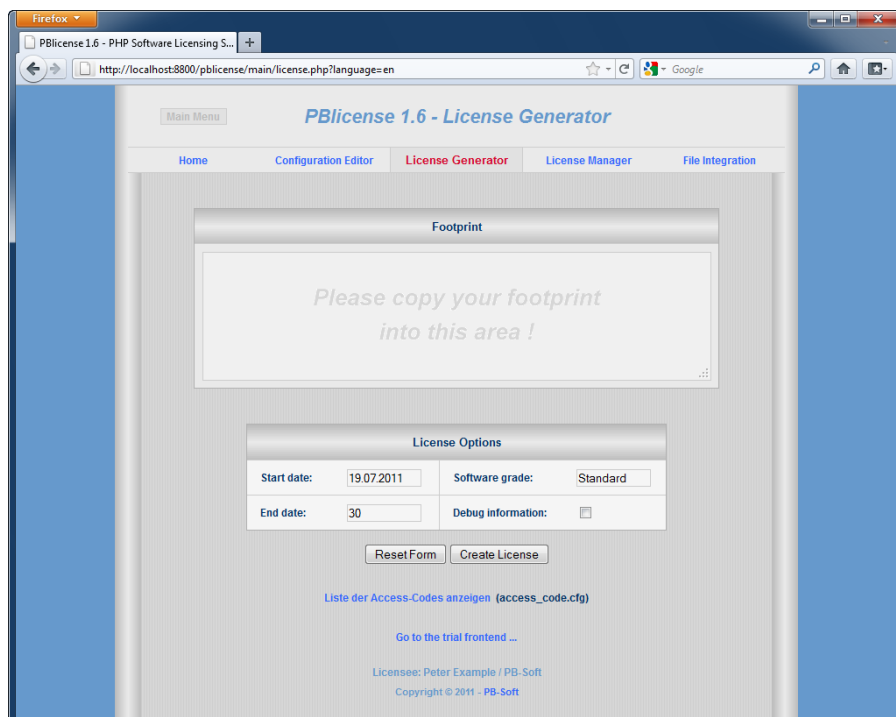
Please check on the PBlicense **"Home"** page which is the path to the license file. The following line will show you the correct path:

| | |
|--------------------------------|--|
| License logfile: | license_0711.log (2.44 KB) |
| Create a PBlicense footprint: | Footprint generator |
| Directory of the license file: | C:/PBlicense/www/pblicense/main/ |
| License file in use: | 090711005020.pbl |
| License valid from: | 09.07.2011 |
| License valid until: | 04.01.2012 |

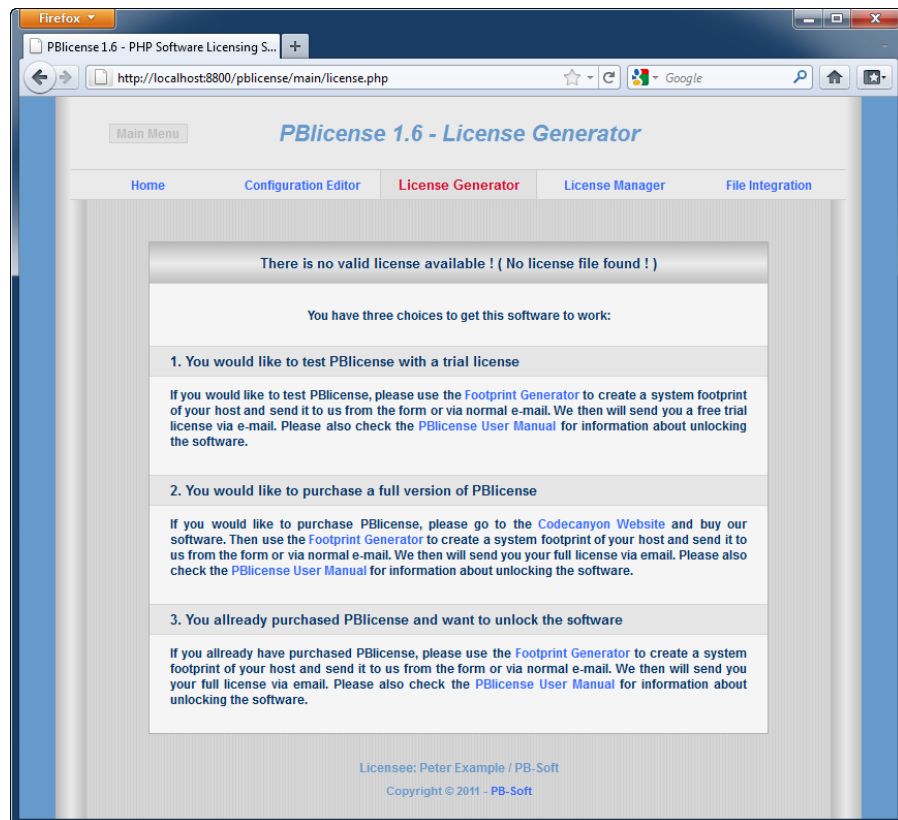
Please copy the license file to that directory and **make sure that it is the only license file in that directory**. If there is another license file, copy it to another directory or delete it.

To make the license work you also have to enter your name and organization into the PBlicense configuration file. Please check the chapter about editing the main configuration file!

To check if the registration process was successful, Please click on the link **"License Generator"** from the link panel. If the license is valid, you should see the **"License Generator"** like on the following image:



If there is a problem and therefore the license is not valid, the following screen is displayed:

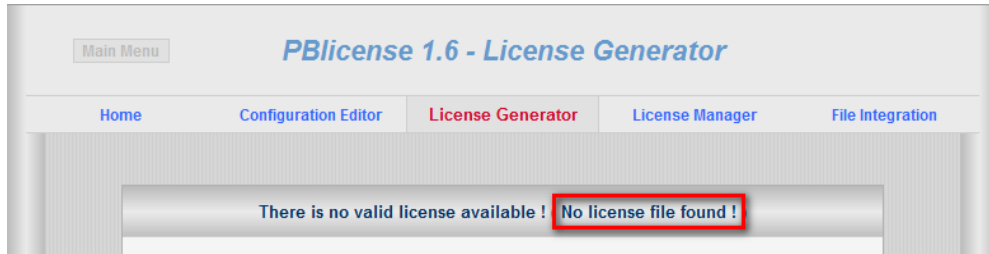


If you would like to try PBlicense, you can get a free trial license for PBlicense and test the software at least one month. You only have to create a system footprint with the **"Footprint Generator"** and send it to us. We then will create and send you a free trial license.

If you already have tested PBlicense with a trial license and it worked on your host, you can buy PBlicense at the [PB-Soft Website](#). After buying the software you also have to create a system footprint with the **"Footprint Generator"** and send it to us. We then will create and send you your personalized and unlimited license.

16 Unlock Problems

If you don't see the "**License Generator**" you probably will see the following window with an error message:



The displayed message will inform why the license verification has failed. Please check the following steps to ensure that the installation is correct:

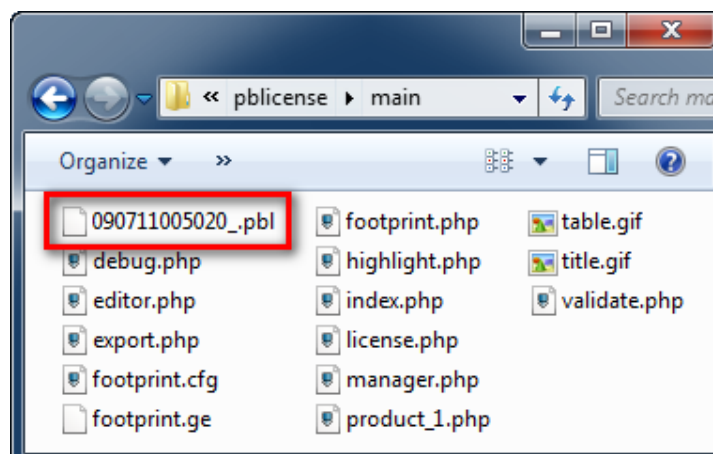
16.1 Check if there is a License File available

Check if there is a license file available in the directory which is displayed on the "**Home**" page. If there exist no license file, copy the license file to that directory and try again.

| | |
|--------------------------------|----------------------------------|
| Directory of the license file: | C:/PBlicense/www/pblicense/main/ |
|--------------------------------|----------------------------------|

16.2 Check the Number of Licenses

Check if there is only one license file available and that the file has the format **xxxxxxxxxxxx.pbl** whereby the **x**'s are numbers. As an example the license filename could be **061205180528.pbl**. If there is another license file, move it to another location or delete it.



16.3 Check the Username and Organization

Check if the username and organization on the PBlicense **"Home"** page is the same like the one specified in the license file. First look on the **"Home"** page of the PBlicense application. There you can see the licensee name and organization:

| PBlicense Information | |
|------------------------|---------------|
| Licensee name: | Peter Example |
| Licensee organization: | PB-Soft |

Then on the same page but a little bit below you can see a link to the active license file:

| | |
|--------------------------------|----------------------------------|
| Directory of the license file: | C:/PBlicense/www/pblicense/main/ |
| License file in use: | 090711005020.pbl |
| License valid from: | 09.07.2011 |
| License valid until: | 04.01.2012 |

Please click on this link and the content of the license file will be displayed:

```
// =====  
// Licensed to the following Username:  
// =====  
// Username: Peter Example  
  
// =====  
// Licensed to the following Organization:  
// =====  
// Organization: PB-Soft
```

Now check if the username and organization is the same as displayed on the **"Home"** page.

If the username and/or the organization is/are different, change the data in the configuration file!

16.4 Check the Product Name and Software Version

Check if the product name and the software version in the license file match with the software you want to run (in our case it is the PBlicense software). First look on the "**Home**" page of the PBlicense application. There you can see the software name and also the software version:

| PBlicense Information | |
|------------------------|-------------------------------|
| Licensee name: | Peter Example |
| Licensee organization: | PB-Soft |
| PBlicense version: | 1.6 - Build 54 for PHP 5.2.xx |

Then on the same page but a little bit below you can see a link to the active license file:

| | |
|--------------------------------|----------------------------------|
| Directory of the license file: | C:/PBlicense/www/pblicense/main/ |
| License file in use: | 090711005020.pbl |
| License valid from: | 09.07.2011 |
| License valid until: | 04.01.2012 |

Please click on this link and the content of the license file will be displayed:

```
// =====
// The license is for the following product:
// =====
// Productname: PBlicense

// =====
// The license is for the following product version:
// =====
// Software version: 1.xxxx
```

Now check if the product name and the software version match the data displayed on the "**Home**" page.

If the product name and/or the software version is/are different, you have to get another license file!

16.5 Check the License Start- and Expiration Date

Check if the actual license is not expired. You can see that on the "**Home**" page of the PBlicense application. There you will find the start- and end-date:

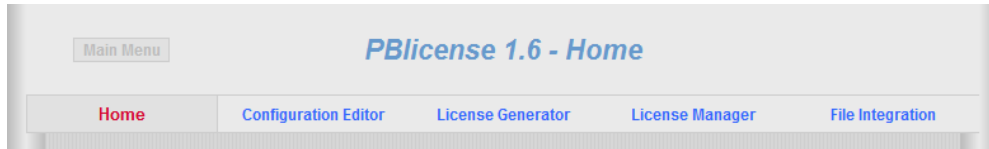
| | |
|----------------------|------------------|
| License file in use: | 090711005020.pbl |
| License valid from: | 09.07.2011 |
| License valid until: | 04.01.2012 |

If the actual date is not between the start and end-date displayed this license file will not work. The license is expired or will be valid in the future, you have to get another license file!

If you still have a problems to activate the PBlicense software, please contact us (see the support section at the end of this document). We are always glad to help you!

17 PBlicense Navigation

On the top of each window you will find the following header with different links:



Main Menu

Link to the PBlicense Main Menu.

Home

Overview with information about the licensee, current installation and with links to the logfile and to the footprint generator.

Configuration Editor

The configuration editor is used to create, edit or delete product configurations. You can use the configuration editor to create a new configuration for one of your new products, if you want to change some settings of an existing product or also if you want to delete an old configuration which you don't need anymore.

License Generator

The license generator is used to create license files. You can use it if someone requests a license file and sends you a system footprint of his installation. Then you can create a new license file and send it directly back to your customer.

License Manager

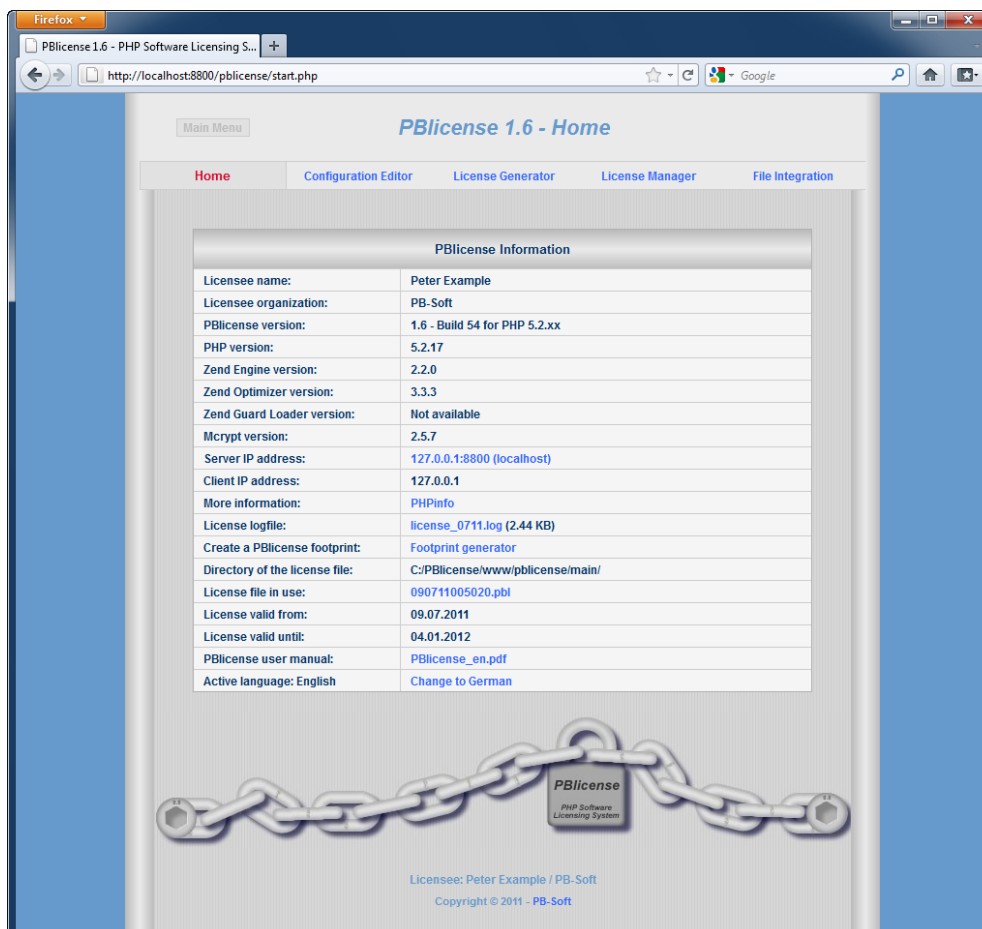
The license manager shows you an overview of all created license files. You can view or download each of the license files.

File Integration

The file integration page shows you all files which are necessary for your projects. There are project files and product files. You can download the files you need and also get the php code to integrate the PBlicense software into your application or projects.

18 PBlicense - Home

If you start the application you will see the PBlicense **"Home"**:



18.1 Information

On the **"Home"** page you can find the name of the licensee and the organization:

| | |
|------------------------|---------------|
| Licensee name: | Peter Example |
| Licensee organization: | PB-Soft |

There is also some information about the installed software and their versions (PBlicense, PHP, Zend Engine, Zend Optimizer, Zend Guard Loader and Mcrypt):

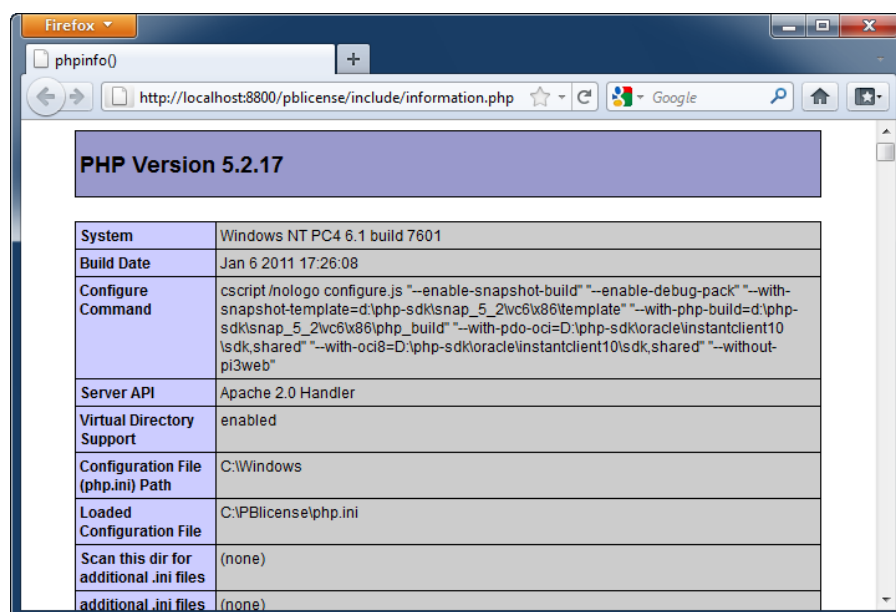
| | |
|-----------------------------------|--------------------------------------|
| PBlicense version: | 1.6 - Build 54 for PHP 5.2.xx |
| PHP version: | 5.2.17 |
| Zend Engine version: | 2.2.0 |
| Zend Optimizer version: | 3.3.3 |
| Zend Guard Loader version: | Not available |
| Mcrypt version: | 2.5.7 |

The IP address of the host and also of the client computer are displayed:

| | |
|---------------------------|-----------------------------------|
| Server IP address: | 127.0.0.1:8800 (localhost) |
| Client IP address: | 127.0.0.1 |

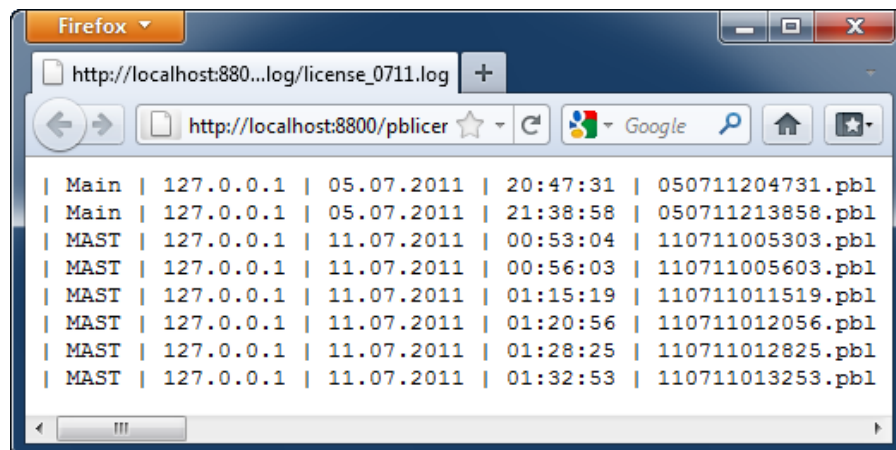
There is a link to the `phpinfo()` script which shows information about the actual host:

| | |
|--------------------------|--------------------------------|
| More information: | PHPinfo |
|--------------------------|--------------------------------|



There is a link to the license logfile to display the history of license creation:

| | |
|------------------|--|
| License logfile: | license_0711.log (2.44 KB) |
|------------------|--|



There is also some information about the actual license and a link to the "**Footprint Generator**":

| | |
|--------------------------------|-------------------------------------|
| Create a PBlicense footprint: | Footprint generator |
| Directory of the license file: | C:/PBlicense/www/pblicense/main/ |
| License file in use: | 090711005020.pbl |
| License valid from: | 09.07.2011 |
| License valid until: | 04.01.2012 |

Also a link to the PBlicense user manual is available:

| | |
|------------------------|----------------------------------|
| PBlicense user manual: | PBlicense_en.pdf |
|------------------------|----------------------------------|

The active language is displayed and with the help of a link the language can be switched between English and German:

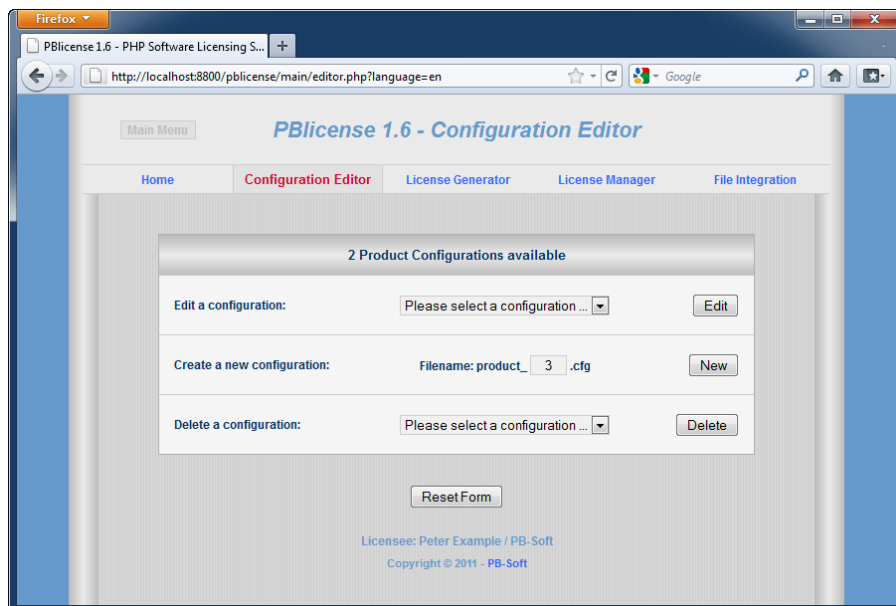
| | |
|--------------------------|----------------------------------|
| Active language: English | Change to German |
|--------------------------|----------------------------------|

19 Configuration Editor

The configuration editor is used to create, edit or delete new product configurations. If you have created a new project which you want to protect, you have to create a new configuration for that product. In the configuration you will specify the product specific details which are necessary to create the php code, license files and protect your script.

19.1 Create a new Product Configuration

To create a new product configuration please click on the link **"Configuration Editor"** on the link panel. The following window will be displayed:



There is a filename displayed for your new configuration. Normally you should use this name. To create a new configuration click on the button **"New"**:



The default product configuration will be displayed:

| Configuration details | |
|-----------------------|-------------------------------------|
| Product id: | 3 |
| Filename: | product_3.cfg |
| Product name: | Application name |
| Product version: | 1.0 |
| Script name: | index.php |
| Address range: | 3 |
| Version range: | 1 |
| Username: | <input checked="" type="checkbox"/> |
| Script path: | <input type="checkbox"/> |
| Organization: | <input checked="" type="checkbox"/> |
| Server name: | <input checked="" type="checkbox"/> |
| Product name: | <input checked="" type="checkbox"/> |
| Server address: | <input type="checkbox"/> |
| Product version: | <input checked="" type="checkbox"/> |
| Document root: | <input type="checkbox"/> |
| Script name: | <input checked="" type="checkbox"/> |
| Server environment: | <input type="checkbox"/> |

First you can enter a name for your product:

| | |
|---------------|------------|
| Product name: | Calculator |
|---------------|------------|

Then you can specify the product version:

| | |
|------------------|-----|
| Product version: | 2.0 |
|------------------|-----|

Then you can specify the name of the protected script. This is the name of the script where you will insert the generated php code which protects your whole project:

| | |
|--------------|----------|
| Script name: | calc.php |
|--------------|----------|

Then you can specify the IP address range. Here you have the following possibilities:

Range 1: The 1. number of the IP address will be checked.
Example: 243

Range 2: The 1. and 2. number of the IP address will be checked. Example: 243.125

Range 3: The 1., 2. and 3. number of the IP address will be checked. Example: 243.125.38

Range 4: All numbers of the IP address will be checked.
Example: 243.125.38.15

If your application runs on a server cluster the IP address will maybe change a lot and you can specify just a part of the IP address to be sure that your application will run without any problems.



A screenshot of a software interface showing a label 'Address range:' in blue text. To its right is a text input field containing the number '2'. The number '2' is enclosed in a red rectangular box, indicating it is the selected or active value.

Then you can specify the product version range. This will define how many decimals after the coma will be checked. Here are some examples:

Example 1:

If you specify 0, your customer can upgrade from version 1.0 up to version 1.9999999. Only if the number 1 changes the license will not be valid anymore.

Example 2:

If you specify 1, your customer can upgrade from version 1.0 up to version 1.099999. But 1.1 will not work anymore.

Example 3:

If you specify 2, your customer can upgrade from version 1.0 up to version 1.009999. But 1.01 will not work anymore.



A screenshot of a software interface showing a label 'Version range:' in blue text. To its right is a text input field containing the number '0'. The number '0' is enclosed in a red rectangular box, indicating it is the selected or active value.

Then you can specify which options are used to protect your project:

| | | | |
|------------------|-------------------------------------|---------------------|--------------------------|
| Username: | <input checked="" type="checkbox"/> | Script path: | <input type="checkbox"/> |
| Organization: | <input checked="" type="checkbox"/> | Server name: | <input type="checkbox"/> |
| Product name: | <input checked="" type="checkbox"/> | Server address: | <input type="checkbox"/> |
| Product version: | <input checked="" type="checkbox"/> | Document root: | <input type="checkbox"/> |
| Script name: | <input checked="" type="checkbox"/> | Server environment: | <input type="checkbox"/> |

If you select "**Username**" then the username will be checked.

If you select "**Organization**" then the organization will be checked.

If you select "**Product name**" then the product name will be checked. With that option selected the customer can't use the same license file for different products.

If you select "**Product version**" then the product version will be checked. With that option selected the customer can't upgrade all the time to the newest version.

If you select "**Script name**" then the script name will be checked. With that option selected the customer can't rename the script.

If you select "**Script path**" then the script path will be checked. With that option selected the customer can't move the script to another directory.

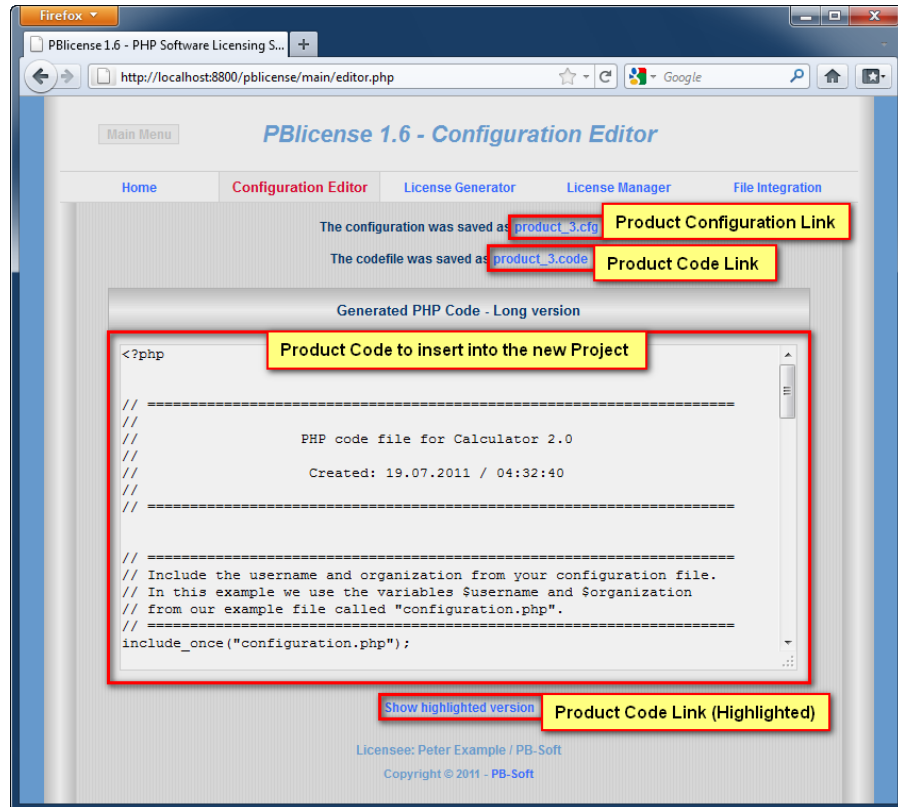
If you select "**Server name**" then the server name will be checked. With that option selected the customer can't move the script to another server if the server name changes.

If you select "**Server address**" then the server address (IP address) will be checked. With that option selected the customer can't move the script to another server if the server IP address changes.

If you select "**Document root**" then the server document root directory will be checked. With that option selected the customer can't move the script to another document root.

If you select "**Server environment**" then the server environment (Windows, Linux, FreeBSD...) will be checked. With that option selected the customer can't move the script from a Linux server to a Windows server (as an example...).

If you have specified all the parameters you can press the button **"Save configuration"** to save the configuration and show the generated php code:



The first link shows the configuration for the actual product:

The configuration was saved as [product_3.cfg](#)

The product configuration is necessary to create a footprint with the footprint generator. This configuration indicates what data the footprint generator has to collect and include in the footprint code. This file should be encoded before it is distributed with your application.

An example of a product configuration is shown here:

```
<?php

// =====
//
//      Product configuration file for Calculator 2.0
//
//      Created: 19.07.2011 / 06:39:03
//
// =====

// =====
// Specify the product details.
// =====
$product_name      = "Calculator";
$product_version   = "2.0";
$script_name       = "calc.php";
$product_id        = 1;
$address_range     = 2;
$version_range     = 0;

// =====
// Specify the options flags.
// =====
$option[0] = 1;
$option[1] = 1;
$option[2] = 1;
$option[3] = 1;
$option[4] = 1;
$option[5] = 0;
$option[6] = 0;
$option[7] = 0;
$option[8] = 0;
$option[9] = 0;

?>
```

The first part specifies the product details like the product name, product version, script name, product ID, address range and version range.

The second part specifies which of the options are enabled for checking a license and are necessary to generate a new license file with the **"License Generator"**.

The second link shows the php code for the actual product. This code is necessary to include the license verification into your own php script:

The codefile was saved as [product_3.code](#)

The product code can be generated in two different versions. The long version includes a lot of information about the code and indicates how to include it into your own projects. The same code is also displayed in the big edit field. An example is shown below:

```
<?php

// =====
//
//          PHP code file for Calculator 2.0
//
//          Created: 19.07.2011 / 06:39:03
//
// =====

// =====
// Include the username and organization from your configuration file.
// In this example we use the variables $username and $organization
// from our example file called "configuration.php".
// =====
include_once("configuration.php");

// =====
// This section contains variable information. In our case the username
// and organization of the client. This information changes with every
// new software user. Please be sure that the username and organization
// is not hardcoded into your source code !
// =====
$check[0] = $username;           // Username
$check[1] = $organization;       // Organization

// =====
// This section contains fixed information which is hardcoded and only
// changes when the software changes, like another software product or
// another software version. It is extremely important that this data
// is encoded because it contains the product key of your software.
// Please be sure that this information is hidden in the source code !
// =====
$check[2] = "Calculator";        // Product name
$check[3] = "2.0";              // Product version
$check[4] = 2;                  // IP address range
$check[5] = 0;                  // Version range
$check[6] = "1111100000";       // Option flags
$check[7] = "9dui48t7ezh4e7fz3gh773u478rff7"; // Product key
```

This code continues on the next page ...

```
// =====
// Specify the md5 hash of the validation engine script "validate.php".
// The script will check if the md5 hash of the validation engine match
// the hash specified in this section. The software will not run if the
// md5 hash does not match ! Please hardcode this md5 hash !
// =====
$md5_hash = "cbc11318f741416a56b53d2e75c6e1e4"; // MD5 hash

// =====
// Here the license will be checked. First the md5 hash is compared to
// the specified one and then the validation engine is included. After
// that, the status of the license is set to 0 (not valid) just to be
// sure that we begin with the software disabled. Then the function
// "license_check()" will check the license file and then decide if the
// license is valid or not. If the license is valid the status will be
// set to 1 (valid) and the software is ready to run.
// =====
if (md5_file("validate.php") == $md5_hash)
{
    include_once("validate.php");
    $data['status'] = 0;
    $data = license_check($check);
}

// =====
// Here you can test if the license status is set to 1 (valid) and then
// run your software. To avoid manipulations the script which contains
// the license data and check has to be encoded and therefore protected
// from changes ! You can use this license check in various scripts for
// the same software product.
// =====
if ($data['status'] == 1)
{
    // Your PHP code ...
}

?>
```

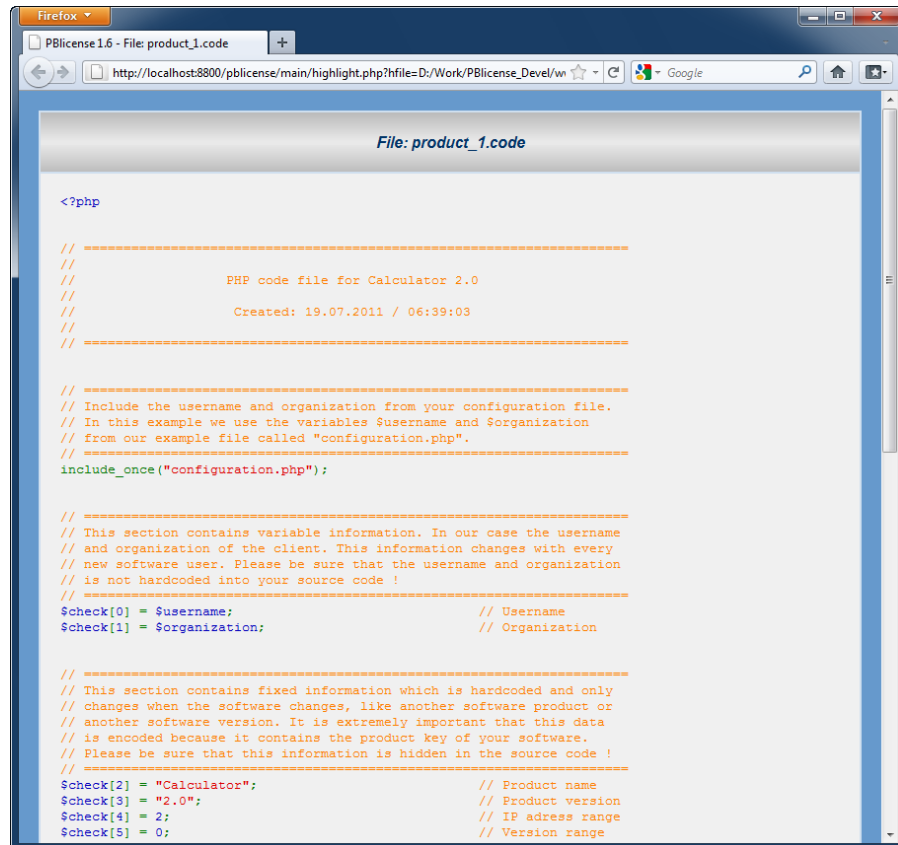
The short version includes no information and contains only the absolute minimum of code. An example is shown below:

```
<?php
include_once("configuration.php");
$check = array($username, $organization, "Calculator", "2.0", 2, 0,
"1111100000", "9dui48t7ezh4e7fz3gh773u478rff7");
if (md5_file("validate.php") == "cbc11318f741416a56b53d2e75c6e1e4") {
    include_once("validate.php");
    $data['status'] = 0;
    $data = license_check($check);
}
if ($data['status'] == 1)
{
    // Your PHP code ...
}
?>
```

The last link shows the product code in color (highlighted):

[Show highlighted version](#)

An example of the highlighted product code is shown below:



The screenshot shows a Firefox browser window with the address bar displaying `http://localhost:8800/pblicense/main/highlight.php?hfile=D:/Work/PBlicense_Devel/w`. The page title is "File: product_1.code". The main content area displays PHP code with syntax highlighting. The code includes comments and a configuration file inclusion. The product code is highlighted in orange. The code is as follows:

```
<?php

// =====
//
//          PHP code file for Calculator 2.0
//
//          Created: 19.07.2011 / 06:39:03
//
// =====

// =====
// Include the username and organization from your configuration file.
// In this example we use the variables $username and $organization
// from our example file called "configuration.php".
// =====
include_once("configuration.php");

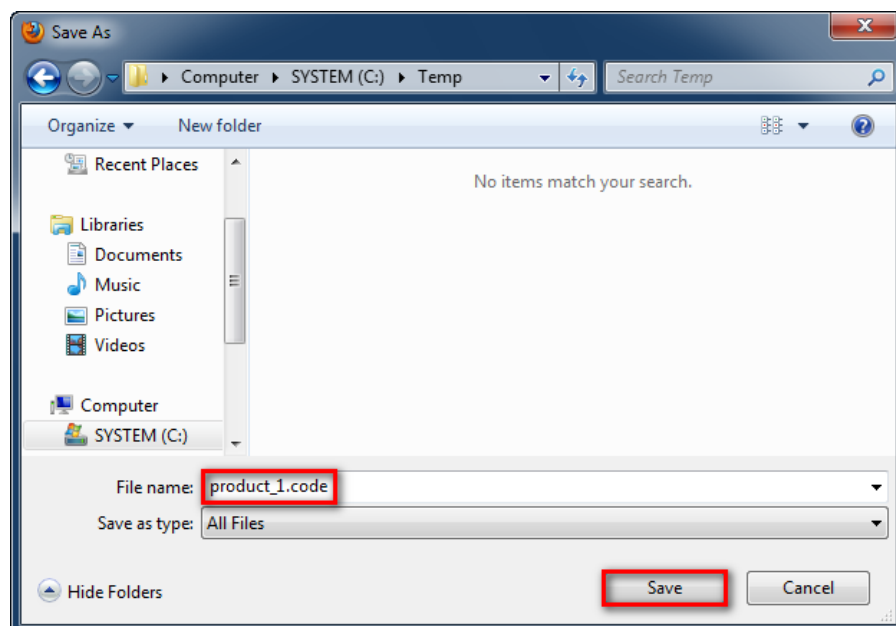
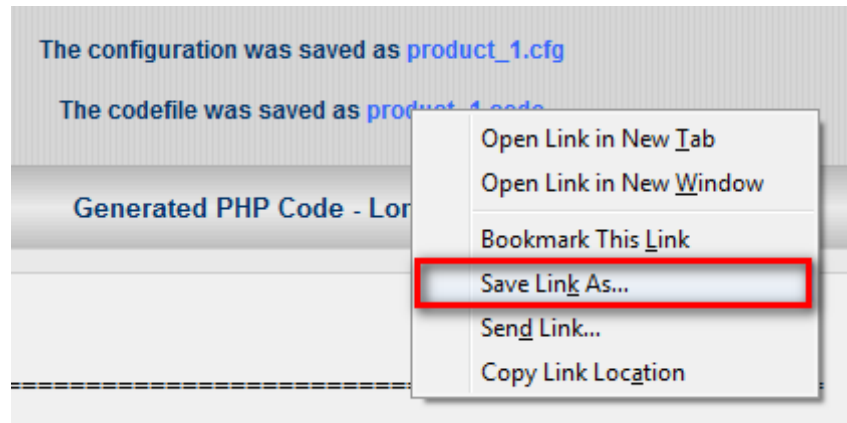
// =====
// This section contains variable information. In our case the username
// and organization of the client. This information changes with every
// new software user. Please be sure that the username and organization
// is not hardcoded into your source code !
// =====
$check[0] = $username;           // Username
$check[1] = $organization;       // Organization

// =====
// This section contains fixed information which is hardcoded and only
// changes when the software changes, like another software product or
// another software version. It is extremely important that this data
// is encoded because it contains the product key of your software.
// Please be sure that this information is hidden in the source code !
// =====
$check[2] = "Calculator";        // Product name
$check[3] = "2.0";              // Product version
$check[4] = 2;                  // IP adress range
$check[5] = 0;                  // Version range
```

The big text area also contains the product code which can be copied and pasted to your script.

The product configuration and also the product code will be saved and can be accessed anytime from the page **"File Integration"**.

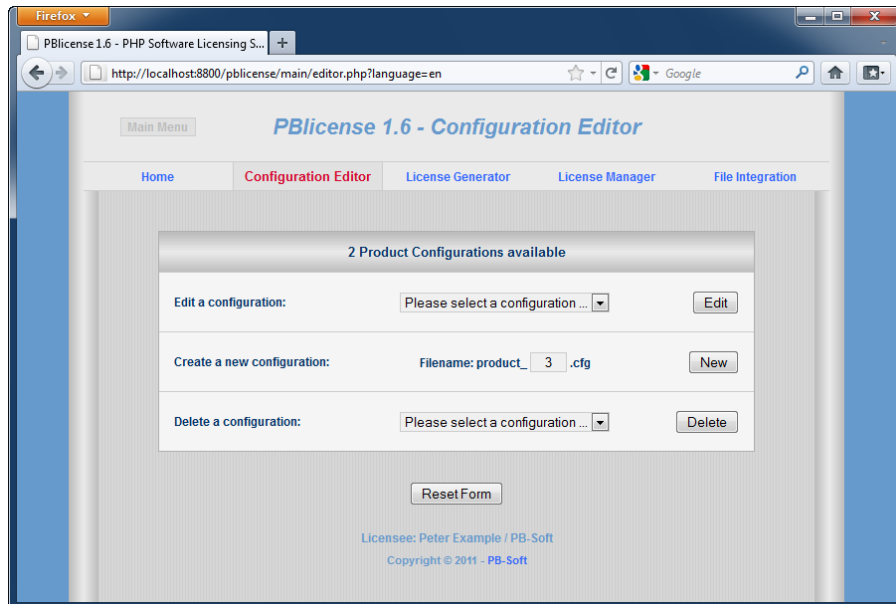
The different links can also be used to download the product configuration or product code as a text file. You only have to click with the right mouse button on the link and choose "Save Link As..." and save the file to a new location:



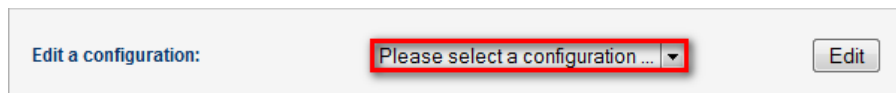
Attention: If you create a new product configuration but you have not specified a product key you will get a warning! Then you have to create a new product key like described in the installation section of this manual and try again.

19.2 Edit a Product Configuration

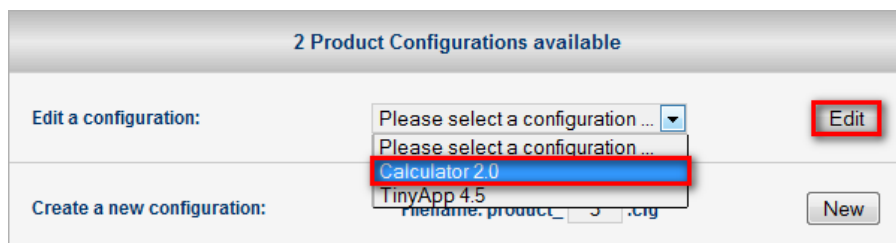
To edit an existing product configuration please click on the link **"Configuration Editor"** on the link panel. The following window will be displayed:



First you have to choose an existing product configuration from the existing configurations. Please select one from the drop-down menu:



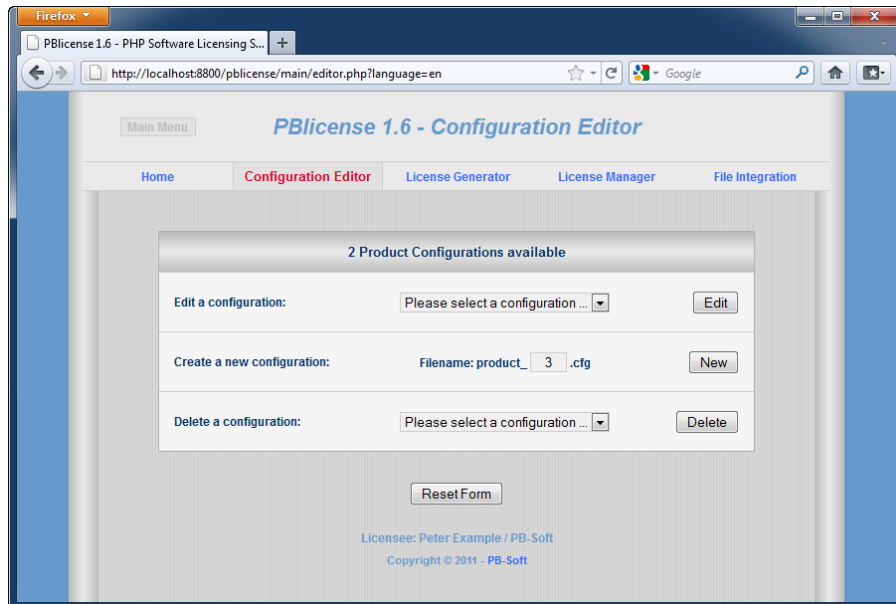
After selecting the configuration press the button **"Edit"**:



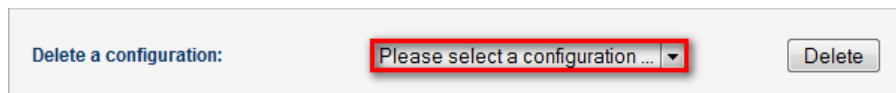
The configuration screen will be displayed and you can edit the configuration like described in the section **"Create a new Product Configuration"**.

19.3 Delete a Product Configuration

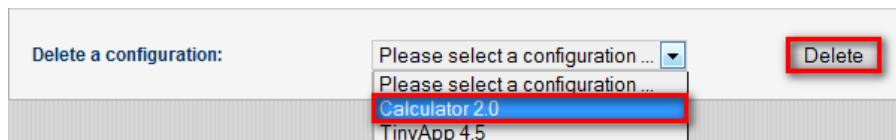
To delete an existing product configuration please click on the link **"Configuration Editor"** on the link panel. The following window will be displayed:



Now you have to choose which configuration you want to delete. Please use the drop-down menu to select an existing product configuration:



After selecting the configuration press the button **"Delete"**:



The configuration will be deleted...

20 License Generator

The license generator is very easy to use and you can create all the licenses for your products in a very efficient and fast way. To create a new license file please click on the link "**License Generator**" on the link panel. The following window will be displayed:

The screenshot shows a web browser window titled "PBlicense 1.6 - License Generator". The address bar shows the URL "http://localhost:8800/pblicense/main/license.php?language=en". The page has a navigation bar with links: Home, Configuration Editor, License Generator (highlighted), License Manager, and File Integration. Below the navigation bar is a "Footprint" section with a large text input area containing the text "Please copy your footprint into this area !". Below this is a "License Options" section with a table of input fields:

| License Options | |
|--------------------|--------------------------|
| Start date: | 19.07.2011 |
| Software grade: | Standard |
| End date: | 30 |
| Debug information: | <input type="checkbox"/> |

Below the table are two buttons: "Reset Form" and "Create License". At the bottom of the page, there is a link "Liste der Access-Codes anzeigen (access_code.cfg)", a link "Go to the trial frontend ...", and footer text: "Licensee: Peter Example / PB-Soft" and "Copyright © 2011 - PB-Soft".

The footprint screen is divided into two areas:

The first area is a text input area for the footprint generated by the "**Footprint Generator**". You only have to paste a valid footprint from the clipboard into this text area.

The second area is an input section to specify the different license options like the start-date, end date and software grade. Further you can select if you want to see debug information about the license creating process.

20.1 Create a license file

To create a new license file you only need to copy a valid footprint into the input field like on the following picture:



Then you can specify some license options like on the following image:

| License Options | |
|--------------------|--------------------------|
| Start date: | 19.07.2011 |
| Software grade: | Standard |
| End date: | 30 |
| Debug information: | <input type="checkbox"/> |

Start-Date

As the first option you can specify the license start-date. You have to use the following format:

DD.MM.YYYY

| | |
|-------------|------------|
| Start date: | 19.07.2011 |
|-------------|------------|

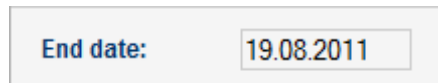
The actual day is selected so if you want the license to be valid from today you don't have to change anything. If you want to change it, be sure to specify a date in the future.

As an example: you could create a license which is only valid during the Christmas days from December 24th until December 26th. Just enter 24.12.2011 as the start-date and 26.12.2011 as the end-date. This license then would be valid for 3 days.

End-Date

As second option you have to specify the license duration or end-date. You can use the following format:

DD.MM.YYYY (end-date)



End date:

or

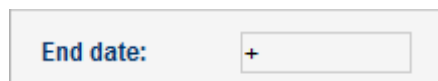
DD (license duration in days)



End date:

If you use the first format the license will be valid until this date. If you use the second format the license will be valid for the number of days you enter. If today is January 6th and you enter 11 then the license will be valid until January 17th.

If you enter a + character the license duration will be unlimited!



End date:

Software Grade

As the third option you can specify the software grade. With that parameter you can specify different editions of the same software product. Here is an example:

With the Software grade **Standard** the user can add a maximum of 20 rooms for his hotel in your software "Hotel Manager".

With the software grade **Deluxe** the user can add a maximum of 100 rooms for his hotel in your software "Hotel Manager" and has the possibility to make online reservations.

You can specify your own names and you can later check the actual software grade from your application.

| | |
|-----------------|---------------------------------------|
| Software grade: | <input type="text" value="Standard"/> |
|-----------------|---------------------------------------|

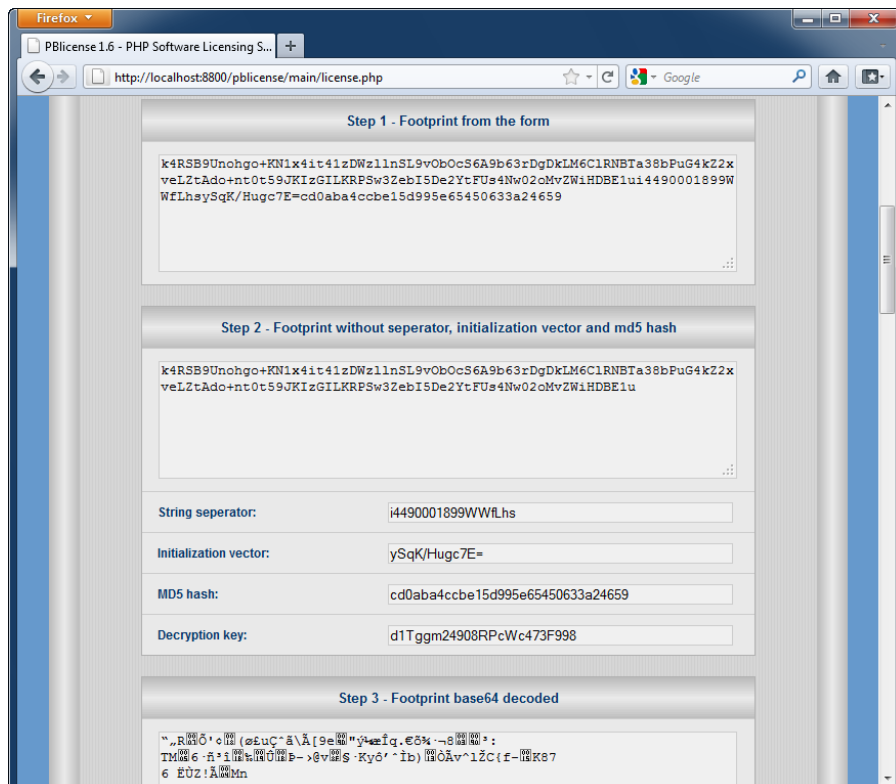
| | |
|-----------------|-------------------------------------|
| Software grade: | <input type="text" value="Deluxe"/> |
|-----------------|-------------------------------------|

Debug Information

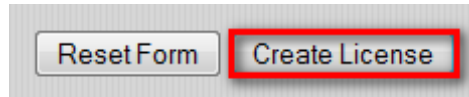
As the fourth and last option you can select the checkbox to see debug information. Normally that is not necessary and you can leave the checkbox unchecked (default):

| | |
|--------------------|--------------------------|
| Debug information: | <input type="checkbox"/> |
|--------------------|--------------------------|

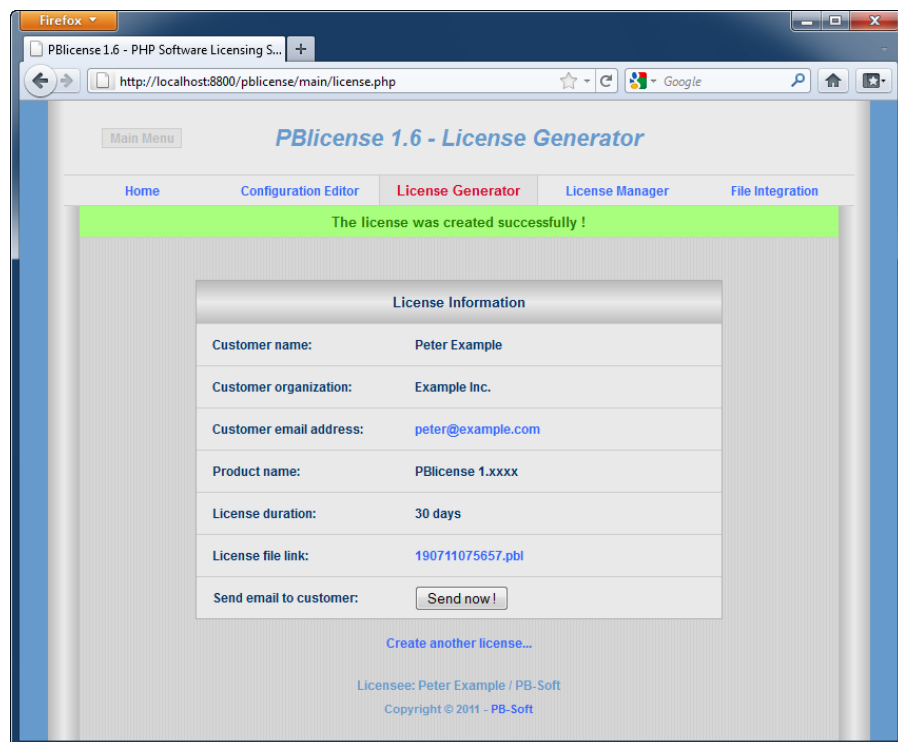
If you enable the "**Debug Information**" checkbox you will get a lot of debug information when creating the license file:



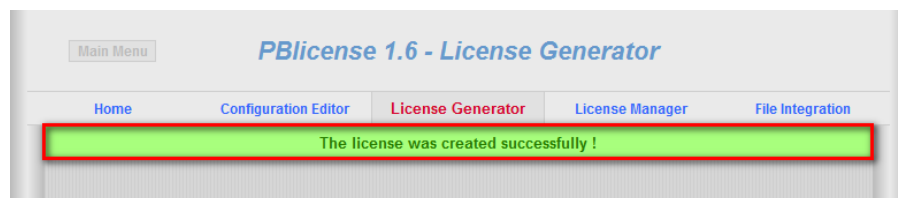
To create the license file you just have to press the button "Create License":



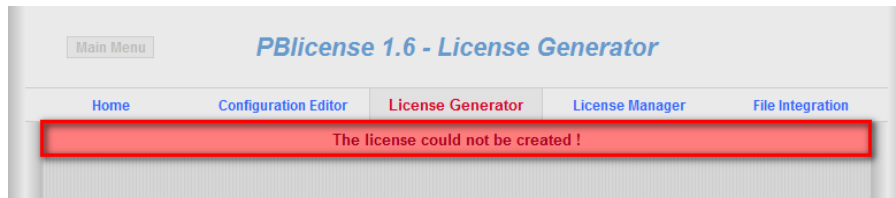
The license will be created and you will see the following screen:



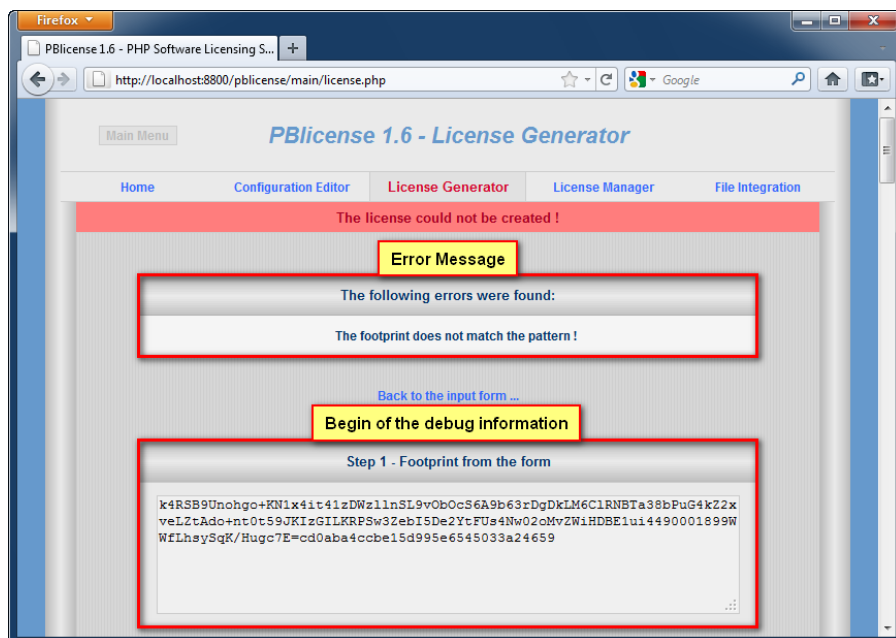
If you see the green banner the license was created successfully:



If there was an error while creating the license you will see a red banner:



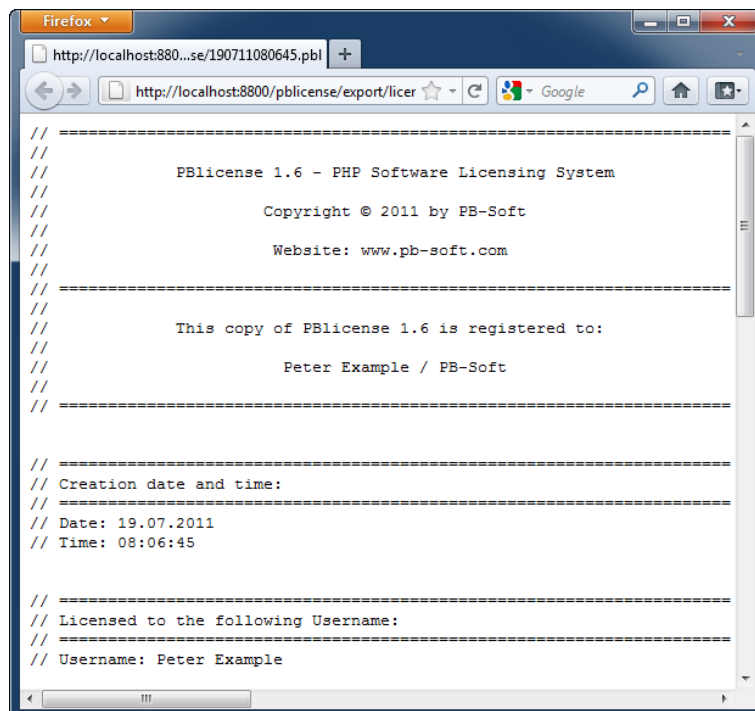
In case of an error additional information will be displayed like an error message and a lot of debug information (configurable):



If everything worked fine you can see the most important client and software data. All the data was sent through the footprint so you don't have to enter absolutely nothing!

| License Information | |
|-------------------------|--|
| Customer name: | Peter Example |
| Customer organization: | Example Inc. |
| Customer email address: | peter@example.com |
| Product name: | PBlicense 1.xxxx |
| License duration: | 30 days |
| License file link: | 190711080645.pbl |
| Send email to customer: | <input type="button" value="Send now !"/> |

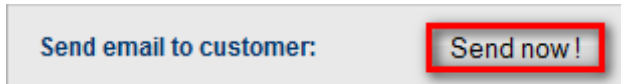
If you want you can check the license file by clicking on the link. The license file which is a plain text file with an encrypted license key will be displayed in a new browser tab or window:



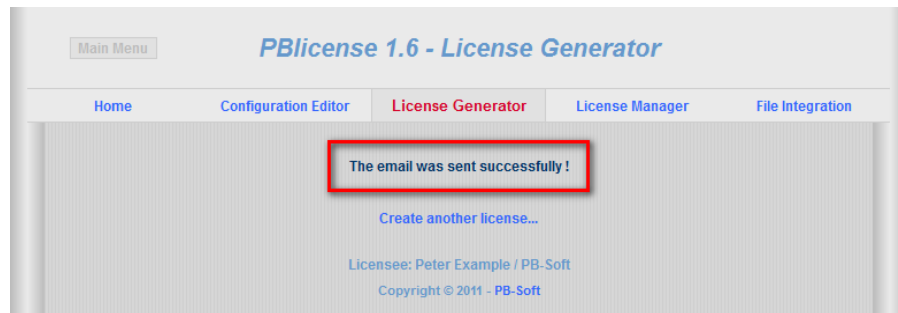
```
// =====  
//  
//          PBlicense 1.6 - PHP Software Licensing System  
//  
//          Copyright © 2011 by PB-Soft  
//  
//          Website: www.pb-soft.com  
//  
// =====  
//  
//          This copy of PBlicense 1.6 is registered to:  
//  
//          Peter Example / PB-Soft  
//  
// =====  
//  
// =====  
// Creation date and time:  
// =====  
// Date: 19.07.2011  
// Time: 08:06:45  
//  
// =====  
// Licensed to the following Username:  
// =====  
// Username: Peter Example  
// =====
```

20.2 Send a License File

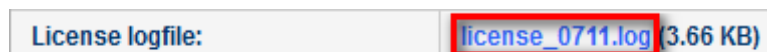
Now you can send an e-mail with the attached license file directly to your customer with just one mouse click! Please press the button "**Send now !**" to send the license file.



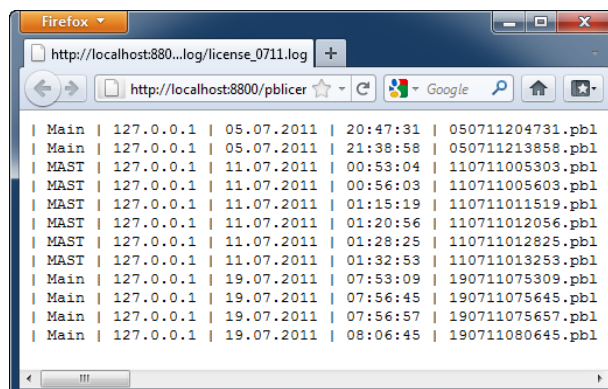
The e-mail will be sent without the need of specifying the e-mail address of the customer. You will be informed if the e-mail could be sent successfully:



The license creation is also logged to the license logfile. To view the logfile please click on the link "**Home**" on the link panel. There you will find the link to the license logfile:

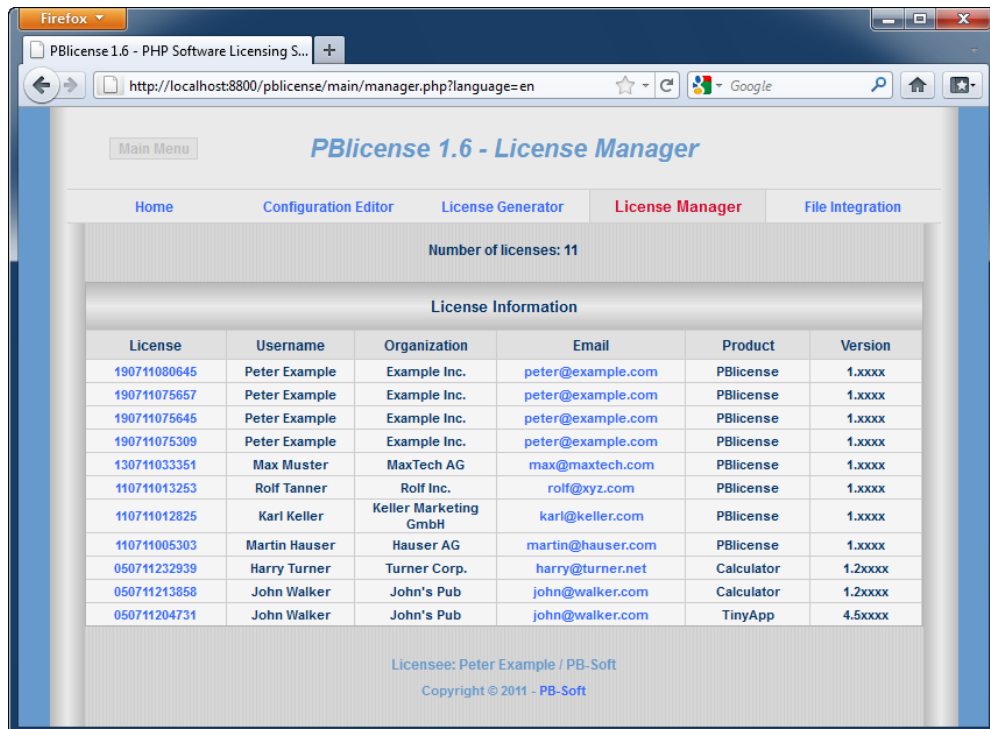


To view the logfile please click on the link and the logfile will be displayed in a new browser tab or window:



21 License Manager

The license manager shows all created licenses and the most important client data. To view information about the existing license files please click on the link "**License Manager**" on the link panel. The following window will be displayed:



21.1 License information

The license information for each license will be showed on one line. The following is an example (divided into two lines because of the limited space):

| License | Username | Organization |
|--------------|---------------|--------------|
| 190711080645 | Peter Example | Example Inc. |

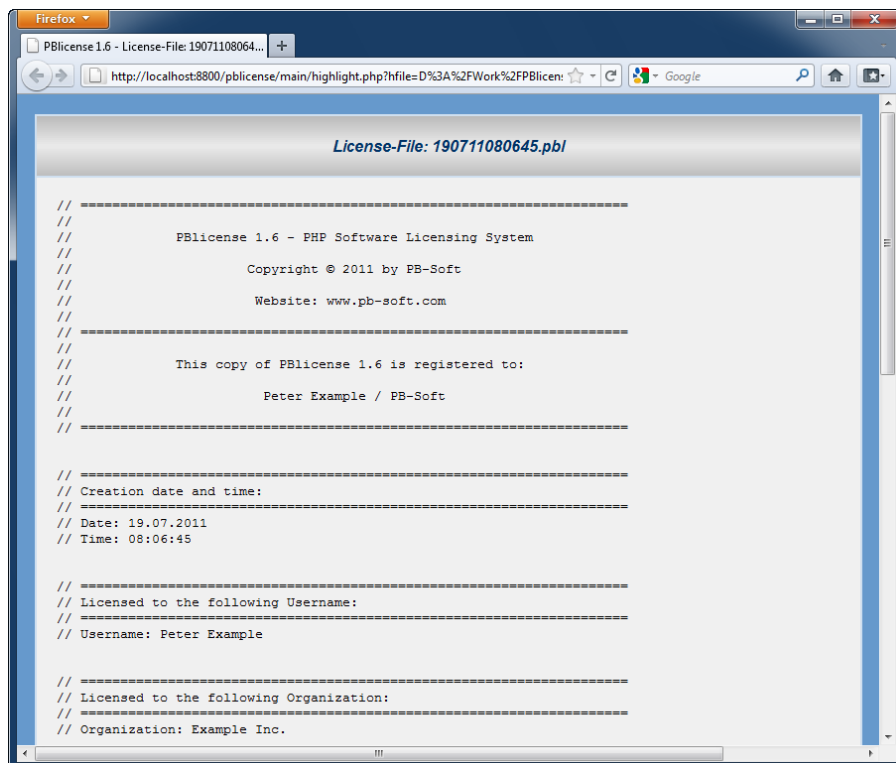
| Email | Product | Version |
|-------------------|-----------|---------|
| peter@example.com | PBlicense | 1.xxxx |

21.2 View a License File

If you want to see an existing license file you just have to click with the mouse on the link with the name of the license file:

| License Information | | | | | |
|------------------------------|---------------|--------------|--|-----------|---------|
| License | Username | Organization | Email | Product | Version |
| 190711080645 | Peter Example | Example Inc. | peter@example.com | PBlicense | 1.xxxx |
| 190711075657 | Peter Example | Example Inc. | peter@example.com | PBlicense | 1.xxxx |

The license file then will be opened in a new browser tab or window:



There are also e-mail links which open your default e-mail application and insert the customers e-mail address into the recipients field.

| License Information | | | | | |
|------------------------------|---------------|--------------|--|-----------|---------|
| License | Username | Organization | Email | Product | Version |
| 190711080645 | Peter Example | Example Inc. | peter@example.com | PBlicense | 1.xxxx |
| 190711075657 | Peter Example | Example Inc. | peter@example.com | PBlicense | 1.xxxx |

22 File Integration

To integrate the necessary files into your project please click on the link **"File Integration"** on the link panel. The following window will be displayed:

PBlicense 1.6 - File Integration

Home Configuration Editor License Generator License Manager **File Integration**

| PBlicense Project Files | | |
|--------------------------------|------------------------------------|----------|
| File Description | Filename | Size |
| Footprint main application | DL footprint.zip | 15.01 KB |
| Footprint configuration file | DL footprint.cfg | 1.86 KB |
| Footprint css file | DL footprint.css | 10.92 KB |
| German footprint language file | DL footprint.ge | 2.70 KB |
| Footprint title graphic | DL title.gif | 0.27 KB |
| Footprint table graphic | DL table.gif | 0.16 KB |
| PBlicense validation engine | DL validate.zip | 7.17 KB |

| Validation Engine MD5 Hashes | | |
|------------------------------|--|----------------------------------|
| Type | Path / Filename | MD5 Hash |
| Configuration | Specified in: pblicense.cfg | cbc11318f741416a56b53d2e75c6e1e4 |
| Export | pblicense/export/validate/validate.php | cbc11318f741416a56b53d2e75c6e1e4 |
| Internal | pblicense/main/validate.php | cbc11318f741416a56b53d2e75c6e1e4 |

All the MD5 Hashes are correct.

| PBlicense Product Files | | | | |
|-------------------------|------------|---------|------------------------------------|-------------------------------------|
| No. | Name | Version | Configuration | PHP-Code |
| 1 | Calculator | 2.0 | DL product_1.php | DL product_1.code |
| 2 | TinyApp | 4.5 | DL | DL product_2.code |

Licensee: Peter Example / PB-Soft
Copyright © 2011 - PB-Soft

The **"File Integration"** page is divided into three areas. The first area displays the project specific files. Those files are needed for all the projects and all the products. This files include the **"Footprint Generator"** which is used with all products to generate a system footprint and the **"Validation Engine"** which is also used by all products to validate an existing license file.

22.1 Project Files

The project files are listed in a table like the one in on the image below:

| PBlicense Project Files | | | |
|--------------------------------|--------------------|-------------------------------|----------|
| File Description | Download links | 'Normal' links | Size |
| Footprint main application | DL | footprint.zip | 15.01 KB |
| Footprint configuration file | DL | footprint.cfg | 1.86 KB |
| Footprint css file | DL | footprint.css | 10.92 KB |
| German footprint language file | DL | footprint.ge | 2.70 KB |
| Footprint title graphic | DL | title.gif | 0.27 KB |
| Footprint table graphic | DL | table.gif | 0.16 KB |
| PBlicense validation engine | DL | validate.zip | 7.17 KB |

Normally these files are exactly the same for all of your protected applications. A click on one of the download links on the left side will download the specified file even if it is a text file which normally would be displayed in the browser. A click on one of the normal links will show configuration files (text), CSS files (text) and images in the browser but will download zip files.

Here is a small description for each of the project files and the reason why you need or don't need them for your project:

footprint.zip (contains the file footprint.php)

This is the footprint main application and absolutely necessary. You have to unzip the file before you use it. It is compressed so that you can download and send it by e-mail. This file is located in the directory "**pblicense/export/footprint**".

footprint.cfg

This is the footprint configuration file and is absolutely necessary and is located in the directory "**pblicense/export/footprint**". You can open it with a text editor and customize your company data:

```
// =====
// Specify the company data.
// =====
$company_name      = "PB-Soft";
$company_website   = "www.pb-soft.com";
$company_reg_link  = "www.pb-soft.com";
$company_reg_email = "info@pb-soft.com";
```

The company information is the most important data you have to customize!

Attention: Please check that your company data, especially the e-mail address, is correct!

If you want you can also change the default language, the screen size and the test patterns for the user input verification. Normally these parameters don't have to be changed.

footprint.css

This is an additional cascading style sheet. If you want you can modify this CSS file and change the appearance of the footprint generator. This file is not necessary to run the footprint generator. If the footprint generator does not find this file he will use his built-in CSS style but if this file is available (in the same directory like the footprint generator) it will be used instead of the built-in styles. This file is located in the directory "**pblicense/export/footprint**".

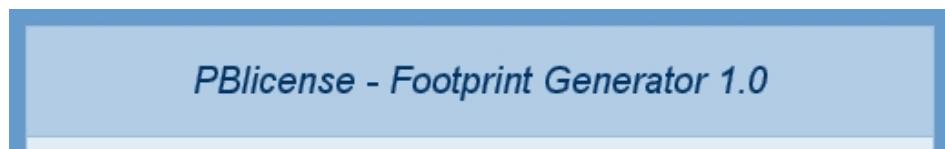
title.gif

This is an additional graphic file so that the title of the footprint generator looks nicer. You also can create your own background file for the footprint title. It just has to be a file with the following properties:

File format: **gif**
Height in pixel: **60**
Width in pixel: **1**

This file is not absolutely necessary. If the footprint generator does not find the file he will show the title without the title graphic. Here you can see the difference:

Title without the graphic file:



Title with the graphic file:



This file is located in the directory "**pblicense/export/footprint**".

table.gif

This is an additional graphic file so that the table headers of the footprint generator look better. You also can create your own background file for the table header. It just has to be a file with the following properties:

File format: **gif**
Height in pixel: **35**
Width in pixel: **1**

This file is not absolutely necessary. If the footprint generator does not find the file he will show the table headers without the table graphic. Here you can see the difference:

Table header without the graphic file:



Table header with the graphic file:



This file is located in the directory "**pblicense/export/footprint**".

footprint.ge

This is an additional language file for the German language. If you don't need the German language this file is not absolutely necessary. If the footprint generator does not find this language file he will display only the English version. If the file is present the links for the available languages will be displayed:



This file is located in the directory "**pblicense/export/footprint**".

validate.zip (contains the file validate.php)

This is the validation engine and absolutely necessary. You have to unzip the file before you use it. It is compressed so that you can download and send it by e-mail. This file is located in the directory "pblicense/export/validate".

To integrate the project files into your own project just download them to your local computer, unzip the two compressed files and copy all the files together to the same directory like your script which you want to protect. That's all!

22.2 MD5 Hashes

The second area displays the MD5 hashes of the validation engines. It is very important that this information is always correct because the application will check the MD5 hash of the validation engine before the function to check the license is included into the application. **Without the correct validation engine (correct MD5 hash) the application will never run!** The table displays the different validation engine hashes available:

| Validation Engine MD5 Hashes | | |
|---------------------------------|--|----------------------------------|
| Type | Path / Filename | MD5 Hash |
| Configuration | Specified in: pblicense.cfg | cbc11318f741416a56b53d2e75c6e1e4 |
| Export | pblicense/export/validate/validate.php | cbc11318f741416a56b53d2e75c6e1e4 |
| Internal | pblicense/main/validate.php | cbc11318f741416a56b53d2e75c6e1e4 |
| All the MD5 Hashes are correct. | | |

If the banner is green everything is ok. If the banner is red there is something wrong with the MD5 hashes, maybe the specified MD5 hash in the configuration file is wrong or a validation engine file is corrupt.

22.3 Product Files

The third area displays all the product files which are necessary to configure the product specific part. Normally these files are unique for each of your protected applications.

| PBlicense Product Files | | | | |
|-------------------------|------------|---------|------------------------------------|-------------------------------------|
| No. | Name | Version | Configuration | PHP-Code |
| 1 | Calculator | 2.0 | DL product_1.php | DL product_1.code |
| 2 | TinyApp | 4.5 | DL product_2.php | DL product_2.code |

Here is a small description for each of the files and the reason why you need them for your project:

product_x.php

This file contains all the product specific information (product x) for the footprint generator to create a product specific footprint. All the configuration settings you made with the configuration editor are saved to this file. It would be the best if you encode this file but it's not absolutely necessary.

If you do not encode this configuration file, your customer can change the settings before creating a footprint. The only thing which will happen is that his application never will work because the created footprint will be invalid - But it could be a problem if you have to support this case and you don't know that the configuration file was altered by the customer!

Please download the product file and copy the file to the same directory like your script which you want to protect.

product_x.code

This file contains the product specific php code which you have to copy into your application which you want to protect. Please see the chapter "**Code Integration**" for information about how to integrate the product code into your own project.

23 Code Integration

To integrate the necessary files into your project please click on the link **"File Integration"** on the link panel. The following window will display all the necessary files for the integration of the PBlicense software into your own project.

23.1 Display the PHP code

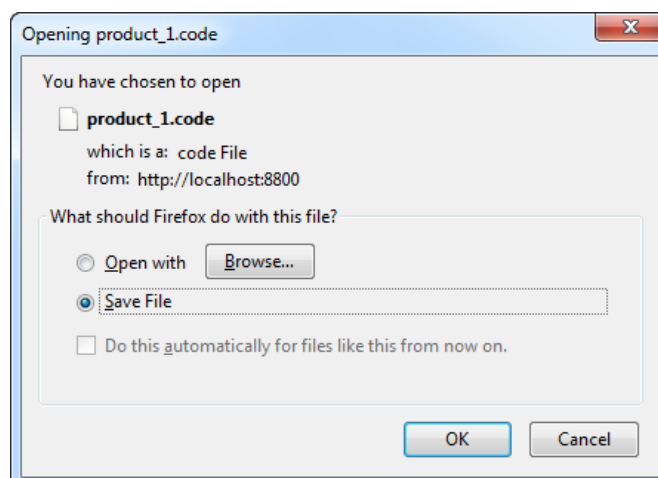
The table **"PBlicense Product Files"** list all the product codes:

| PBlicense Product Files | | | | |
|-------------------------|------------|---------|------------------------------------|-------------------------------------|
| No. | Name | Version | Configuration | PHP-Code |
| 1 | Calculator | 2.0 | DL product_1.php | DL product_1.code |
| 2 | TinyApp | 4.5 | DL product_2.php | DL product_2.code |

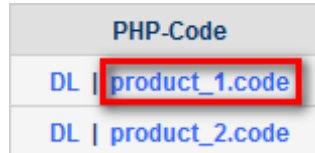
To download the product code file to your local computer please click on the download link **"DL"** on the left side:

| PHP-Code | |
|--------------------|--------------------------------|
| DL | product_1.code |
| DL | product_2.code |

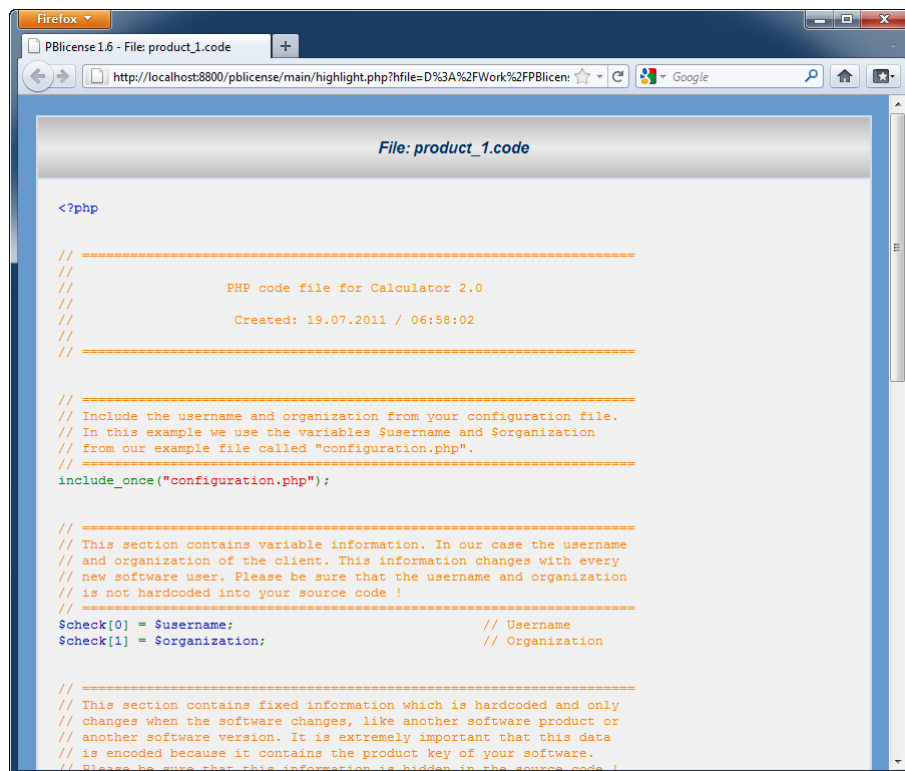
You will be asked where you want to store the file and you can choose a local folder on your computer:



To display the necessary php code for one of your products, please click on the product code link "**product_x.code**" on the right side:



The product code for the specified product will be displayed and you can copy the php code into your application:



23.2 Customize your Configuration File

You can copy the definition of the username and organization to your configuration file. Your customer later has to specify his name and organization (red part). So that part has to be in a file which is NOT encoded. This is normally the configuration file of the application.

```
// =====  
// Specify the username and organization  
// =====  
$username      = "Peter Example";  
$organization = "Example Inc.";
```

Attention: Please be sure that the configuration file which contains the username and organization specification is NOT encoded! The user later needs to edit this file and insert his name and organization!

23.3 Customize your Application File

Next we will explain the created php code which you can use in your own script (without the blue line numbers!):

```
1 <?php  
2 include_once("configuration.php");  
3 $check[0] = $username;  
4 $check[1] = $organization;  
5 $check[2] = "Calculator";  
6 $check[3] = "2.0";  
7 $check[4] = 2;  
8 $check[5] = 0;  
9 $check[6] = "1111100000";  
10 $check[7] = "9dui48t7ezh4e7fz3gh773u478rff7";  
11 $md5_hash = "cbc11318f741416a56b53d2e75c6e1e4";  
12 if (md5_file("validate.php") == $md5_hash)  
13 {  
14     include_once("validate.php");  
15     $data['status'] = 0;  
16     $data = license_check($check);  
17 }  
18 if ($data['status'] == 1)  
19 {  
20     // Your PHP code ...  
21 }  
22 ?>
```

Code line 1

Begin of the PHP script.

Code line 2

The configuration file "**configuration.php**" of your application is included into the protected script. Inside the configuration file the username and organization of the customer should be specified (The customer can later edit the file and insert his name and organization).

Code line 3

The name of the user which was obtained from the configuration file is added to the array "**\$check**" on position 0.

Code line 4

The name of the organization which was obtained from the configuration file is added to the array "**\$check**" on position 1.

Code line 5

The name of the application which is hardcoded is added to the array "**\$check**" on position 2. If the application name option was selected the validation engine will check this name against the name specified in the encrypted license string.

Code line 6

The application version which is hardcoded is added to the array "**\$check**" on position 3. If the application version option was selected the validation engine will check this version against the version specified in the encrypted license string.

Code line 7

The IP address range which is hardcoded is added to the array "**\$check**" on position 4. If the server address option was selected the validation engine will check the server IP address with this range against the IP address specified in the encrypted license string.

Code line 8

The version range which is hardcoded is added to the array "**\$check**" on position 5. If the application version option was selected the validation engine will check the application version with this range against the version specified in the encrypted license string.

Code line 9

The option flags which are hardcoded are added to the array "**\$check**" on position 6. Specifies which configuration options will be checked by the validation engine. 1 means enabled and 0 means disabled.

Code line 10

The product key which is hardcoded is added to the array "**\$check**" on position 6. The product key is used as the encryption key for the license file and always has to be encoded!

Code line 11

The MD5 hash which is hardcoded is stored into the variable "**\$md5_hash**". Before the script checks the license file it checks if the validation engine was not modified and the MD5 hash is correct. If the validation engine hash does not match, the application will not run.

Code line 12

Check if the MD5 hash of the validation engine "**validate.php**" match the MD5 hash stored in the variable **\$md5_hash**.

Code line 13

Begin of the code block which is executed if the MD5 hashes match.

Code line 14

Include the validation engine "**validate.php**" into the application.

Code line 15

Set the license status to zero. For security reasons the license status is set to NOT VALID before the license will be validated.

Code line 16

Call the validate function to check the license file and store the result into the array "**\$data**".

Code line 17

End of the code block which is executed if the MD5 hashes match.

Code line 18

Check if the license status is valid.

Code line 19

Begin of the code block which is executed if the license status is valid.

Code line 20

Execute the code of your PHP application.

Code line 21

End of the code block which is executed if the license status is valid.

Code line 22

End of the PHP script.

Attention: Be sure that your php application which contains this or a similar code is ALWAYS ENCODED!

23.4 License Information Array

The validation engine always returns an array which contains the following license information which can be used in every script:

\$data['software_grade']

Software grade which was specified before the license file was created, like **Standard**.

\$data['start_date']

Contains the start-date which was specified before the license file was created, like **20.11.2005**.

\$data['end_date']

Contains the end-date which was specified before the license file was created, like **20.12.2005**.

\$data['creation_date']

Contains the creation date of the license file, like **25.10.2005**.

\$data['duration']

Contains the license duration in days, like **30**.

\$data['status']

Contains the license status: **0** = license invalid, **1** = license valid.

\$data['message']

Contains a message about the validation result, like **License is not valid!**

\$data['filename']

Contains the filename of the license file, like **301105193352.pbl**.

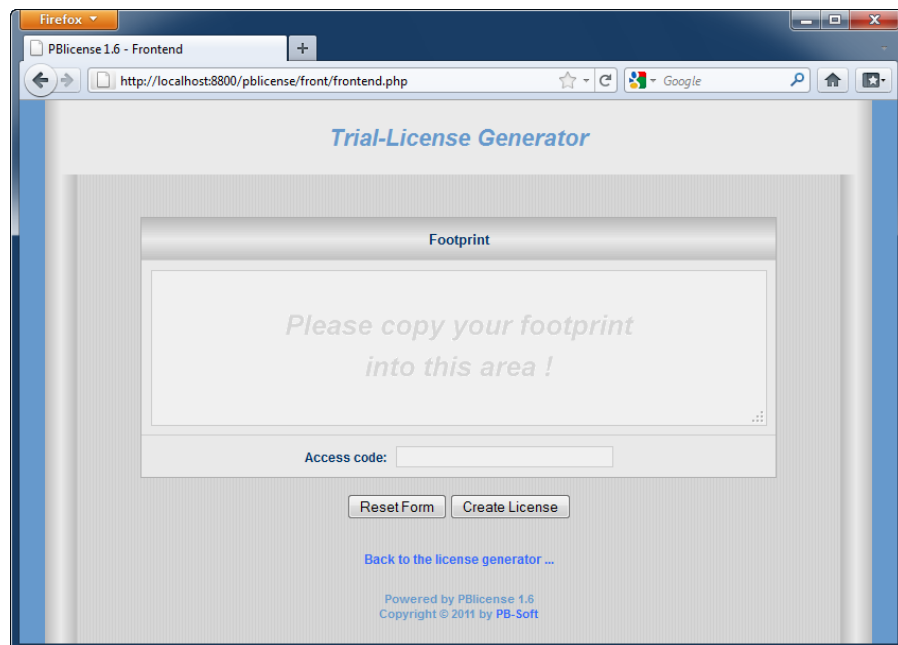
After checking the license file you can use these array values in your script but check first if the value is set. Example: If the license file could not be read there is no start- or end-date available but the status or the message is available!

The most important array value is **\$data['status']**, because it depends on the status if your script will run (license valid) or stop (license not valid).

24 Tools

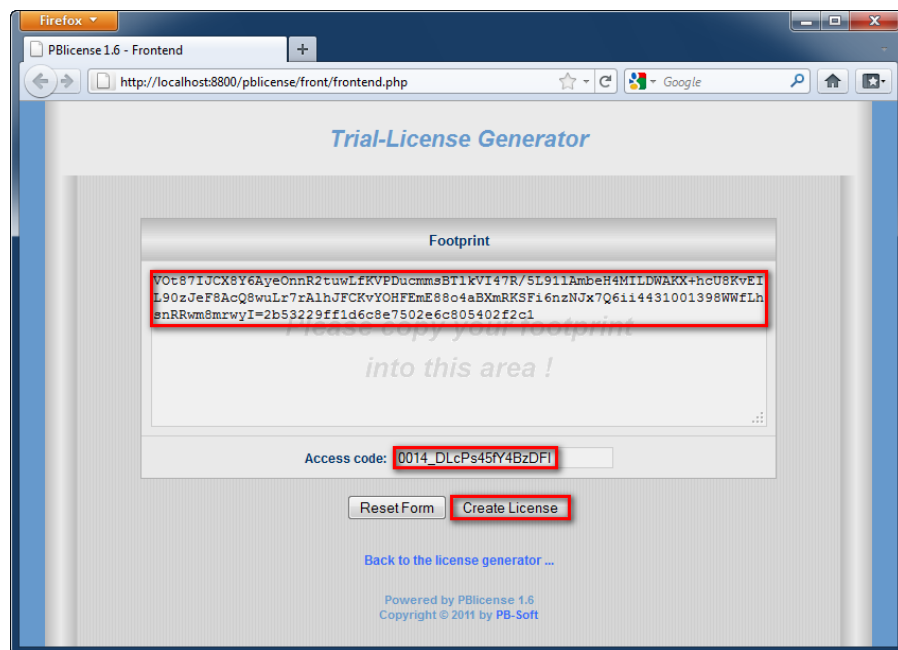
24.1 PBlicense Frontend

The PBlicense frontend can be used to give your website visitors access to trial licenses for your products. You can specify the different application settings for the frontend in the configuration file "**pblicense/configuration/weblicense.cfg**". You can open the frontend with a click on the button "**PBlicense - Frontend**" on the PBlicense Main Menu, through a link on the "**License Generator**" page or also directly by entering the URL (Example: <http://example.com/pblicense/front/frontend.php>) in your browser:

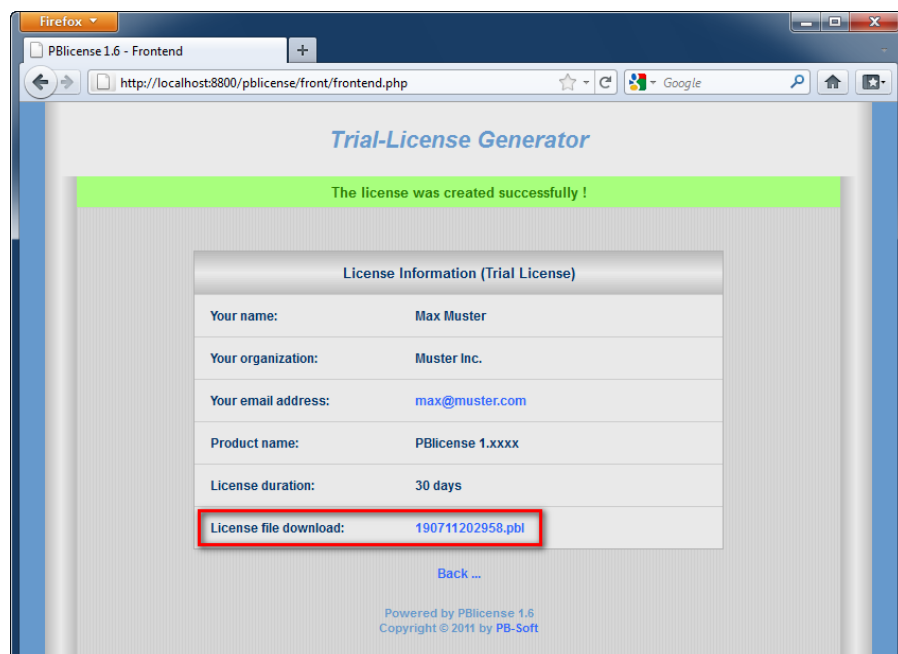


The frontend works similar to the license generator of the main application, but the visitor can only insert the footprint and if enabled the access code to create a license file. All the options are disabled. The license duration is specified in the configuration file. The user has to go through the following three steps to create a new license file:

- Copy a valid footprint into the text area.
- Enter his access code into the form field.
- Click on the button "**Create License**".



If all the input data is correct a new license will be created and the user can save the license file to his local computer or display it in a new browser tab/window:



24.2 License Analysis Tool

Overview

The License Analysis Tool can be used to check an existing license file, get information about the validation process and see what is the problem if an error occurs during validation. This tool consists of the following files:

- **analysis.php** (main script to analyze license files)
- **application.cfg** (emulates the customer computer)
- **validate.php** (validation engine for testing MD5 hash)
- **xxxxxxxxxxxxx.pbl** (license file which has to be checked)

Because normally we can not analyze the customers license on the customers computer, we have to emulate (or override) the settings the customer computer provides for creating a system footprint. The configuration file "**application.cfg**" allows us to specify exactly the same settings like the customer computer would provide and therefore the license (created for the customer computer) will also work locally.

This method would also work for every script you distribute to your customers and they would not have to buy a license from you, but the only difference is that your script which contains the php code to protect your product has to be **ENCODED** and therefore can not be altered by your customers!

Edit the Configuration

To check a license file you first have to edit and customize the configuration file "**pblicense/analysis/application.cfg**" and make some changes. Please check the example configuration file on the next page:

```

1 <?php
2
3 // =====
4 // Specify the server variables if necessary. If you don't want to
5 // specify them and use instead the variables direct from the server
6 // please disable the following entries with // characters.
7 //
8 // Example (disabled): //$server['server_name'] = "localhost";
9 // Example (enabled):  $server['server_name'] = "localhost";
10 //
11 // This data is normally taken directly from the webserver but you can
12 // specify your own data if you don't check the license on the same
13 // server as normally the application is running.
14 // =====
15 $server['script_filename'] = "application.php"; // Script filename
16 $server['server_name']     = "localhost";      // Server name
17 $server['server_addr']     = "127.0.0.1";      // Server address
18 $server['document_root']   = "Z:\www";        // Document root
19 $env['term']               = "not available";   // Server environment
20
21 // =====
22 // Specify the application user and organization. This data is entered
23 // by the user into the configuration file.
24 // =====
25 $check[0] = "John Walker"; // Username
26 $check[1] = "John's Pub";  // Organization
27
28 // =====
29 // Specify the necessary data from the protected script. This data is
30 // normally inside the code of the protected script itself und is
31 // encoded. The user does not know this data !
32 // =====
33 $check[2] = "Calculator"; // Product name
34 $check[3] = "1.2";        // Product version
35 $check[4] = 2;            // IP adress range
36 $check[5] = 1;            // Version range
37 $check[6] = "1111100000"; // Option flags
38 $check[7] = "9dui48t7ezh4e7fz3gh773u478rff7"; // Product key
39
40 // =====
41 // Specify the script path of the protected script. You are testing
42 // the license with the licensecheck script and maybe you use not the
43 // same path like the protected application.
44 // =====
45 $check[8] = "Z:\www\calculator"; // Used script path
46
47 // =====
48 // Specify the md5 hash of the validation engine.
49 // =====
50 $validate_md5_hash = "cbc11318f741416a56b53d2e75c6e1e4"; // MD5 hash
51
52 ?>

```

Line 15 -19 specifies the server variables which have to match the settings of the webhost where the application normally is running. If you are testing on another host you have to edit these values:

```
15 $server['script_filename'] = "application.php";
16 $server['server_name']     = "localhost";
17 $server['server_addr']     = "127.0.0.1";
18 $server['document_root']   = "Z:\www";
19 $env['term']                = "not available";
```

Line 25 - 26 specify the name and organization of the licensee. Normally those values are provided by the configuration file of the application. Please edit the settings so that they match the data of the license file (you can open the license file with a text editor and copy the username and organization):

```
25 $check[0] = "John Walker";
26 $check[1] = "John's Pub";
```

Line 33 - 38 specify the product specific settings. You can get the exact settings by opening the configuration of your product on the **"File Integration"** page:

```
33 $check[2] = "Calculator";
34 $check[3] = "1.2";
35 $check[4] = 2;
36 $check[5] = 1;
37 $check[6] = "1111100000";
38 $check[7] = "9dui48t7ezh4e7fz3gh773u478rff7";
```

Line 45 specifies the script path. Please edit this variable and enter the path to the script file on the customers host.

```
45 $check[8] = "Z:\www\calculator";
```

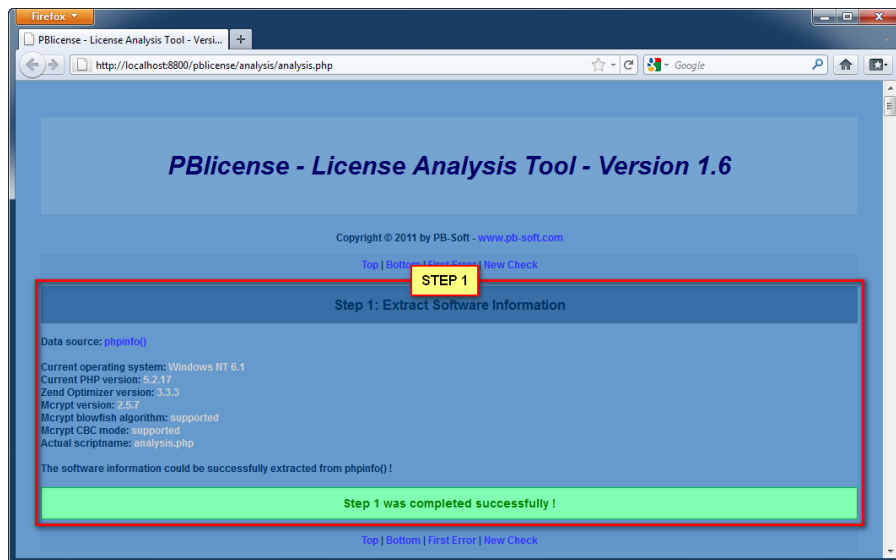
Line 50 specifies the MD5 hash of the validation engine.

```
50 $validate_md5_hash = "cbc11318f741416a56b53d2e75c6e1e4";
```

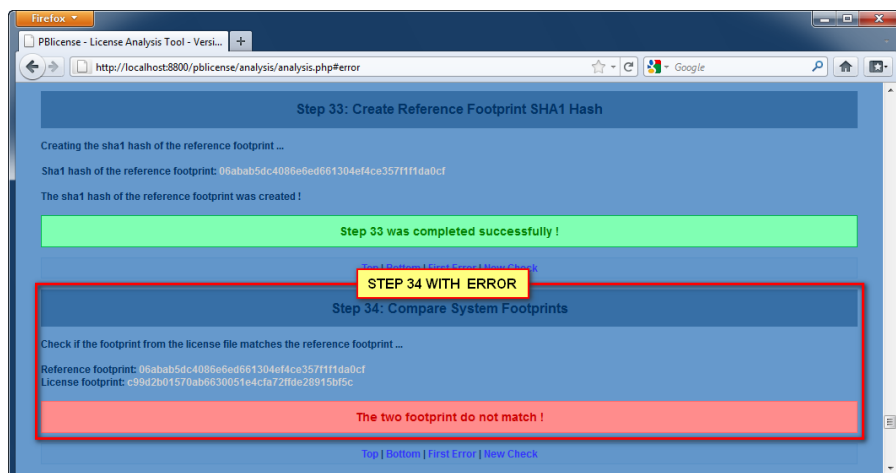
Analyze a License File

If you have customized the configuration file you can run the analyzing script from the PBlicense Main Menu. The license will be analyzed and a detailed report will be displayed.

The analysis consists of 37 steps and for every step there will be a success message displayed. If the message banner is green the step has completed successfully, if the banner is red an error has occurred. On the following image you can see the step 1 which was completed successfully:



If there is an error, you can see where it has occurred. In the following example the error occurred in step 34 and the message indicates that the two footprint does not match:



25 Backup

Attention: Please make backups frequently!

If you have a backup and don't need it it's much better that if you need a backup but don't have it!

It's very easy to backup PBlicense! You just can backup the whole PBlicense directory! There is no database to backup, just backup the whole directory "**pblicense**" with all subdirectories included and copy the backup to a save place! It's not a lot of data, normally it will be less than 10 MB (including this user manual)!

Attention: Please make backups frequently!

26 Buying PBlicense

PBlicense was made to help developers to protect their applications against unlicensed use.

Unlike other applications you don't have to worry about the number of licenses you will create. With PBlicense you can create as many licenses as you want. There is no extra fee for license packages or yearly fees to use PBlicense!

If you buy PBlicense you can use it as long as you want. The purchase price includes all new versions during one year and also a superior customer support.

We offer trial versions for all of our software products so that you can test them and check if they run on your server without any problems and of course if you like the software. We believe that you should only pay for a product that you like and only for software you can test before you have to buy it!

Please test the trial version before you buy a license!

If you like the PBlicense application you can buy an unlimited license from the [PB-Soft Website](#).

If you have registered PBlicense you should send us a new footprint (see section "**Unlock the Software**") and we will send you the license file for the full version of PBlicense.

27 Licenses

PBlicense also uses some external software which is listed below. We would like to thank the creators for letting us use their software!

You can find all the following license files in the subdirectory "**licenses**":

| | |
|------------------------------|---------------------|
| licence_apache.txt | (Apache License) |
| license_pblicense.txt | (PBlicense License) |
| license_pclzip.txt | (PCLzip License) |
| license_php.txt | (PHP License) |
| license_zend.txt | (Zend License) |

27.1 Apache Webserver



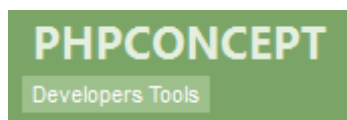
For the localhost installation package the Apache Webserver is used. The Apache Webserver uses the "**Apache License**", Version 2.0, from January 2004.

Apache Website: ... <http://www.apache.org>

License Link: <http://www.apache.org/licenses/>

Local License: license_apache.txt

27.2 PclZip Library



For the PBlicense Installer Script the PHPConcept PclZip Library is used. With this library the installer can compress and decompress files and folders during the installation. The PHPConcept PclZip Library uses the "**GNU Lesser General Public License**", Version 2.1, from February 1999.

Application Author: Vincent Blavet

PHPConcept Website: .. <http://www.phpconcept.net>

License Link: <http://www.gnu.org>

Local License: license_pclzip.txt

27.3 PHP-Package



For the localhost installation package the PHP package is used.
The PHP-Package uses "**The PHP License**", Version 3.01, 1999 - 2010.

PHP Website:..... <http://www.php.net>

License Link: <http://www.php.net/license/>

Local License: license_php.txt

27.4 Zend Optimizer



For the localhost installation package the Zend Optimizer is used.
The Zend Optimizer uses the "**Zend License Agreement**".

PHP Website:..... <http://www.zend.com>

Local License: license_zend.txt

28 Support

If you have a question or a problem while installing or using PBlicense, please contact us - we are always glad to help you!

You can contact us using the following methods:

Website: <http://www.pb-soft.com>

Webstore: <http://www.pb-soft.com>

E-Mail Address: support@pb-soft.com

29 Feedback

We always like feedback from you so that we can improve our products. We don't want only positive feedback; we also like constructive criticism so we can change for the better.

If you think there is something missing or there is an error in this manual, please contact our support so we can add the missing information or fix the error in the manual!

Thank you a lot for your attention and have a nice day!

A handwritten signature in black ink, appearing to read 'P. Biegel', with a stylized flourish at the end.

Patrick Biegel