

Bitrix Site Manager 5.x

Installation Guide



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Preface

This manual is intended for use by the Bitrix Site Manager users. This document covers the following most important issues:

1. installation of the trial and registered versions;
2. installation using the Windows installer;
3. the product registration process on the Bitrix web site and obtaining the source codes which enables you to turn your product copy into the fully functional version with open source code;
4. using the update system;
5. using the back-up and restoration built-in tools.

This manual also describes how to transfer your site from the local machine to a remote server, check the remote system to satisfy the minimum requirements. The remote system fine tuning issues are also discussed.

System requirements

Supported standards. Client software requirements.

Bitrix Site Manager uses and supports the following technologies.

§ **HTML/XHTML**

The system places no restrictions on templates developed with HTML/XHTML.

§ **JavaScript**

The system unconditionally supports the use of JavaScript in the site templates, menus and pages.

§ **AJAX**

This technology is widely used in the Control Panel to speed up the system response and decrease server-to-client data traffic. The system places no restrictions on using AJAX in the public section.

§ **CSS**

The design of each site template can be controlled via separate CSS files. Analogously, separate style sheets can be used with public components as well as module templates (e.g. forum, helpdesk, polls). The Control Panel features the use of visual themes: users can create their own custom visual themes through the cascading style sheets.

§ **Flash**

The system has limited support for the Macromedia (now Adobe) Flash technology. Flash plugins can be used in the following ways:

- as a part of the site template design;
- as advertising banners;
- as user input controls deliberately designed to interact with the system.

§ **RSS**

The system supports RSS versions 0.92 and 2.0. In the core, RSS is used to exchange information between the Information Blocks and Blogs modules.

§ **CSV**

The system uses the CSV standard to exchange information between the Information Blocks module and other systems.

§ **Browser support**

Bitrix Site Manager was developed to support the most popular browsers. The public section appearance is browser-independent. The Control Panel is optimized for the maximum performance with the following browsers:

- Internet Explorer 5.5, 6.x or higher;
- Firefox 1.0.5, 1.5.x or higher;
- Opera 8.x or higher.

Server software requirements

All product versions are shipped as an archived bundle. Before you start the installation, unpack the downloaded package and save the unpacked file on your local machine. Then, upload the unpacked file to your remote server in the root directory of the site. The Professional edition requires approx. 80 Mb of free disk space, the Start edition – 31 Mb, the Standard edition – 38 Mb.

You should prepare your system for the Bitrix Site Manager installation. If you install the product with a public hosting service, please ensure it conforms the minimum system requirements.

1. **PHP enabled web server:**

- a. **Apache** (recommended) – Bitrix Site Manager was developed for Apache 1.3.x. However, the system will successfully run on Apache 2.x.

- b. **IIS** (Internet Information Server) (also supported) – the system is able to run on IIS 5 and IIS 6. Internet Information Server requires additional setup to fully support Bitrix Site Manager.
 - c. **Eserv** (also supported) – the system was tested for compatibility with Eserv.
2. Bitrix Site Manager requires PHP version 4.3. or higher. Generally, the system starting with the version 4.1.6 can work with PHP 5 as well. It is recommended to use the latest stable release of PHP to prevent PHP failures and to provide the maximum security on the server side.

The following PHP extensions are required:

- a. **GD** – image handling library. Required for building graphs and charts which is essential for the Statistics, Advertising and Helpdesk modules. The library is also used with CAPTCHA.
 - b. **PHP XML** – used by the update system. This library is included in the standard installation package of PHP. The Windows version of PHP has a built-in XML.
 - c. **Free Type** – required for the correct functioning of CAPTCHA.
 - d. **Regular Expression support** (POSIX and Perl compatible) – the system requires the regular expression support at the core level.
 - e. **Zlib compression** – the compression library is required by the Compression module and the update system to decrease the amount of transferred data.
3. For proper functioning, Bitrix Site manager requires the following PHP parameters to be set
- a. **memory_limit = 32M;**
Minimum amount of PHP memory required by the system core.
Note: this parameter can be changed:
 - i. by editing the file **php.ini** directly;
 - ii. from within a script calling **ini_set("memory_limit", "64M");**
This call is added to **/bitrix/php_interface/dbconn.php** at the installation time using the user-supplied value;
 - iii. in the file **.htaccess** using the directive: **php_value memory_limit 64M**
Note: parameters can be altered from within the **.htaccess** file if the following conditions are met:
 - 1. Apache (or compatible) web server is used;
 - 2. **.htaccess** files are processed by a web server, which means that web server configuration file (**httpd.conf**) contains the directive **AllowOverride** set to **All** or any value other than **None**;
 - 3. PHP is installed as an Apache module (if PHP runs as CGI all the required parameters must be set when compiling PHP)
 - b. **file_uploads = On;**
The parameter defines whether files can be uploaded to a server or not. Additionally, the following variables are also to be set:
 - i. **upload_tmp_dir = <folder_name>**
 - ii. **upload_max_filesize = <required file size limit>**
Important! It is essential that the specified directory exists, and a current user (under which the web server runs) is granted the write permissions for this folder.
 - c. Proper PHP session handling is the indispensable condition. You are recommended to check that the folder where the session files are saved exists.
Note: if the parameter **session.save_path** is missing from **php.ini**, the default value of **/tmp** is used.
4. Install the desired database engine.
- a. **MySQL**
Since the version 5.0, the system requires the MySQL version at least 4.0.18 or higher.

MySQL 5 is supported starting from the system version 4.1.6. However, certain fixes has been made later, in versions 5.0. To support the MySQL, the system requires the MySQL support for PHP to be installed.

b. **Oracle and Oracle XE**

The system is shipped with full support for the Oracle database engines. The system requires Oracle 9.0 or higher (or a stable release of Oracle XE) to be installed.

c. **MSSQL XE** The system fully supports the MSSQL database engines. The system requires MSSQL 2000 or higher (or MSSQL XE) to be installed.

The fuller information about database features is given in the training course [“Installing and configuring Bitrix Site Manager”](#).

5. If you install the trial or encoded version of Bitrix Site Manager, install and configure the [Zend Optimizer](#) version 2.1.0 or higher. (We strongly recommend version 2.5.7 or higher).
6. If you re-install the system, first erase all tables from the database.
7. Please ensure there are extra 10 Mb of free disk space for the proper update system functioning.

Important!

Bitrix Site Manager can be installed and function correctly only if the system satisfies the minimum requirements.

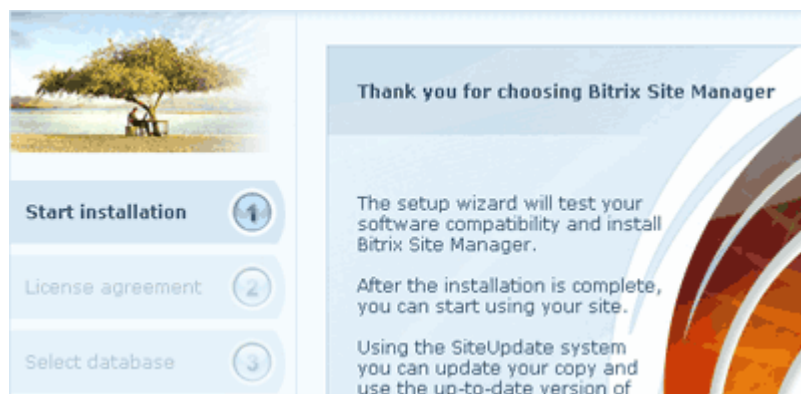
Should you have any questions on the installation process, you can always address them to the Bitrix [Helpdesk](#).

Installation procedure

- § Open the page http://< your_site >/index.php in your browser (replace <your_site> with the real address of your site) and hit Enter.
- § Follow the installation wizard instructions.

Step 1. The start

The first Wizard window informs you of the installation start up and displays the basic information on the product.



Click **Next** to continue installation.

Step 2. The License Agreement

This step displays the license agreement text. You have to read it carefully and accept its terms by checking the box **"I accept the License Agreement terms"**.

Click **Next** to continue installation.

Step 3. Choosing the database type

This step creates a license file and allows you to choose the database type with which the system will run.

License Key	
* License key:	<input type="text" value="demo"/> <p>If you have purchased the system, please enter the license key that you have received by e-mail. If you intend to install the product for evaluation purposes, please leave the value DEMO.</p>
Select the type of database	
* Database: Database to be installed	<input checked="" type="radio"/> MySQL <input type="radio"/> Oracle <input type="radio"/> Microsoft SQL Server <p>The type of database that you select must conform with the type of your license key. Selecting wrong database type violates the license agreement and may result in partial or full malfunction of the site. If you install the trial version of the product (the DEMO key), you can choose any type of database.</p>

- § **License key:** if you have purchased the product, enter the product license key here. If you install the trial version of the product, leave the default field value (**demo**).
- § **Database:** choose the type of the database which support is to be installed. The selected database type must conform to the provided license key. Selecting the inappropriate database type violates the license agreement and may cause failures on the site.

Note: The MSSQL database type option will be available if only your system has an ODBC support. The Oracle option requires that the OCI8 library is installed (**php_oci8.dll**). If your system does not conform these requirements, you will not be able to use MSSQL or Oracle databases.

Click **Next** to continue installation.

Step 4. Preliminary verification

The installation wizard verifies if your system conforms the minimum system requirements and displays advices so that you can configure the system to achieve the best performance.

If your system does not satisfy the minimum system requirements, you will see the inconsistency description in red at the top of the screen. You can find more detailed description of the problem on the page below. *You cannot proceed until you eliminate the problem.*

Checking system requirements

✘ Your PHP is working in safe mode.

Mandatory system parameters

Your system must meet the mandatory conditions. If any parameter displays in red, you have to check and fix it. Otherwise, proper functioning of the site is not guaranteed.

Parameter	Required	Current value
Web server version Apache	1.3.0 and higher	1.3.27
PHP version	4.1.0 and higher	4.3.7
PHP settings:		
- safe mode	Off	On
- path to store the session parameters	Set	D:/tmp accessible for writing


If your system does not comply with the **recommended** settings, you will see the inconsistency description in **red** at the top of the screen. You can find more detailed description of the problem on the page below. You can continue the installation but you are strongly recommended to configure the system to match the recommended settings. After the installation, you can verify settings using the **Site check** menu of the administrative section.

Click **Next** to continue installation.

Step 5. The database creation

At this stage, the installation wizard creates the database connection configuration file. The database is populated with data.

For MySQL

Database settings	
* Server:	<input type="text" value="localhost"/> Server where database system is working
Create user to connect to database	<input checked="" type="checkbox"/>
* New user:	<input type="text" value="db_user"/> Login to connect to database
Password:	<input type="password" value="••••••••"/> Password to connect to database
Create database:	<input checked="" type="checkbox"/>
* New database:	<input type="text" value="sitemanager5"/> Database name where Bitrix will be installed
* Admin:	<input type="text" value="db_admin"/> Username of databases admin
Admin password:	<input type="password" value="••••••••"/> Password of databases admin
Database tables type:	<input type="text" value="standard"/>  Types of tables different from the standard type are available from MySql 4.0

- § **Server:** address of the server on which the database runs. For local servers (or if the product is installed on the same server where the database is installed), this parameter is usually *localhost*;
- § **Create user to connect database:** checking this option creates the database user with the name and password specified in the fields **User** and **Password**. Values of these fields will be stored in the database connection configuration file;
- § **User:** specify the user name (login) to access the database;
- § **Password:** enter the user password to access the database;
- § **Create database:** Check this option to create the database with the name specified in the next field. You have to provide the required information in the **Administrator** and **Administrator password** fields;
- § **Database:** Name of the database to which the product will be installed;
Note! If you already have a registered database user and the database exists, do not fill the below fields. The system will use the user name and password to connect to the database. If the database does not exist and the administrator credentials are in effect, the following options are available.
 - *Create the database, do not create a user*
The administrator credentials are used as the user name and password. They will be saved in the database connection configuration file (**/bitrix/php_interface/dbconn.php**). The database administrator user name and password should be specified in the fields **Administrator** and **Administrator password**.
 - *Create a user, do not create the database*
In this case, the desired user name and password are to be provided. They will be saved in the database connection configuration file (**/bitrix/php_interface/dbconn.php**). The option **Create user to connect to database** must be activated. The database administrator user name and password should be specified in the fields **Administrator** and **Administrator password**.
 - *Create the database and a user to connect to it*
The desired user name and password are to be provided. They will be saved in a database

connection configuration file (`/bitrix/php_interface/dbconn.php`). The options **Create user to connect to database** and **Create database** must be both activated. The database administrator user name and password should be specified in the fields **Administrator** and **Administrator password**.

Note: the database administrator user name and password are used only at the installation and database creation time. These data are not stored in the system.

- § **Administrator:** administrator login to be used for connection to the database.
- § **Administrator password:** administrator password to be used for connection to the database.
- § **Type of tables for database:** Select here the required type of tables. MySQL implements custom table types since version 4.0

For Oracle

Please note! Before installing, you have to configure the web server environment:

1. the `NLS_LANG` variable is to be set to an appropriate encoding (for example: `NLS_LANG=ENGLISH.CP1252`)
2. the decimal point is to be set to "." (`NLS_NUMERIC_CHARACTERS=.`)

The following are the fields that you have to fill in.

1. **User:** User name (login) to access the database;
2. **Password:** User password to access the database;
3. **Connection string:** This field should contain either the name of the Oracle local instance, or the record in the file `tnsnames.ora` that you want to connect to.

Example of the Oracle local instance name:

```
(DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)(HOST = 127.0.0.1)(PORT = 1251)))(CONNECT_DATA = (SERVICE_NAME = ORCL)))
```

Note! If you already have a registered database user and the database is created by this moment, do not fill the below fields. The system will use the user name and password to connect to the database.

4. **Create user to connect to database:** checking this option creates the database user with the name and password specified in the fields **User** and **Password**. Values of these fields will be stored in the database connection configuration file. Creating a user implies that you provide the administrator user name and password in the next fields.
5. **Administrator:** administrator login to be used for connection to the database.
6. **Administrator password:** administrator password to be used for connection to the database.

For MSSQL

Database settings	
* DSN:	localhost For example: DRIVER=SQL Native Client; SERVER=BX
Create user to connect to database	<input checked="" type="checkbox"/>
* New user:	db_user Login to connect to database
Password:	●●●●●●●● Password to connect to database
Create database:	<input checked="" type="checkbox"/>
* New database:	sitemanager5 Database name where Bitrix will be installed
* Admin:	db_admin Username of databases admin
Admin password:	●●●●●●●● Password of databases admin

1. **DSN:** the string used to connect to the server on which the database management system runs. The string should contain, at least, the connection driver parameters and the server name. Optionally, you can include the user name, password or other parameters in the string.

Note: sometimes it is desirable to specify a user DSN name here (such a connection must be created beforehand). For local servers (if the product is installed on the same server as the database), this parameters has a value *localhost*.

2. **Create user to connect to database:** checking this option creates the database user with the name and password specified in the fields **User** and **Password**. Values of these fields will be stored in the database connection configuration file.
3. **User:** User name (login) of the database user to access the database.
4. **Password:** User password to access the database.
5. **Create database:** Check this option to create database with the name provided in the previous field.
6. **Database:** Name of the database to which the product will be installed.

Note! If you already have a registered database user and the database exists, do not fill the below fields. The system will use the user name and password to connect to the database.

If the database does not exist and the administrator credentials are in effect, the following options are available.

Create the database, do not create a user

The administrator credentials are used as the user name and password. They will be saved in a database connection configuration file (**/bitrix/php_interface/dbconn.php**). The database administrator user name and password should be specified in the fields **Administrator** and **Administrator password**.

Create a user, do not create the database

In this case, the desired user name and password are to be provided. They will be saved in a database connection configuration file (**/bitrix/php_interface/dbconn.php**). The option Create user to connect to database must be activated. The database administrator user name and password should be specified in the fields **Administrator** and **Administrator password**.

Create the database and a user to connect to it

The desired user name and password are to be provided. They will be saved in a database connection configuration file (**/bitrix/php_interface/dbconn.php**). The options Create user to connect to database and Create database must be both activated. The database administrator user name and password should be specified in the fields Administrator and Administrator password.

Note: the database administrator user name and password are used only at the installation and database creation time. These data are not stored in the system.

7. **Administrator:** administrator login to be used to connect to the database.
8. **Administrator password:** administrator password to connect to the database.

Additional parameters

Additional parameters	
File access permissions:	<input type="text" value="0777"/> Enter permissions enough for write access to server files
Folder access permissions:	<input type="text" value="0777"/> Enter permissions enough for write access to server folders
Memory limit:	<input type="text" value="64"/> Mb The maximum amount of memory in Mb that a script is allowed to allocate (can be ignored on some hostings)

1. **Access permissions for site files:** Permissions that will be applied to all newly created files. Access permissions should allow the web server to write files. The default value is 0777;
2. **Access permissions for site folders:** Permissions that will be applied to the newly created folders. Access permissions should allow the web server to write to folders. The default value is 0777;
3. **Memory limit:** Maximum amount of memory available to site scripts. This parameter may be ignored by some hosting services.

Note!

You can alter the database connection parameters manually by editing the file /bitrix/php_interface/dbconn.php. The file will be created **after** the installation is completed.

Click **Next** to continue installation.

Step 6. Configuration

On this step, the web site is configured and a web site **administrator** account is created. The administrator account provides full access to the web site management and configuration. After the installation is complete, you can create more users with less permissions.

Site administrator settings	
* Name:	<input type="text" value="John"/>
* Last name:	<input type="text" value="Patterson"/>
* E-mail:	<input type="text" value="webmaster@oursite.com"/>
* Login (min. 3 characters):	<input type="text" value="admin"/>
* Password (min. 6 characters):	<input type="password" value="••••••"/>
* Confirm password:	<input type="password" value="••••••"/>

Fields marked with * are required.

1. **First name:** site administrator first name;
2. **Last name:** site administrator last name;
3. **E-Mail:** site administrator e-mail address;
4. **Login:** site administrator login to access the administrative section. Must contain at least 3 symbols;
5. **Password:** site administrator password to access the administrative section. Must contain at least 6 symbols;
6. **Confirm password:** type the password again to check entry correctness.

Note!

The provided password and login will be used further for the administrator authorization when trying to access the administrative section.


Click **Next** to continue installation.

Step 7. Finishing the installation

The system installation and the initial configuration are now finished.

Completion of installation


Congratulations! Bitrix Site Manager has been successfully installed.


 Do not use the 'refresh' or 'back' buttons on your browser.

[Register product](#)

Registering your copy of Bitrix Site Manager entitles you to:

- download and install the latest updates of the system;
- send requests to the Bitrix helpdesk service, which will allow you to obtain timely advices on any question regarding the system installation and functioning;
- activate your own account on the Bitrix private forum. This will enable you to discuss questions with other users, Bitrix partners as well as the Helpdesk staff.

 [Manage site](#)

 [View site](#)

Now you can:

1. open the Control Panel to register your copy of Bitrix Site Manager. Registered users are entitled to download the latest product updates, ask their questions in the Helpdesk, participate in discussions on the Bitrix forum;
2. open the Control Panel to start managing your site;
3. go to the **public section** of the site which is the very area your visitors access and view.

If you want, you can adjust more system settings.

1. Upload a CSV file with IP-to-country information for use with the Statistics module. You can do so in the Statistics module settings page (menu Settings, select Statistics in the drop-down menu).
2. Add the following directive to the .htaccess file in the site root:

```
php_flag session.use_trans_sid off
```

to disable session identifiers in the site links. Remember that your version of the Apache web server may not support this.

3. Add the following directives to the .htaccess file in the site root folder:

```
ExpiresActive on  
ExpiresByType image/jpeg "access plus 3 day"  
ExpiresByType image/gif "access plus 3 day"
```

to enable image caching. Your version of the Apache web server may not support this.

Registration and activation

You must register your product copy before you put your site in the actual functioning state. That is, you have to activate your license key.

Having your product registered enables you to obtain the latest system updates as well as address your questions to the Bitrix helpdesk where qualified tech support engineers will always answer your questions regarding the system features, settings and functioning.

Additionally, registration allows you to access the Bitrix private forum where you can take part in discussions, and submit a question for discussion.

The registration form contains the following fields.

Name of the company that the key has been issued for:*	<input type="text" value="John Patterson"/> <small>For personal use - your name</small>
Contact e-mail address:*	<input type="text" value="my@mail.com"/>
Contact information:	<input type="text"/>
Address of the site for use with the key:*	<input type="text" value="www.my_site.com"/>
<p>If you are not registered on the www.bitrixsoft.com, please be sure that checkbox "Create a user" is ticked and then fill in your registration info (name, last name, login and password) in the appropriate form fields. Registration on the site www.bitrixsoft.com will provide you the possibility to use Helpdesk service and Private forum for solving all the product related questions.</p>	
Create a user on the site www.bitrixsoft.com :	<input checked="" type="checkbox"/>
Your name:*	<input type="text" value="John"/>
Your last name:*	<input type="text" value="Patterson"/>
Login (not less than 3 characters):*	<input type="text" value="John"/>
Password:*	<input type="password" value="••••••"/>
Password confirmation:*	<input type="password" value="••••••"/>

1. **Name of the company:** enter here the name of the company that owns the key. Private persons should enter their name here.
2. **Contact e-mail address:** specify the e-mail address which the Bitrix specialists can use to contact you;
3. **Contact information:** provide additional contact information: extra e-mail addresses, postal address, phones etc;
4. **Address of the site for use with the key:** specify the name of the site that will be managed by the system running with the provided key;
5. **Create a user at www.bitrixsoft.com:** check this box if you are currently not registered at the Bitrix corporate site. Upon the key activation, you will be registered at the Bitrix corporate web site with the personal data specified in the fields below. This enables you to contact the Bitrix techsupport service and access the private forums.

Installing the trial version using BitrixSetup

The **BitrixSetup** script can be used to download the trial version installation package from www.bitrixsoft.com directly to your site without having to download the package to your local machine. Besides, the script allows you to extract files from the package if you cannot access your site via SSH or external software.

- Do the following to download the **BitrixSetup** script:
 - Open the page <http://www.bitrixsoft.com/download/index.php> containing product downloads;
 - Scroll to the section **Direct server-side installation with the BitrixSetup**;

- o Right-click on the **Download** link;

Direct server-side installation with the BitrixSetup	
<p>BitrixSetup script (version 5.0.9, September, 22 2006)</p> <p>The BitrixSetup script downloads trial version of the product from www.bitrixsoft.com directly to your server. Eliminates a need to download installation package to your local PC. With the BitrixSetup script, you can unpack the content management system files without having to access via the SSH or any other external applications.</p> <p>Download the script to the web site root directory and open it with a browser.</p>	<p>50K</p> <p>download</p>

- o Select **Save target as...** in the context menu;
- o Save the file as **bitrix_setup.php**;
- Establish an FTP connection to your server;
- Upload the file **bitrix_setup.php** to the root directory of your web server;
- In your browser, type **http://<your site>/bitrix_setup.php** (replace **<your site>** with the real site name) and hit **Enter**.
- The browser will display a page titled Loading Bitrix Site Manager 5.0.

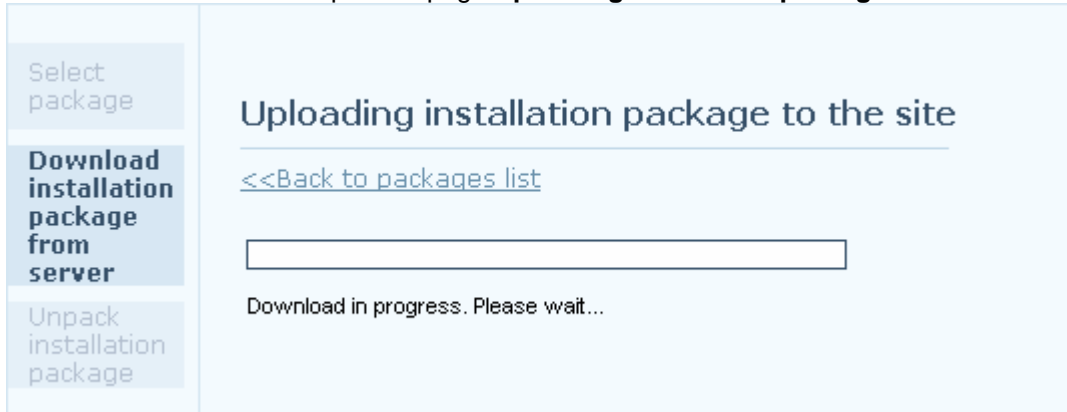
Warning! Please ensure that your web server has enough permissions to create and write files.

- In the **Select package** section, specify the product download parameters:

Select package	Select installation package
Download installation package from server	<p>Download new installation package from http://www.bitrixsoft.com</p> <p>package edition: Enterprise (for PHP version < 5) ▼</p> <p>automatically start unpacking after loading: <input checked="" type="checkbox"/></p> <p>load gradually with interval: less than 60 seconds ▼</p> <p><input type="button" value="Download"/></p>
Unpack installation package	

- o **package edition**: select the product edition whose trial version you wish to install;
- o **automatically start unpacking after loading**: the product installation package is distributed in the form of archive. Enable this option if you want the archive to be extracted automatically after the download completes;
- o **load gradually with interval**: select the duration of a single download attempt.

- Click **Download**. This will open the page **Uploading installation package to the site**.



The script will connect your server to the Bitrix server directly. It will copy the product distribution package to the root directory of the site and unpack it, if you have chosen so.

- The **<< Back to packages list** link allows you to return to the **Select package** section where you can alter the installation settings (e.g. product edition).
 - The status bar displays diagnostic messages about the current operation (e.g. loading or extracting a file). The progress bar reflects the operation flow.
- After the process of loading and extraction is complete, the browser will display the installation wizard form. Follow the wizard instructions to install the selected product edition. The installation process is described in detail in the **Installation procedure** section.

Important! After the installation, you must delete the file **bitrix_setup.php** from the root directory of your site without fail. Unauthorized access to this script may damage your site.

Please note! The process of installing the commercial version is similar to installing the trial version using **bitrix5setup.php**. Installing the commercial version using the **bitrix5setup_src.php** script requires you to enter your license key.

Installing the trial version using Windows installer

The fully-functional trial version of the product is available for free and can be evaluated for 30 days.

Testing the trial version of Bitrix Site Manager enables you to get acquainted with the system architecture and features. The sample site shipped with the product allows you to review basic functions of the system. The trial version contains all features needed to integrate the Bitrix Site Manager in the site design and get ready to launch the commercial version of your site.

If your decision is to use the Windows installer version to install the trial MySQL version, you will not need to install any additional software. The installation package will install and configure the following applications:

- § MySQL 5.0.18
- § Apache 1.3.34
- § PHP 4.4.2
- § ZendOptimizer 2.6.0

Important!

The Windows installer copies the program files to a fully isolated folder, so the Bitrix Site Manager will not disturb the existing versions of MySQL, Apache, PHP, ZendOptimizer.

Your system should conform the following minimum requirements:

- § Windows 98/ME/NT/2000/XP/2003;
- § 80 Mb of free disk space.

Preliminary actions

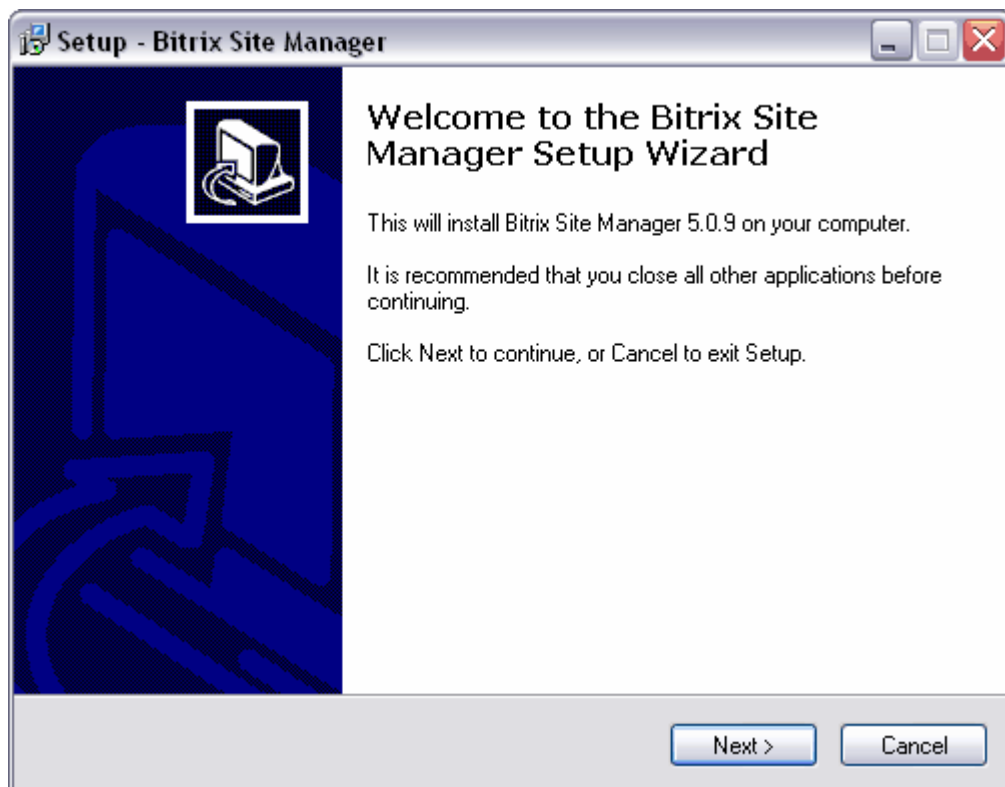
- Download the Windows installer. The latest version is always available on <http://www.bitrixsoft.ru/download/>.
- Run the setup application.

The installation wizard will guide you through the setup process. The entire installation will not take longer than 5 minutes.

To navigate through the wizard steps, you can use buttons **Next** (next step) and **Back** (previous step). The **Cancel** button interrupts the installation process.

Using the installation wizard

Step 1. Start up



This is the initial window of the installation wizard. It contains basic prerequisites and recommendations.

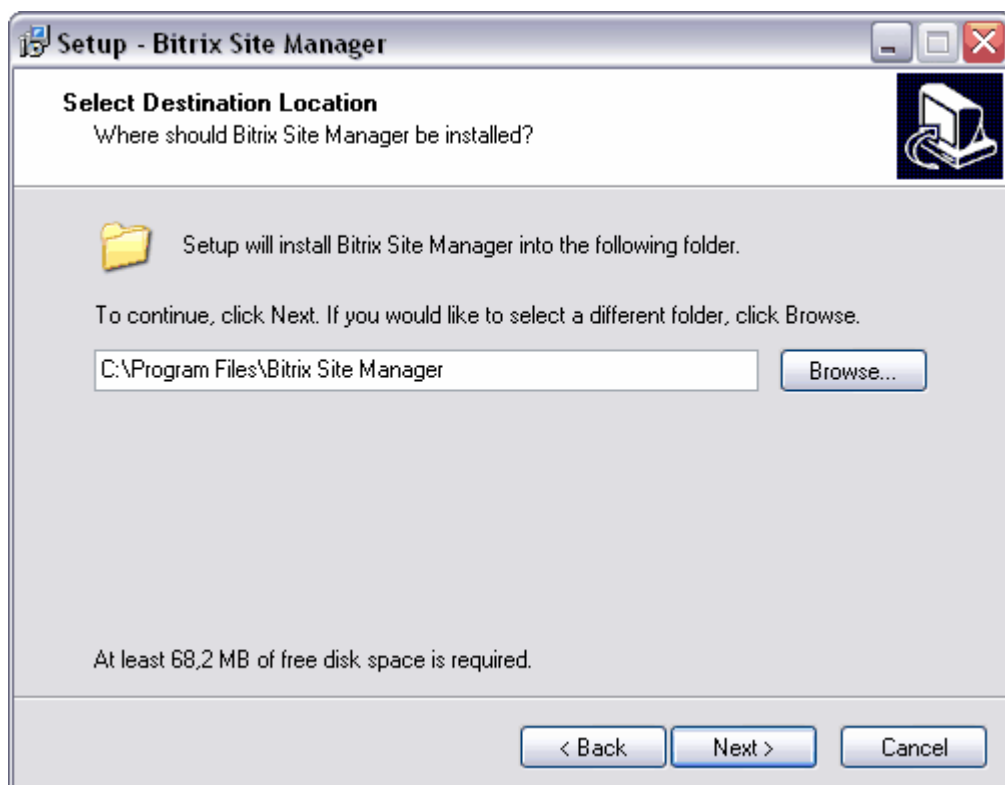
Click **Next** to go to the next step.

Step 2. The License Agreement



This step displays the license agreement text. You have to read it thoroughly and accept its terms by checking the box **I accept the License Agreement**. Click **Next** to go to the next step.

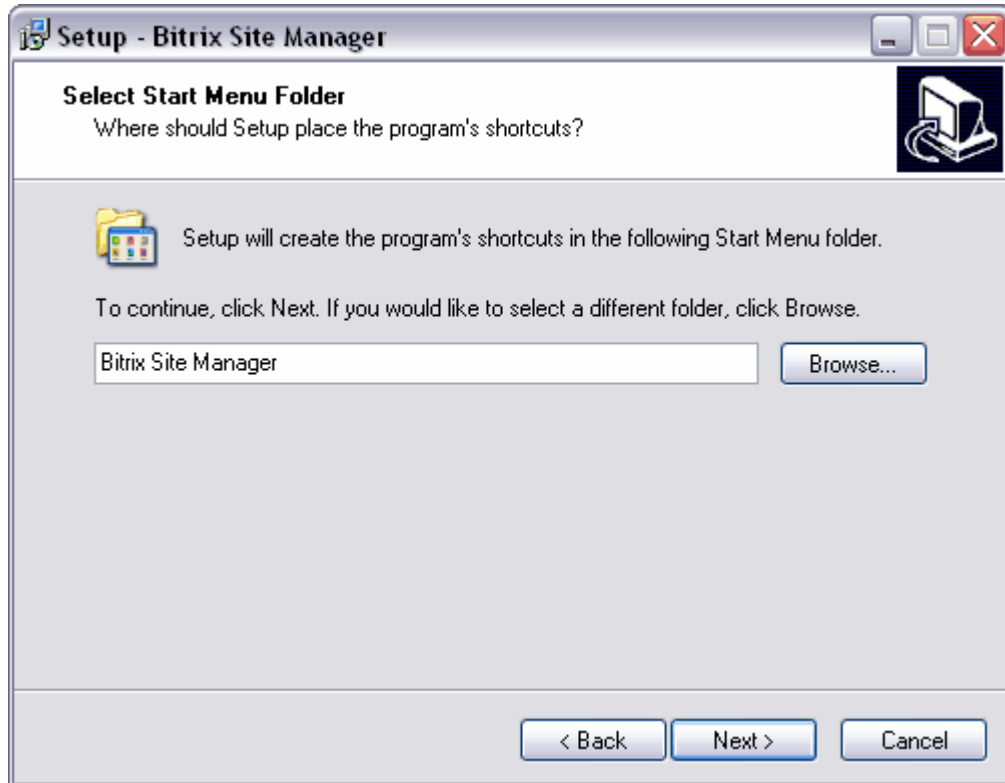
Step 3. Select installation folder



Select the directory in which the product is to be installed. By default, the wizard suggests that you install Bitrix Site Manager in **\\Program Files\\Bitrix Site Manager**. You can click **Browse** to select other installation folder.

Click **Next** to go to the next step.

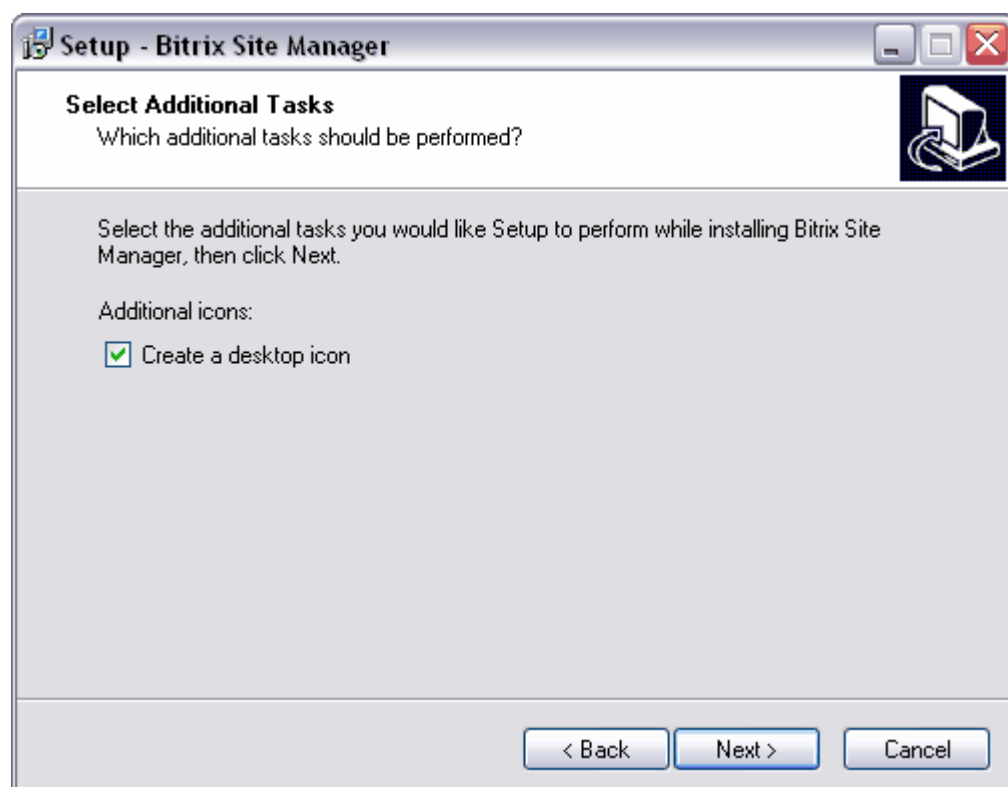
Step 4. Shortcuts



This window suggests to create a folder in the **Start** menu where the application shortcuts will be created. By default, the wizard suggests the folder *Bitrix Site Manager*. You can click **Browse** to select other installation folder, or type the name of the folder to create.

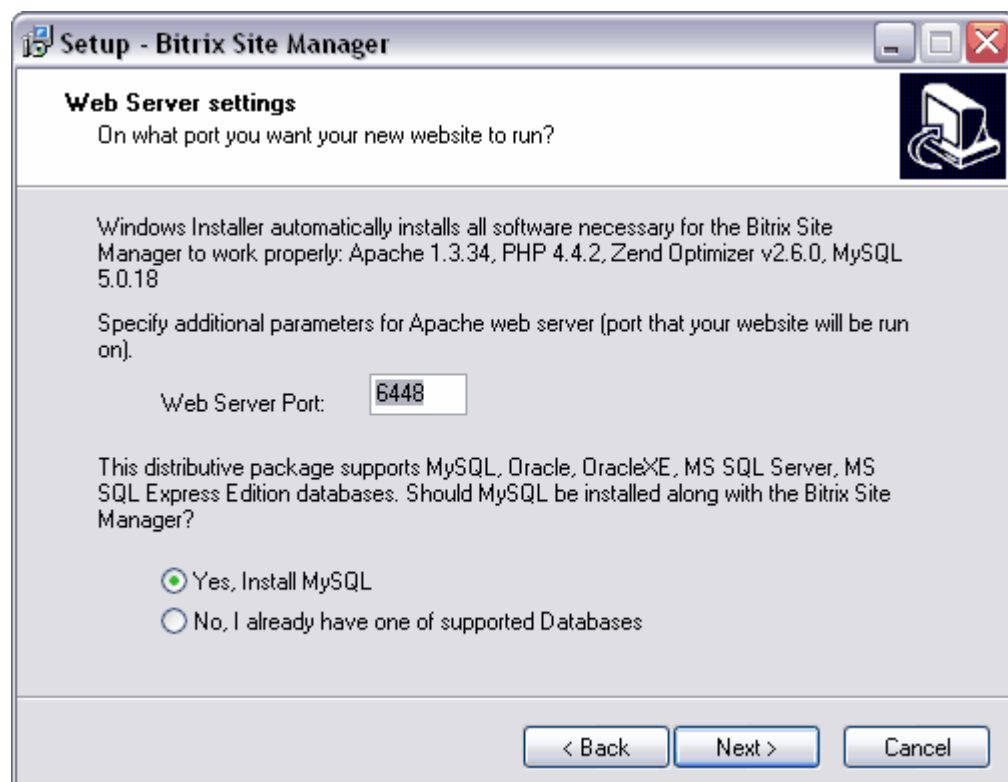
Click **Next** to go to the next step.

Step 5. More actions



This window allows you to create additional shortcuts on your desktop. Check the corresponding box if you want to place a shortcut to Bitrix Site Manager on the desktop. Click **Next** to go to the next step.

Step 6. Setting the web server and the database start-up parameters

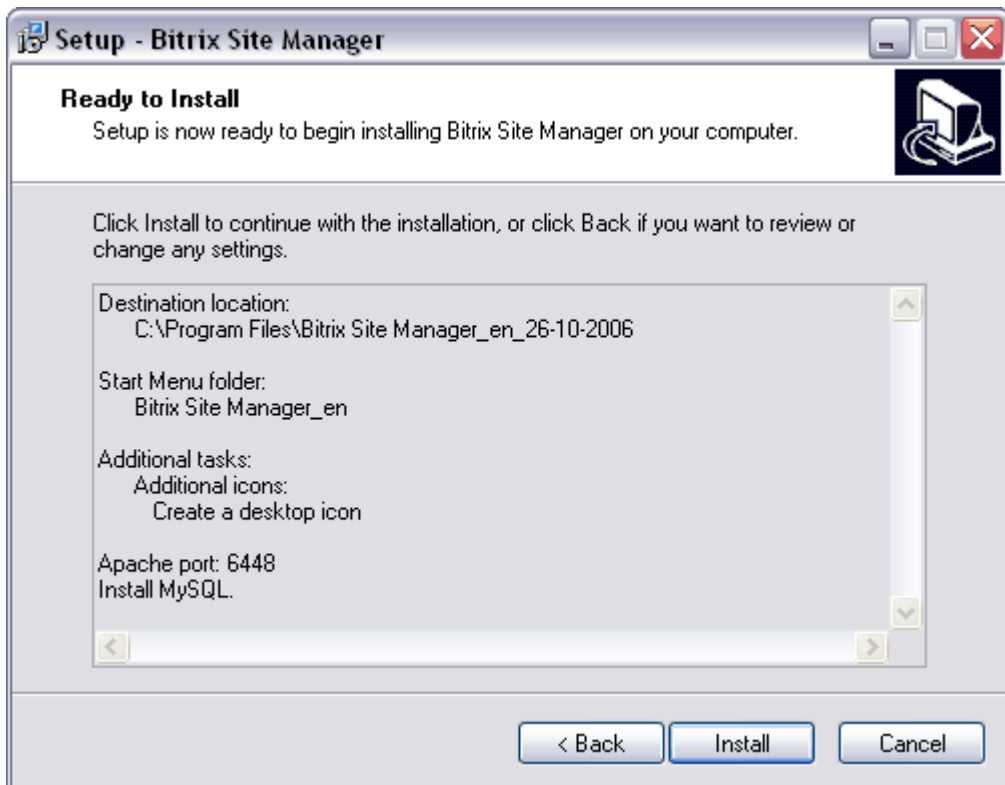


This window offers fields in which you can define additional parameters of the software being installed.

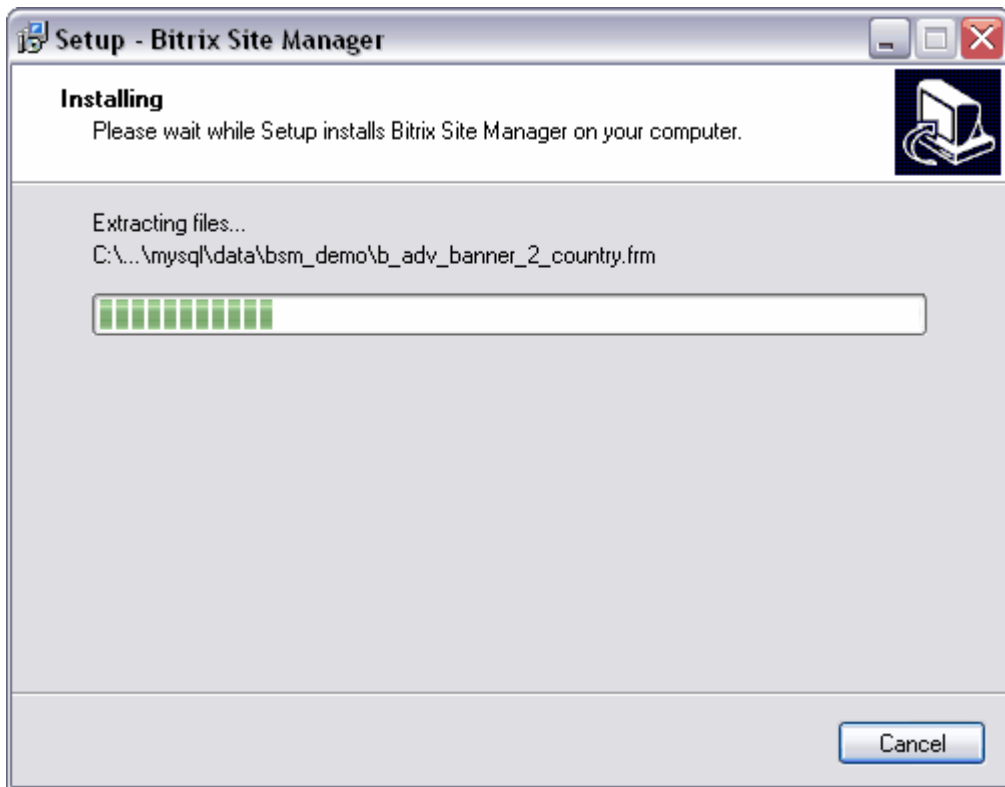
- If required, you can change the TCP/IP port, which is to be used by the Apache web server. By default, the installation wizard suggests to use the port 6448. The Apache virtual web server can be configured to run on any other port under the stipulation that it is not used by any other application (e.g. IIS).
- The Windows installer package supports the following database types: MySQL, Oracle, OracleXE, MS SQL Server, MS SQL Express Edition. If none of these database management systems are installed on your machine, you have an option to install MySQL. To do so, select **Yes, Install MySQL**.

Click **Next** to go to the next step.

Step 7. Ready to install

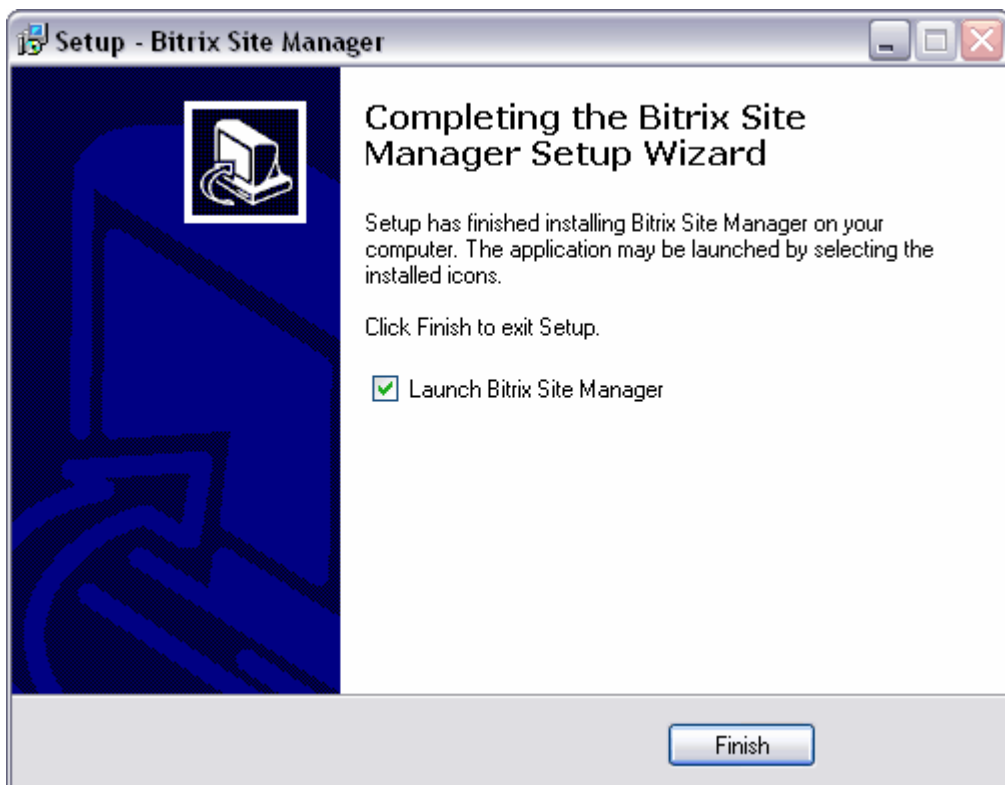


This window displays a summary of the installation preferences that you have selected in the previous steps. Click **Back** to change any settings. If you accept the proposed settings, click **Install** to start installation.



Please wait while the installation wizard copies file on your computer.

Step 8. Final



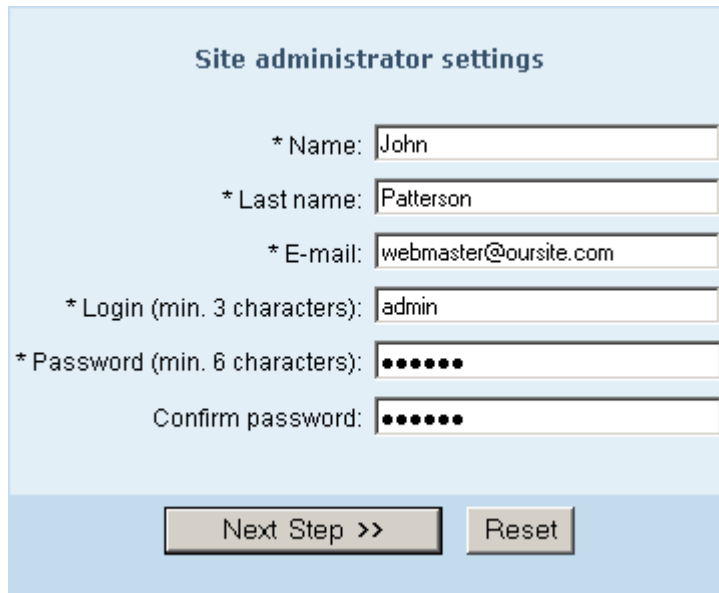
This window tells that the Bitrix Site Manager is now installed on your computer. If you want to run the program right now, leave the box **Launch Bitrix Site Manager** checked. Otherwise, uncheck it. To close the installation wizard, click **Finish**.

Running the application

First run

If you have left the box **Launch Bitrix Site Manager** checked on the last screen of the installation wizard, the system will run automatically right after the wizard is closed.

When running for the first time, the system will ask you to enter the administrator preferences:



Site administrator settings

* Name:

* Last name:

* E-mail:

* Login (min. 3 characters):

* Password (min. 6 characters):

Confirm password:

Fields marked with * are required.

7. **First name:** site administrator first name;
8. **Last name:** site administrator last name;
9. **E-Mail:** site administrator e-mail address;
10. **Login:** site administrator login to access the administrative section. Must contain at least 3 symbols;
11. **Password:** site administrator password to access the administrative section. Must contain at least 6 symbols;
12. **Confirm password:** type the password again to check entry correctness.

Click **Next**.

✓ [Launch Bitrix Site Manager](#)

Go to the administrative section to adjust more settings, manage content, add news etc. You can access the administrative section anytime using the link in the top toolbar of the public section (the toolbar will become visible after authorization), or by navigating to http://<your_site>/bitrix/.

✓ [Change site design](#)

Go to the administrative section and adjust templates for your site. This page will help you to install or delete site design layouts.

✓ [Go to System Update](#)

Go to System Update page of the administrative site section. This page allows you to register your copy of the "Bitrix Site Manager" and update the software modules.


✓ [Go to the public section](#)

Go to the public section of your site visible to your visitors.

✓ [Go to Bitrix web site](#)



Go to [Bitrix web site](http://www.bitrixsoft.com) (<http://www.bitrixsoft.com>) and learn the latest new on our product. Please feel free to ask questions on Bitrix Site Manager at our [forum](#) or use the [automated technical support service](#).

Now you can:

- § go to the administrative section for more configuration preferences, adding news etc. Later you can always access the administrative section by clicking  on the control toolbar at the top of the screen (the toolbar becomes visible upon the successful authorization);
- § go to the site template management page in the administrative section. On this page you can install or delete the site design templates;
- § go to the update page in the administrative section;
- § go to the public section of the site which is the very area your visitors access and view. To do so, simply refresh the page;
- § go to the [Bitrix](#) web page where you can ask questions in the forum or address your problem to the technical support service.

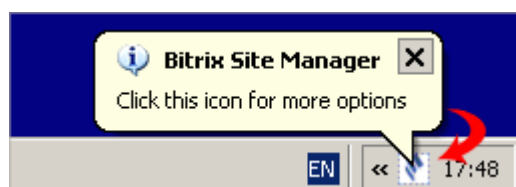
Subsequent runs

You can run the system:

- by activating the shortcut  on the Desktop (if you have chosen to create it);
- via the Start menu (**Start->Programs-> Bitrix Site Manager ->  Bitrix Site Manager**);
- by running the file **bsmadmin.exe**, located in the system installation folder (e.g. **C:\Program Files\Bitrix**).

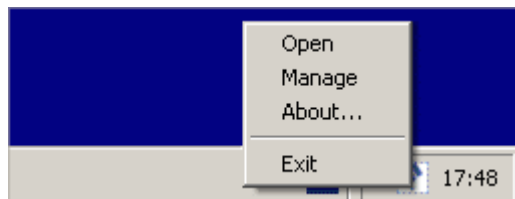
Getting started (the menu)

When the system is launched, the Bitrix Site Manager icon becomes visible in the system tray.



Being visible, this icon indicates that all the processes required by the system are started. You can now start working with the Bitrix Site Manager.

Right-click on the icon to bring up the system menu.



The menu includes the following commands:

- **Open:** opens the public section of the site (i.e. that is visible to visitors);
- **Manage:** switches to the administrative section;
- **About:** navigates to the **Bitrix** company site;
- **Exit:** quits the Bitrix Site Manager system.

Additional information

Setting up the virtual server

By default, the virtual server is configured to run at **localhost:6448**.



You can change the virtual server settings by editing the file **\Program Files\Bitrix\Apache\conf\bsm_dir.conf**.

```
DocumentRoot "C:\Program Files\Bitrix\www"
ServerRoot "C:\Program Files\Bitrix\Apache"
Port 6448
```

Uninstalling

You can uninstall the Bitrix Site Manager by:

- Menu **Start->Settings->Control panel->Add Remove Programs**

or


- Menu **Start->Programs->Bitrix Site Manager->Uninstall.**

Registration and obtaining the source code


The following operations require that you switch to the **Update** page. The update system allows to update the system kernel, modules, language files and the help system to the latest version. Besides, it allows to register your product copy if it is not registered yet and download source codes for the registered version.

Registering the trial version (DEMO)

If you install the trial version of the product, you will see the message **License not found** when switching to the **Update** section.



Step 1. Choose updates to install




Desktop > Settings > Update

ATTENTION! Use [SiteUpdate](#) technology to get the latest product version. This is trial version of Bitrix Site Manager product. Evaluation period expires in **30** days. You can purchase the full version of Bitrix Site Manager at [Bitrix](#) company site from the <http://www.bitrixsoft.com/buy/> page.

[LICENSE_NOT_FOUND] License key is not found

If you do not have a license key, please [register with us](#) and get a trial license key to activate the update system.



Please enter the obtained key on the server global settings page (menu [Settings](#)), or here:

In this case, to continue work you have to register on the Bitrix site and obtain a trial license key. Click **Get trial license key**. This will bring you to the section **Trial version registration** section.

Registration of the Bitrix Site Manager Trial version

In order to get the trial registration key and activate the SiteUpdate system you need to fill in the registration form.

Last name*:	<input style="width: 90%;" type="text" value="John"/>
Name*:	<input style="width: 90%;" type="text" value="Patterson"/>
Email*:	<input style="width: 90%;" type="text" value="my@mail.com"/>
Company:	<input style="width: 90%;" type="text" value="JobCity"/>
Phone:	<input style="width: 90%;" type="text" value="987654321"/>
Web-site*:	<input style="width: 90%;" type="text" value="http://www.jobcity.com"/> <small>Correct site URL where the trial version is located</small>
License type*:	<input style="width: 90%;" type="text" value="Enterprise"/> <input style="float: right; width: 20px; height: 20px; border: 1px solid #ccc; background-color: #ccc;" type="button"/>
Oracle XE / MS SQL Express:	<input type="checkbox"/>
<input style="border: 1px solid #ccc; padding: 5px 15px;" type="button" value="Send"/>	

This section contains a registration form that you need to fill in to get the trial license key. Fields marked with * are required.

- **Last name, First name:** specify your last and first names;
- **E-mail:** specify your e-mail address. The trial key will be sent to this address;

- **Company:** the company name;
- **Phone:** phone number;
- **Site URL:** specify the exact address of a site that contains the trial version of the system;
- **License type:** select the version of the product you have just installed.

Complete the form and click **Send**. The system will inform you that your request is being processed.

Registration of the Bitrix Site Manager Trial version

Your request for registration has been accepted. Trial registration key will be sent to webmaster@oursite.com in nearest 72 hours.

Within 72 hours, a message containing the license key and the notice on its expiration date will be sent to your address.


Licence key for the Bitrix Site Manager trial version

Thank you for the interest to the Bitrix Site Manager!

Your licence key is: SM5-NA- *****
 Period of validity of this licence key is from 10/26/2006 to 11/25/2006

You should input this key on Settings page of your site (menu item "Settings").

This is automatically generated message.

Enter the received key in the [key request form](#), or on the global settings page (click , then go to **System settings->Settings**). Paste the received key in the **License key** field and click **Save**. Now you can proceed with [downloading updates](#).

After you have updated the system to the latest version, you can download the source codes. Click the link **Download source code**. The system will download the source codes from the Bitrix web site.



Your license permits you to obtain the source code for the system modules. To do so, you need the latest versions of all modules installed on your system (in other words, no updates may be available). If any of the module updates are available, please install it first.



[Download source code](#)

Now that you have downloaded the source codes, you have the fully-functional product copy with the open source codes.

Important! If you install the open source code version and enter a commercial license key, the source code download feature will not be available because all source codes are already in the distribution package.

Using Zend Optimizer

Important! The trial version requires Zend Optimizer to be installed.

The system core source code is enciphered using **Zend Encoder**. Due to the fact that PHP 5 and PHP 4 encode files are different, there are two trial version editions: for PHP 4 and PHP 5.



Note: **Zend Optimizer 3.x** is the recommended version.

To ensure that **Zend Optimizer** is installed on the server and obtain its configuration, do the following.

- Create a file **test.php**. Type the following directive in it:

```
<? phpinfo(); ?>
```

- Save the file in the root folder of the site.
- Open the file in your browser: <http://localhost/test.php>.
- The browser will display the following table:

PHP Version 5.1.1		
System	Windows NT BX 5.2 build 3790	
Build Date	Nov 27 2005 21:34:13	
Configure Command	cscript /nologo configure.js "--enable-snapshot-build" "--with-gd=shared"	
Server API	Apache	
Virtual Directory Support	enabled	
Configuration File (php.ini) Path	D:\php511\php.ini	
PHP API	20041225	
PHP Extension	20050922	
Zend Extension	220051025	
Debug Build	no	
Thread Safety	enabled	
Zend Memory Manager	enabled	
IPv6 Support	enabled	
Registered PHP Streams	php, file, http, ftp, compress.zlib	
Registered Stream Socket Transports	tcp, udp	
Registered Stream Filters	convert.iconv.*, string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, zlib.*	
This program makes use of the Zend Scripting Language Engine: Zend Engine v2.1.0, Copyright (c) 1998-2005 Zend Technologies with Zend Optimizer v2.6.0 Copyright (c) 1998-2005, by Zend Technologies		Powered By 

A text framed in red border tells that **Zend Optimizer** is installed.

Zend Optimizer

Optimization Pass 1	disabled
Optimization Pass 2	enabled
Optimization Pass 3	disabled
Optimization Pass 4	enabled
Optimization Pass 9	disabled
Zend Loader	enabled
License Path	<i>no value</i>

Important! Only the trial version requires Zend Optimizer. The commercial version is shipped with full open source code and does not want it.

Possible Zend Optimizer issues

Problem:

The following output is displayed after the site is transferred to a remote hosting:

```
Zend2002062301116956658хщ ц2 Г'ZioЫFс*ўШ ".] tq†F$Љ Й bKIШ-Ў(мЪ `e%orШJÿBR©УГ
Оэ:6ьgтm ЬY:тй YefKQ пН уwdlt» ИЮwno>сЯс-Ыпrv>Ък{?Ючсч-††ћ Ь7M¶©к-Т†,,Фгелциър
```

Solution:

Zend Optimizer is not installed. You should call your hosting techsupport service to solve this problem, or install it by yourself if possible. After Zend Optimizer is installed, the corresponding notice will be displayed in the **phpinfo()** function report.

Problem:

The following error occurs:

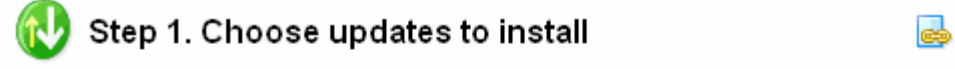
```
Fatal error: Unable to read 63841 bytes in /disk2/clients/a1922/site.ru/htdocs/bitrix/modules/main/tools.php
on line 0
```

Solution:

This error arises when running the encoded trial version. Files have been obviously transferred via the FTP in text mode. Files encoded with Zend Optimizer are **binary** so you have to ensure you transfer files in **binary** mode.

Registering the trial version with a commercial key

The registration of commercial copy of the product is performed in the same section as the system update. Click the **Register...** link.



Desktop > Settings > Update

ATTENTION! Use [SiteUpdate](#) technology to get the latest product version. This is trial version of Bitrix Site Manager product. Evaluation period expires in **30** days. You can purchase the full version of Bitrix Site Manager at [Bitrix](#) company site from the <http://www.bitrixsoft.com/buy/> page.

Your license allows you to obtain the fully-functional version of the system. Time-based evaluation restrictions do not apply to the fully-functional version.

John Patterson
License key: SM5-ML-*****
Active from 10/27/2006 till 10/27/2007
Connecting to www.bitrixsoft.com

[Register your copy >>](#)

This will register your copy with the **Bitrix** company site.

Note! If you install the encoded version using the commercial license key, you may have to renew the **Update system** first. To do so, click the **New version of the update system>>** link.

 [New version of the update system >>](#)

After that, the update engine will return with the list of available updates for your system.

Update system

The update system serves to interact between and transfer data from the update server to a client (installed product copy). The main types of interaction are:

- updating the product modules to the newest versions, which allows to obtain a new functionality and fix possible bugs;
- downloading new modules that may be available according to the license terms;
- downloading language files (files with language-dependent messages translated into other languages);
- downloading the help system in different languages;
- product registration using the license key;
- downloading the Bitrix Site Manager source code files;
- obtaining more sites by entering a coupon code.

Update system terms

The following terms are used with the update system.

System core: the **/bitrix/modules/** folder (all paths are specified relative to the root folder unless otherwise is explicitly stated). The notion of *system core* often implies the database structure.

Service area: all subfolders of the **/bitrix/** folder except **/bitrix/modules/** (i.e. the system core) and **/bitrix/updates/**. The notion of *service area* often implies the contents of the auxiliary database tables (for example, **b_event_type**).

Update system folder: the **/bitrix/updates/** directory. This folder is for exclusive use by the update system and cannot be used otherwise.

Public section: all folders related to a given product copy save the system core, service area and the update system folder. The notion of *service area* often includes the database contents except for the data of the auxiliary tables.

Product registration: results in removing the trial version restrictions from a given product installation (e.g. time restriction).

License key: a special key (a chain of symbols) which is the statement of the right to use the given product copy.

Site coupon: a special key allowing to create one more site using the given product copy.

Update server: a server that is used to send bits of update data to the update system. The update server address can be explicitly specified on the module settings page (must be www.bitrixsoft.com).

Important notes on the update system

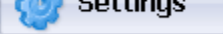

The update system does not alter the public section in any way. The service area may be changed in case of absolute necessity, but even so, existing files and records remain since they might have been changed by a user. The system core can be modified extremely, but the backward compatibility is guaranteed.

Important! If you have changed even one file of the system core or the database structure manually, the automatic update may cause unpredictable results.


The update system does not collect or send any confidential data regarding the installed product copy. The update system and the update server exchange only the technical data which is required by the update system to function correctly (e.g. current module versions or last update dates).

The modification that the update system performs on the system core is technically complex and intricate. If it fails or completes with errors, the dependent sites may become inoperative. Before update, you are recommended to ensure that a back-up copies of the database, scripts of the system core and the service area are created. It is desirable to perform update when the server load is minimum. If you encounter update problems, you need to contact the Bitrix technical support service immediately.

The update system main page

You can open the update system main page by clicking  and then selecting the **Update** menu item in the bottom left area of the Control Panel or just by clicking the  button on the top toolbar. You will see the main page of the update system.

If you see a message showing that your license key is invalid (or the license is not found), the following reasons are possible:

- if you already have a license key, enter it in the appropriate field on the update system main page (or on the **Kernel** module settings page: click  on the top toolbar and select **Kernel** in the drop-down list);
- if you do not have a license key, you can send a request for a trial key. To do so, click the corresponding link on the update system main page. Enter the obtained key in the appropriate field on the update system main page, or on the **Kernel** module settings page.

If the update system main page displays a message reading that a license key is not activated, you have to fill in all the fields of the activation form. After you complete and send the form, the license key will become activated.

If you have already provided a valid license key, and the update system is up-to-date, the update system main page will offer the following actions which are available according to your license terms.

- **Review and download updates** - this action is available if the update server can offer new versions of modules stipulated by terms of your license.



- **Review and download language files** - available if the update server can offer new versions of files containing language-dependent messages.



- **Review and download help section updates** - available if there are new versions of help files at the update server.
- **Register your copy** - displayed if your copy is not registered but the current license permits registration. You must register your product copy immediately after you have received the license key, since it will be difficult to restore the site up-state after the trial period expiration. The product registration is a single step operation - all you have to do is click the link.
- **Download source code** - available if the source codes of your product copy are enciphered but the current license permits obtaining full open source codes. Before you attempt to download them, you must ensure that all modules are updated to the latest version (i.e. no module updates should be available). Source code download is a one-click operation. Please note that download may take some time if your connection is slow, or the update server load is high.
- **Add extra sites** - this action is always available. If you have a coupon for extra sites, you can apply it any time.
- **View installation log** - displays the installation journal containing information about 20 recently installed updates including status and error messages.

Update via proxy server

Since the version 5.0, you can configure the update system to communicate via proxy server on the **Kernel** module settings page (the **Update system** tab): *Settings -> System settings -> Module settings*, select **Kernel** in the drop-down list:

After you fill all the required fields and save settings, the update will be performed via the specified proxy server.

Checking updates for integrity. Installing beta versions of updates

Since the version 5.0, Bitrix Site Manager has an option for stress checking updates for correctness.

The correctness check implies verifying the checksum of updates before copying files from the intermediate folder **/updates/** to the destination folders of the respective modules. If the calculated sample checksums do not match, the system displays a message indicating that the update failed.

To enable the correctness check, activate the corresponding option on the Kernel module settings page (the Update system tab):

The screenshot shows the 'Update system settings' tab with the following fields and options:

- License key: demo
- Name of system update server: www.bitrixsoft.com
- Proxy address for update system: (empty)
- Proxy port for update system: (empty)
- Proxy user name (if auth required): (empty)
- Proxy user password (if auth required): (empty)
- Stress checking the integrity of the updates installation: (highlighted with a red box)
- Download only stable updates:

Buttons at the bottom: Save, Reset, Restore defaults.

Additionally, here you can enable or disable downloading and installing beta versions of updates. If you want only final stable updates to be installed, check the **Download only stable updates** option:

The screenshot shows the 'Update system settings' tab with the following fields and options:

- License key: demo
- Name of system update server: www.bitrixsoft.com
- Proxy address for update system: (empty)
- Proxy port for update system: (empty)
- Proxy user name (if auth required): (empty)
- Proxy user password (if auth required): (empty)
- Stress checking the integrity of the updates installation:
- Download only stable updates: (highlighted with a red box)

Buttons at the bottom: Save, Reset, Restore defaults.

If the option is disabled, the system will offer beta (possibly unstable) versions of updates. The system will warn you every time you are about to download and install updates:



Warning! The beta versions of updates are allowed to be installed on your site.

Updating the system core

If any system core updates are available, the update system main page will display a link to review and download them.

Please note that, if your connection speed is low, or if the update server load is high, updating the system core may take some time.

The system core update stipulates the following steps to be taken.

Step 1. Choosing the desired action

The update system main page is the door to the first step of the update process. If the update server can offer new versions of modules, you will see the corresponding link (**Review and download updates**).

» [Review and download updates](#)

Step 2. Review and download updates

This step displays a list of available updates that can be downloaded from the update server. By default, all new updates are selected for download. You can remove the undesired updates from the list by clicking the **Remove** button beside the update item. To revert the removed update back to the list, click **Add**. Please note that if any bound updates exist (i.e. those depending on each other), you must choose all or none of them. The system will warn you if you miss any update depended on the other one.

This step also displays the total size of updates selected for download. If the size is large, and your server does not allow to download all of them at once, you can install them step-by-step, module by module.

Step 2. Review and download the selected updates

Desktop > Settings > Update

Start page | Update history

Please review the list of updates you have chosen for download. You can dismiss any update you don't want to download. If any dependency exist between some of the modules, you have to select either all of the dependent modules or none.

» **Download** Total: 4 = 372.2 Kb

Module "Kernel" (main)
 Last version: 5.1.6
 Download size: 117.9 Kb

Remove

5.1.6

- Fixed errors in toolbar panel HTML layout for public site section (for Internet Explorer in strict mode).
- Fixed error of working with russian text in component parameters configuration form for Site Edit more.

Attention! Please read the module update annotation carefully: it contains important information about the update and can prevent possible problems.

To proceed with the update, click **Download**. This will launch the update download process. Downloading updates may take some time.

Step 3. Review and install updates

When the selected updates are downloaded from the update server, they can be installed. The list displays downloaded updates that can be installed. By default, all the downloaded updates are selected to be installed. You can remove the undesired updates from the list by clicking the **Remove** button beside the update item. To revert the removed update back to the list, click **Add**. Please note that if any bound updates exist (i.e. those depending on each other), you must choose all of them or none.

Step 3. Review and install the selected updates

Desktop > Settings > Update

Start page | Update history

Updates are downloaded and ready for install.

Please review the list of updates you have chosen to install. You can remove any update you do not want to install. If any dependency exist between some of the updates, you have to select either all of the dependent updates or none.

» **Install** Total: 2 = 179.4 Kb

<p>Module "Kernel" (main) Last version: 5.1.6 Download size: 117.9 Kb</p>	Remove
<p>Module "Information Blocks" (iblock) Last version: 5.1.7 Download size: 61.5 Kb</p>	Remove

Click **Install** to proceed and install the downloaded updates. This may take some time, depending on the size of updates and the system load. It is highly recommended to install updates when the server load is minimum.

Step 4. Installation report

This step displays information about the update installation procedure and error, if any occurred.



Important!

Never refresh this page or click **Back** in your browser!

If the update system reports errors occur, or if the page did not load at all, you must check your site immediately. If you cannot do it yourself, contact the Bitrix technical support service immediately. To boost the problem solution process, you are advised to enclose the file **/bitrix/updates/updater.log** in your message.

You can view the update system log later, in the installation log file.

Updating language files

If any language file updates are available, the update system main page will display a link to review and download them.



Please note that, if your connection speed is low, or if the update server load is high, updating the language files may take some time.

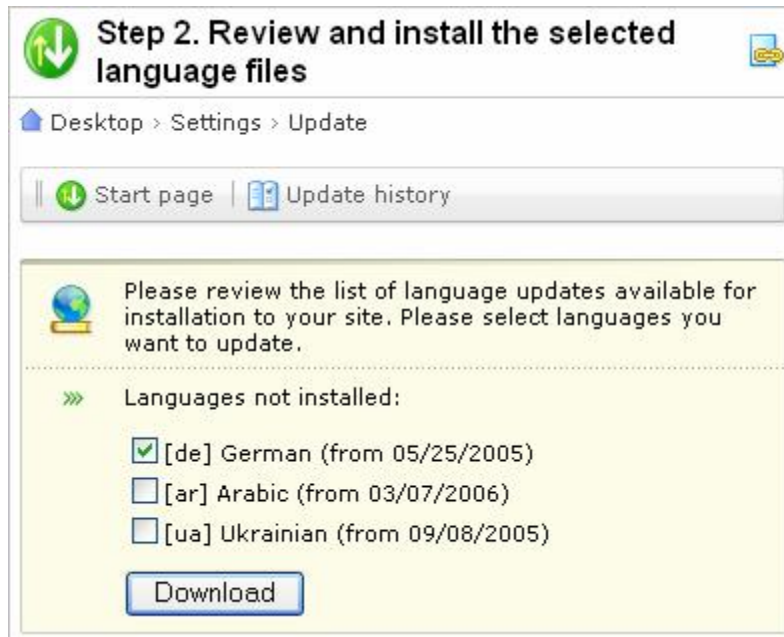
The language file update stipulates the following steps to be taken.

Step1. Choosing the desired action

The update system main page is the door to the first step of the update process. If the update server can offer new versions of language files, you will see the corresponding link (**Review and download language files**).

Step2. Review and download language files

This step displays a list of available language file sets that has been renewed since the last installation and can be downloaded from the update server. Languages currently existing in your system are highlighted.



After you select the desired language file sets and click **Download**, they will be downloaded and installed. Downloading updates may take some time.

Step 3. Installation report

This step displays information about the update installation procedure and errors, if any occurred.



Important!

Never refresh this page or click **Back** in your browser!

You can view the update system log later, in the installation log file.

Updating the help section

If any help section updates are available, the update system main page will display a link to review and download them.

Please note that, if your connection speed is low, or if the update server load is high, updating the help section may take some time.

The help section update stipulates the following steps to be taken.

Step 1. Choosing the desired action

The update system main page is the door to the first step of the update process. If the update server can offer new versions of the help section, you will see the corresponding link.

Step 2. Review and download language files

This step displays a list of new help section updates that can be downloaded from the update server. Help sections in languages currently existing in your system are highlighted. After you select the desired help section and click **Download**, it will be downloaded and installed. Downloading updates may take some time.

Step 3. Installation report

This step displays information about the update installation procedure and errors, if any occurred.

Important!

Never refresh this page or click **Back** in your browser!

You can view the update system log later, in the installation log file.

Adding more sites

The **Bitrix Site Manager** features creation of unlimited number of sites with the use of a single copy (license) of the product, keeping a single installation of the system kernel and database on the server. Maximum number of sites is limited only by the license terms. If you want to create more sites over the current limit, you have to purchase the appropriate license.

Buying licenses for extra sites implies that you are given a respective number of coupons (one coupon for one license). Extra licenses and coupons match the product edition. For example, to create one more site with the **Professional MySQL** edition, you have to purchase a license (coupon) for an extra site for the **Professional MySQL** edition.

After you have obtained a coupon, click the **Activate coupon** link on the update system main page. In the new form, enter the coupon code and click **Activate**.

If the coupon is valid (i.e. it matches the current product edition and was not activated before), the maximum number of sites for this product copy will be increased by 1.

Configuring IIS for use with the system

Installing PHP with IIS 6.0

The detailed instructions on how to install PHP as an ISAPI filter on Microsoft Windows with IIS are given in the training course **Installing and configuring Bitrix Site Manager** [here](#).

Before you proceed with installation, you have to ensure that your server supports PHP.

Creating back-ups

Using the back-up and restoration built-in tools

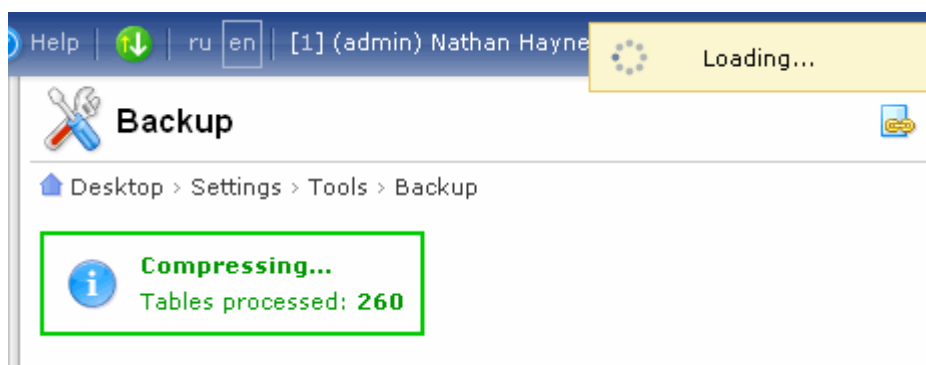
To transfer a site from a remote server to a local machine, you can use the built-in backup creation tool, and the server-side restoration tool (**restore.php**).

Do the following to create a site backup copy.

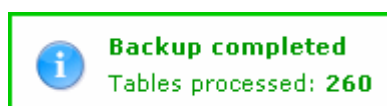
- § Open the back-up creation form:

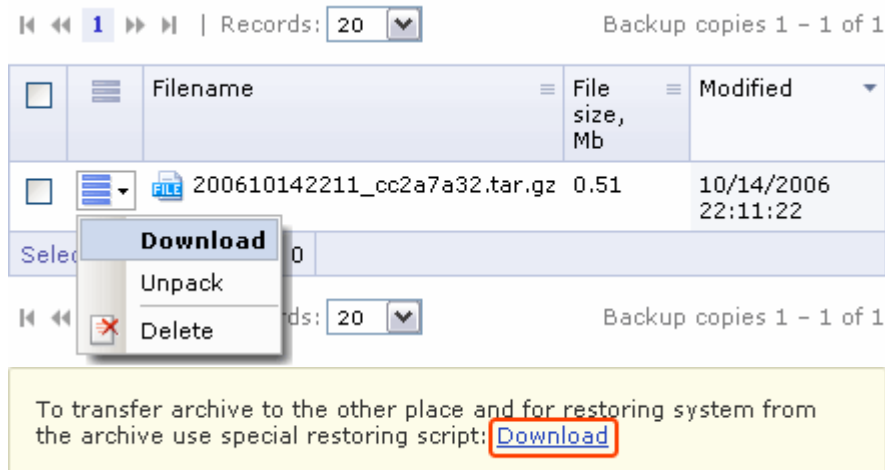
Control Panel -> Settings -> Tools -> Backup.

- § Set the following parameters to fully copy the site from a remote server.
- **Back up gradually:** on
 - **Step:** this parameter must conform the server parameter *max_execution_time* (usually 30)
 - **Back up public files:** on
 - **Back up kernel files:** on
 - **Do not include files which size exceeds:** 1024 (this will exclude files with size over 1 Mb)
 - **Back up database:** on
- § Click the **Back up** button



- § After the back-up copy is created, download the file and the **restore.php** script:





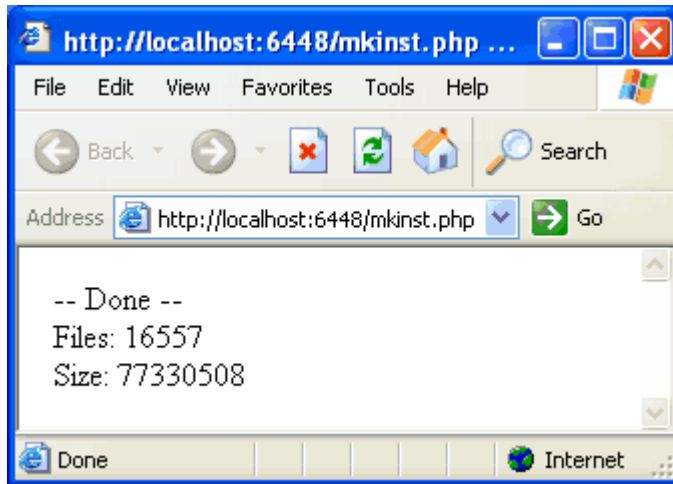
- § Copy these files to the root directory of a web sever on your local machine. If you have the trial version installed, place the files in **x:\Project Files\Bitrix\www** (delete all files from this folder beforehand).
- § Type <http://localhost:6448/restore.php> in your browser and hit Enter.
- § In the new form, select the archive file and specify the unpacking time slice (according to the PHP settings, usually 30). Click **Extract**.
- § After the files are extracted, you will be prompted to provide the database connection settings (if you have chosen to back-up the database).
- § Click **Restore** and wait until the script finishes. (Sometimes, you will need to adjust the database connection parameters in **/bitrix/php_interface/dbconn.php**).
- § After the restoration is done, be sure to delete the following files to prevent site corruption:
 - **/restore.php**
 - /back-up file (*.tar.gz)
 - /bitrix/backup/database dump (*.sql)

Transferring a site from local machine to remote server

This section contains a step-by-step instructions on transferring a site from the local computer to a remote server. The transfer procedure is performed using special scripts provided by the Bitrix company, which simplifies and facilitates the process.

Perform the following actions to transfer your site to the remote server.

- § Ensure the remote hosting service conforms the [minimum system requirements](#).
- § Ensure the system core is not encoded. If the kernel is encoded, the remote server **must** have Zend Optimizer version 2.6.x or higher installed and operable.
- § Ensure that the *user* on which the Apache (PHP) runs is given a permission of 0777 (full access) to all files in the site root.
- § Copy all scripts from the local machine to the remote server via the FTP. You can boost this process by performing the following actions.
 - Download the script **mkinst.php** from <http://www.bitrix.ru/examples/mkinst.php> to the root folder of your **local** site (i.e. on the local machine).
 - Move all files which size exceeds the hosting provider's PHP limit (usually 8 Mb) from the local site folder to some other storage (folder). This is necessary because some files may exceed the hosting provider's PHP limit (e.g. database dump file). The standard distribution package of the Bitrix Site Manager does not contain such files.
 - Open the following page in your browser: http://<local_site>/mkinst.php, replacing **<local_site>** with the local site address (e.g. *localhost*).



After that, the root folder of your local site will contain an archive file **install.gz**. The browser will display the archive information (total count of files and the size).

- Copy the file **install.gz** to the root folder of your site on the remote server via the FTP.
- Download script file **install.php** from <http://www.bitrix.ru/examples/install.php>.
- Copy the file **install.php** to the root folder of your site on the remote server via the FTP.
- Open the page http://<your_remote_site>/install.php in your browser, replacing **<your_remote_site>** with the address of your remote file. If the PHP has permissions required to create files (0777), the site will be unpacked.
- **Remember to delete** scripts **mkinst.php** and **install.php** from the remote server. Besides, remember to delete or move (one level up) the file **install.gz**.

§ The next step is to copy the database to the remote server.

- Create the database dump (copy in the form of SQL instructions). One of the ways to create a dump is running the standard MySQL tool:

```
mysqldump.exe --add-drop-table -p <local_database_name> >
bitrix.dmp
```

You can obtain more information on the tool parameters by running

```
mysqldump.exe --?
```

- After the file **bitrix.dmp** is created, open it for editing in any text editor. Delete the following line from the file:

```
use <local_database_name> ,
```

This command is usually located at the beginning of the file. Copy the file to the remote server via the FTP.

- Next, establish a connection to the remote MySQL database. You can do this by using either the **SSH (SSH2)** protocol, or any other protocol allowed by your hosting service provider for remote access. You can also use the standard tool **mysql.exe** by simply running it on your local machine. You can take the advantage of using the **mysql.exe** tool if only the hosting provider allows it.

Connecting via the **SSH**:

```
mysql -u <user> -h <server_IP> -P 3306 -p <remote_DB_name>
Enter password: <password>
```

Connecting via the **mysql.exe** tool:

```
mysql.exe -u <user> -h <server_IP> -P 3306 -p <remote_DB_name>
Enter password: <password>
```

- After you have established connection to the database, you have to select the active database to which you will copy the dump. You can do this by issuing a command:

```
use <remote_DB_name>
```

- The next command uploads the dump to the remote server:

```
\. <full_or_short_file_name>
```

- § After you have successfully transferred the database and scripts to the remote server, you have to open the **remote** file **/bitrix/php_interface/dbconn.php** in any text editor and change the connection parameters to the **remote database**.
- § Delete or move the database dump remote file **bitrix.dmp**.

Creating and unpacking tar.gz archives

Creating an archive

Method 1

```
tar -zvcf <dirname>.tar.gz <dirname>/
```

Method 2

```
tar -c dirname | gzip -c - > dirname.tar.gz
```

Unpacking an archive

Method 1

```
tar zxvf file_name.tar.gz
```

Method 2

```
gunzip file_name.tar.gz
tar xf file_name
```

Configuring the server

Requisite access rights at server

You (or your hosting service) can configure access permissions on the remote server as desired, but the result must be the only one: scripts should be able to access files for both reading and writing, which means that a primary “user” under which the Apache server runs, must be able to access files with these modes. At the same time, if a shared hosting is the case, other users must not be able to read or write in your files via their scripts. Your “user” should be able to rewrite files via the FTP as well as modify uploaded files from within scripts.

The problem is that each hosting provider has their own security policy and preferences: while some limit access to other's files even with a 777 permissions, some run the Apache web-server under a single user for each virtual host.

Some hosting providers launch the server process under user *nobody:group* by default. The files that a hosting client stores on a server, should be accessible by the Apache. It means that they has the attribute *read for all* set, or a user (file owner) and server must belong to the same group. In the latter case, files must be accessible by the group members for reading (FTP servers assign this kind of permission).

This approach hits hard the security because if all users belong to the same group, they can read each other's files. Say, a user opened a page in the browser which runs a CGI script. As the script in fact is executed by the Apache server which runs under *nobody*, the script will run with permissions assigned to this user.

At the same time, a script can write files to a hosting server directory if only a directory has a *write* attribute set for a user (or a user group). It is obvious that this approach allows each user modify other users' files, which is impermissible.

The Bitrix Site Manager remains fully functional with any access permission that you have specified at the installation time.

To enable the Bitrix Site Manager work correctly with your CHMOD, you have to set the following constants in **/bitrix/php_interface/dbconn.php**:

```
define("BX_FILE_PERMISSIONS", 0777);
define("BX_DIR_PERMISSIONS", 0777);
```

Substitute 0777 with values allowed by your hosting for files and folders.

The following values are common to most hostings:

```
0644 - for files,
0755 - for folders.
```

You can set the access permission level manually by using CHMOD in console.

The following command sets the access permission level for both files and folders:

```
chmod -R 644 *
```

You can use the following command to set rights for folders only:

```
find . -type d -exec chmod 0777 {} ';' 
```

Some FTP clients allows to recursively set rights for files and folders. For example: FlashFXP version 3.xx. FlashFXP allows separate rights for files and folders.

You should consider the following settings:

1. **Separately set File and Folder attributes**

and

7. **Apply changes to all subfolders and files.**

Individual access permission levels are applied to these settings:

Folder permissions

File permissions

Note! The **Site Explorer** allows to view the system-level attributes of files and folders.

<input type="checkbox"/>		Name	Size	Modified	Type	Access permissions	Bitrix access permissions
<input type="checkbox"/>		Folder About Us		10/06/2006 15:03:50	Folder	drwxrwxrwx	Full access
<input type="checkbox"/>		Folder Blogs		10/06/2006 15:03:50	Folder	drwxrwxrwx	Full access
<input type="checkbox"/>		Folder Catalog		10/06/2006 15:03:50	Folder	drwxrwxrwx	Full access
<input type="checkbox"/>		Folder e-Learning		10/06/2006 15:03:50	Folder	drwxrwxrwx	Full access
<input type="checkbox"/>		Folder Partners		10/06/2006 15:03:50	Folder	drwxrwxrwx	Full access
<input type="checkbox"/>		Folder Personal section		10/06/2006 15:03:50	Folder	drwxrwxrwx	Full access
<input type="checkbox"/>		Folder Search		10/06/2006 15:03:50	Folder	drwxrwxrwx	Full access
<input type="checkbox"/>		Folder Support		10/06/2006 15:03:50	Folder	drwxrwxrwx	Full access
<input type="checkbox"/>		Menu type «top»	481	09/19/2006 10:27:28	PHP script	-rw-rw-rw-	Full access
<input type="checkbox"/>		Authorization	839	09/19/2006 10:27:28	PHP script	-rw-rw-rw-	Full access
<input type="checkbox"/>		Bitrix Site Manager 5.xx Trial Version	2785	09/19/2006 10:27:30	PHP script	-rw-rw-rw-	Full access
Selected: 11		Checked: 0					

The **Site Explorer** displays the file and folder attributes as well as the owner and user group information (for xNIX) in the **Access permissions** column.

The web server configuration file **.htaccess**

This section describes how to configure an Apache web server using the file **.htaccess**.

In most cases, a user cannot access the server configuration file (**httpd.conf**) because its scope affects all users. The file **.htaccess** enables you to make changes in configuration which will only affect your site.

The server configuration file **httpd.conf** must have a directive allowing to use **.htaccess** files. Otherwise, the system will ignore these files.

The **.htaccess** file contains directives which scope is constrained to the directory in which it resides as well as all subdirectories. The **.htaccess** file saved in the server root directory affects all the server except directories having their own **.htaccess** file. The **.htaccess** directives are applied in the same order as they are specified. Hence, directives of the **.htaccess** file in the given directory have higher priority than those of the parent directories.

You do not need to restart server after you have modified the **.htaccess** file. This file is checked each time the server is queried, that's why changes take into effect right away. As this is the system file, it cannot be accessed by users from their browser.

Generally, the **.htaccess** syntax is similar to the main configuration file. However, the file power may be limited by the **AllowOverride** directive. It defines which types of the **.htaccess** directives can override those of the preceding directives.

The shipped **.htaccess** file has the following default directives.

```
Options -Indexes
ErrorDocument 404 /404.php

#php_flag session.use_trans_sid off
#php_value display_errors 1
#php_value allow_url_fopen 0

<IfModule mod_mime.c>
    AddType application/x-httpd-php .ico
</IfModule>

<IfModule mod_dir.c>
    DirectoryIndex index.php index.html
</IfModule>

<IfModule mod_expires.c>
    ExpiresActive on
    ExpiresByType image/jpeg "access plus 3 day"
    ExpiresByType image/gif "access plus 3 day"
</IfModule>

php_value error_reporting 7
php_value error_reporting 0
```

Note!

To activate the commented PHP directives, you have to remove the comment operator (#) at the beginning of each line. If your Apache server does not allow PHP flags, these directives will incur an internal server error (500). If this is the case, comment these directives back.

Other uncommented PHP directives are enclosed in the verification condition statements ensuring the required Apache modules are present in the system. These directives will never cause the server errors.

1. The PHP directive **php_flag session.use_trans_sid off** disables the session ID substitution in the site URLs.
2. If the PHP flag **php_value display_errors** is set to **1**, the error messages are enabled and displayed. The directive **php_value error_reporting** defines which level of PHP interpreter errors is displayed.
3. The directive **ExpiresActive on** enables image caching which boosts their download speed on the repeated queries.

ExpiresByType image/jpeg "access plus 3 day" and **ExpiresByType image/gif "access plus 3 day"** define the cached image format and the caching period. By default, *.jpeg* and *.gif* files are cached for 3 days.

Note!

The **.htaccess** file must be saved in the UNIX format (**Save as UNIX text** option in the **FAR** manager editor (accessed via pressing Shift+F2 in the FAR editor)).

Possible database failures

Database connections errors

When a database connection error occurs, the following error message is displayed:

Error connecting to database.
Please try again.

The visual aspect of the message is defined by the contents of the file `bitrix/php_interface/dbconn_error.php`:

```

<br>
<table cellpadding="1" cellspacing="0" width="35%" bgcolor="#9C9A9C">
  <tr>
    <td>
      <table cellpadding="5" cellspacing="0" width="100%">
        <tr>
          <td bgcolor="#FFFFFF" align="center">
            <FONT face="Verdana, Arial, Helvetica, sans-serif" size="-1">
              <font color="#FF0000"><b><?echo "Error connecting to
database."?></b></font><br>
              Please try again.</font></td>
            </tr>
          </table>
        </td>
      </tr>
    </table>
  <br><br><br>

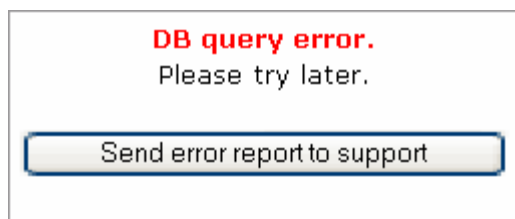
```

To resolve the problem, do the following:

1. check the database connection parameters (in **/bitrix/php_interface/dbconn.php**);
2. check whether the database is accessible.

Database query errors

When a database query error occurs, the following error message is displayed:



The visual aspect of the message is defined by the contents of the file **/bitrix/php_interface/dbquery_error.php**.

Situations may happen when a site denies to reply and returns an empty page to visitors. In this case, open the file **bitrix/php_interface/dbconn.php** containing the database connection parameters, and set the parameter: **\$DBDebug = true;**

```

<?
define("DBPersistent", true);
$DBType = "mysql";
$DBHost = "localhost:31006";
$DBLogin = "root";
$DBPassword = "";
$DBName = "bsm_demo";
$DBDebug = true;
$DBDebugToFile = false;
set_time_limit(60);
define("BX_FILE_PERMISSIONS", 0777);
define("BX_DIR_PERMISSIONS", 0777);
@ini_set("memory_limit", "64M");
?>

```

This will cause the error message to be printed. The message usually contains names of damaged tables.

```
UG1.GROUP_ID is not null) or (B.SHOW_USER_GROUP <> 'Y' and
UG1.GROUP_ID is null) ORDER BY B.TYPE_SID desc, C.ID desc
[File '\bsm_demo\b_adv_banner.MYD' not found (Errcode: 2)]
```



Run `perror.exe` (can be found in `/mysqlbin`) with the error code to get the error description:

```
C:\...les\Bitrix_NEW_ATTEMPT\mysql\bin>perror.exe 2
Error code 2: No such file or directory
```

Note!

The error 28 displays the following description:

```
C:\...les\Bitrix_NEW_ATTEMPT\mysql\bin>perror.exe 28
Error code 28: No space left on device
```

This means that the disk on which the database is installed is out of free space.

If the database damage is the case, you are recommended to use the built-in database check and repair tool. This will allow you to restore the site functionality in the shortest possible time.

Note!

The standard database check and repair tool only works with the **MyISAM** tables of **MySQL**.

1. You can access the check and repair tool from the Control Panel:

Settings -> Tools -> Database Check

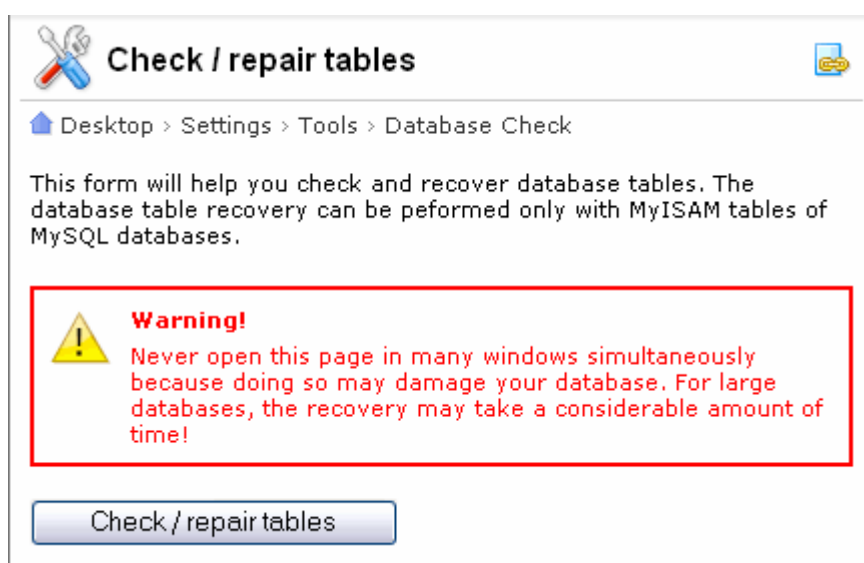


Table name	Rows count	Table size (bytes)	Check result	Repair result
b_adv_banner	17	4 528	[status] OK	
b_adv_banner_2_country	0	0	[status] OK	
b_adv_banner_2_day	252	5 040	[status] OK	
b_adv_banner_2_group	0	0	[status] OK	
b_adv_banner_2_page	7	180	[status] OK	
b_adv_banner_2_site	17	119	[status] OK	
b_adv_banner_2_stat_adv	0	0	[status] OK	
b_adv_banner_2_weekday	2856	61 812	[status] OK	
b_adv_contract	1	108	[status] OK	
b_adv_contract_2_page	0	0	[status] OK	

If the statistics tables are damaged and you cannot open the Control Panel, you can disable gathering statistics by supplying the parameter `?no_keep_statistic_LICENSE-KEY=Y` on the URL (substitute **LICENSE-KEY** with your license key).

- You can use the database check script without having to open the Control Panel. To do so, supply the database access login and password on the URL. For example:
http://www.mysite.ru/bitrix/admin/repair_db.php?login=dblogin&password=dbpassword
 By default, the database access parameters are stored in `/bitrix/php_interface/dbconn.php`

Possible server failures

500 - Internal Server Error

Since there are a lot of reasons which may cause server errors, their diagnostics is very complex and tedious.

If a server error occurs, the first thing to do is view the **error.log** file. This file may contain a line with the error description.

- The typical situation when a server error may occur is exceeding the allowed server permissions.

For example: the system creates and saves a page with the 0777 permissions, while the maximum permission allowed by the server is 0644. The server will return the 500 error upon attempt to access the page.

To eliminate this error that the server allows to access files which CHMOD attributes are 0777. For Bitrix Site Manager 4, add the following lines to the **dbconn.php** file:

```
define("BX_FILE_PERMISSIONS", 0777);
define("BX_DIR_PERMISSIONS", 0777);
```

Instead of 0777, you can use values allowed by the server for files and folders, respectively. The following values are usually sufficient:

```
define("BX_FILE_PERMISSIONS", 0644);
define("BX_DIR_PERMISSIONS", 0755);
```

- Another prevailing reason is invalid server configuration or using forbidden directives (for example, in **.htaccess**). In this case, remove or comment the failure line in the file.
- Note!** If PHP runs as CGI, the 500 error may be caused by a PHP fatal error. In this case, you are recommended to check the program code and diagnose the error.
- Internal server errors may come about when a CGI script runs on the Apache server and the execution time exceeds the maximum allowed period specified in the server configuration.