

Setup for Server

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System Configuration recommendations for Wrench EPC 2.0

Before installing Wrench product suite, be sure that the system you are working with meets or exceeds the minimum hardware and software requirements.

Network requirements

The following table lists the minimum network requirements for client/server connections when Wrench EPC is deployed across intranet.

Parameter	Minimum requirements
Bandwidth	100 MB per second
Latency	Less than 5 milliseconds

Domain requirements

Wrench EPC system is capable of operating over an intranet network as well as across Internet. If the system is deployed across Internet, it is important to have internet connectivity from the server. Higher the bandwidth better will be the performance. For implementing Wrench EPC over an intranet network, we recommend that computer running Wrench EPC to have access to computers in the same Active Directory service domain running Active Directory configured in native mode. Though this is not compulsory, this would help resolve any security related problems easily.

Client requirements

The following tables list the minimum hardware and software requirements for running Wrench EPC client from a workstation.

Hardware requirements

Hardware	Minimum requirements
Computer	Intel Pentium IV or higher processor; minimum 1.1 GHz or higher recommended. Compatible Processors with matching speed of other makes may also be used.
Memory (RAM)	512 MB or more recommended
Hard disk space	200 MB or more recommended
Monitor	VGA or higher resolution 1,024x768
Pointing device	Microsoft Mouse or compatible pointing device
CD-ROM drive	Required only for CD installation

Actual requirements depend on your system configuration and the applications and features you choose to install.

Operating System Requirements

Operating System
Microsoft Windows XP Professional, Service Pack 2 (SP2)
Microsoft Windows XP Tablet PC Edition, Service Pack 2 (SP2)
Microsoft Windows 2000 Professional with Service Pack 4 or later
Software
Microsoft .NET Framework 2.0 or higher
Internet Explorer 6.0 or higher

Wrench applications are not supported on the 64-bit versions of the operating systems listed.

Wrench server requirements

The following tables list the minimum hardware and software requirements for running wrench server

Hardware Requirements

Hardware	Minimum requirements
Computer	Intel Pentium IV or higher processor; minimum 2.6 GHz or higher recommended. More number of processors can be considered depending on the load and response factors.
Memory (RAM)	1 GB or more recommended
Hard disk space	80 GB or more recommended. This estimate depends on the number of files kept online.
Monitor	VGA or higher resolution 1,024x768
Pointing device	Microsoft Mouse or compatible pointing device
CD-ROM drive	Required for CD installation

Actual requirements depend on your system configuration and the applications and features you choose to install.

Operating System and Software Requirements

Operating system
Microsoft Windows Server 2003 R2, Standard Edition
Windows Server 2003 R2, Enterprise Edition
Windows Server 2003 with Service Pack SP1 (SP1), Standard Edition
Windows Server 2003 with Service Pack SP1 (SP1), Enterprise Edition
Windows 2000 Advanced Server with Service Pack SP4 (SP4).
Software
Microsoft .NET Framework 2.0 or higher
Microsoft Internet Information Server (IIS) 5.0 or higher
Front Page 2000 Server extensions
Microsoft SQL Server 2000 or higher with sufficient client access licenses. Approximately five client access license would be sufficient to serve up to 15 wrench licenses.
OleDb Database connection drivers (Setup included in the Wrench EPC setup CD)

Wrench Server is not supported on the 64-bit versions of the operating systems listed.

Authentication requirements

Since Wrench server is a web service, it is required to have sufficient security privileges for the IUSER user account.

Server Setup

Installing

Read the topic "[Auxiliary Server](#)" before you install the main server, as use of auxiliary server has a huge impact in the deployment of server system. Installing the server is a one-touch operation. Place the setup CD in the CD drive and run the "Setup.EXE" found in the "Server" folder. The setup wizard will guide you through the installation. Inputs sought during the setup are the following.

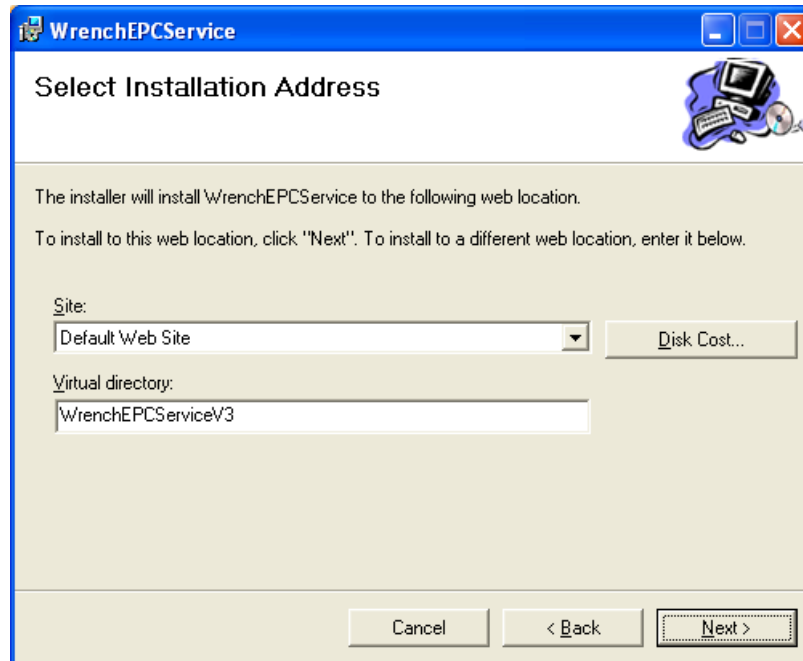


Figure 1 - Wrench EPC Server Installation

1. Root Folder Name (Site): Name of the root web applications folder, under which the new Wrench EPC virtual folder is to be created. This is best left to the default, unless if you are sure of a new setting.
2. Wrench EPC folder Name (Virtual Directory): The name of the Wrench EPC virtual folder, in which Wrench EPC server is to be installed. This is also best left to the default. This name will be required for the clients to connect to server.

Configuring

Once the server setup is completed successfully, you are ready to configure the server. Only after the configuration, server is ready for use. Run "Server Configuration" from the *Programs menu* → *Wrench EPC Utilities* to start configuring the server.

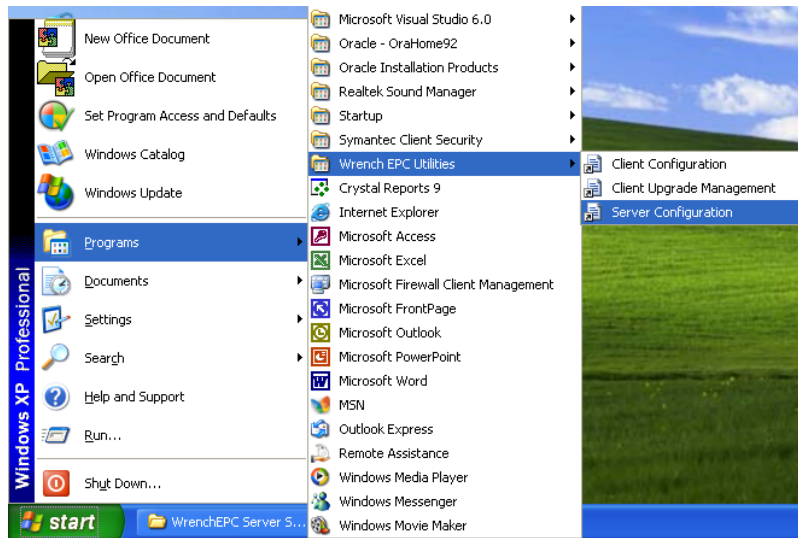


Figure 2 - Accessing Server Configuration Manager

Database Setup

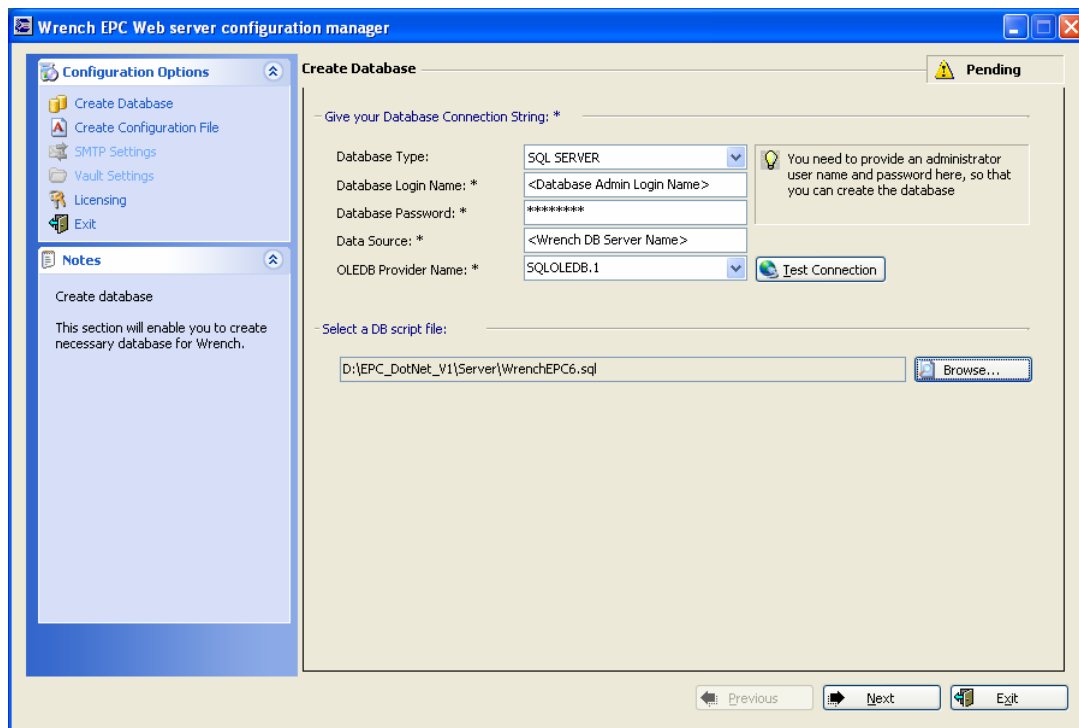


Figure 3 - Wrench EPC Server Configuration (Creating Database)

First activity in configuration is to setup the database. The pre-requisite is connectivity to Microsoft SQL Server 2000 or higher that is to be used for Wrench EPC data storage. Please refer to the screen image shown in figure 3. Following are the details required for setting up the database.

1. Database Type: Wrench EPC server currently can work only with Microsoft SQL server. ORACLE support is expected to be available in future versions.
2. Database Login Name: Specify an SQL server user account name that has administrative privileges.
3. Database Password: Password for the specified login name.
4. Data Source: This is usually the name of the computer where the SQL Server is installed. If the SQL server is not installed as the default instance, the instance name may need to be appended to the computer name for the exact "data source". Please refer to the SQL server documentation for details.
5. OLEDB Provider Name: Name of the OLEDB service provider that is to be used to connecting to the database. Default is "SQLOLEDB.1" and the default will be sufficient in most scenarios. The ".1" at the end of the provider name is the version number. You may have to change this if a different version is used.
6. Select a DB Script File: An SQL script is supplied in the setup CD for creating the database automatically. This file path will be displayed by default, and in normal cases you do not have to change this location. If nothing is displayed by default, use the "browse" button and select the "WrenchEPC6.SQL" file from the setup CD.

After furnishing the above details, click on "Test Connection" to make sure everything is appropriate. If the test connection is not succeeded, change connection parameters and try until successful. Settings that are possible to go wrong are database login name, password and the data source. Rarely the version number of OLEDB service provider also may need attention.

Click on "Next" button to proceed. This action will create the wrench database and initialize it so that the server can use it.

Server Settings

Wrench EPC Web server configuration manager

Configuration Options

- Create Database
- Create Configuration File
- SMTP Settings
- Vault Settings
- Licensing
- Exit

Notes

Create configuration file

This section will enable you to create a configuration file which contains the necessary details for the wrench server to interact with the database and to the file vault.

Create Configuration file Pending

- Give your Database Connection String: *

Database Type:

Database Login Name: *

Database Password: *

Data Source: *

Initial Catalog: *

OleDb Provider Name: *

You wouldn't require the administrator user name and password here, you can give the credentials of a user who can connect to the database and execute the DML commands.

- Give auxiliary server status and path:

File Transport Mode: *

Auxiliary Server URL:

Proxy URL:

Proxy User Name:

Proxy Password:

- Give scheduler details:

Frequency of scheduler in Hours: *

Time out - Normal User (Mins): *

Time out - VIP User (Mins): *

Figure 4 - Wrench EPC Server Configuration (Server Settings)

Next operation is to create a number of configuration settings. Please refer to the screen image shown in figure 4. Following are the details required for configuration.

A. Database settings

1. Database Type: Same as mentioned in "Server Setup".
2. Database Login Name: Specify an SQL server user account name. Unlike in "Server Setup", this user account need not have administrative privileges.
3. Database Password: Password for the specified login name.
4. Data Source: Same as mentioned in "Server Setup".
5. OleDb Provider Name: Same as mentioned in "Server Setup".
6. Initial Catalog: This is the name of Wrench EPC database. Use the default and do not change it.

B. Auxiliary Server

Please refer to the “Auxiliary Server” topic for details. Following are the details required for configuring connection parameters to the auxiliary server.

1. File Transport Mode: Wrench EPC is capable of storing files on the local server or on a remote server (called “Auxiliary server”). Please see the topic “[Auxiliary Server](#)” for details. If the setting here is “Don’t use Auxiliary Server”, Wrench EPC system will keep all files on the local server and the rest of the settings mentioned below are not applicable. If this is set to “Use Auxiliary Server”, the system will permit files to be stored on a remote server.
2. Auxiliary server URL: The URL to the file “WrenchEPCAuxiliaryServer.asmx” on the auxiliary server. Please see the topic “Auxiliary Server” for details.
3. Proxy URL: URL or address of the proxy server, if there is a proxy server between the main Wrench EPC server and the Auxiliary server.
4. Proxy User Name: Login name on the proxy server. The main server will use this login name for connecting to the proxy.
5. Proxy Password: Password for the specified login name.

C. Scheduler

Scheduler is a server-side component of Wrench EPC system. This component is responsible for executing activities that are to be planned on a schedule. For example, when a schedule in the WBS is delayed (slipped), the scheduler can send an e-mail to the project manager. Scheduler starts as a windows service and executes scheduled activities on specified intervals. Following are the configuration options for scheduler.

1. Frequency of scheduler in hours: The interval at which the scheduler needs to start automatically for executing the scheduled tasks.
2. Timeout – Normal Users (Min.): Wrench has a facility to disconnect idling users (logged on but doing nothing) so that licenses are available to subsequent users. You may mention the duration in minutes. If a user is not doing any action for the specified duration, the user will be automatically disconnected so that the license is available for use.
3. Timeout – VIP Users (Min.): In any organization, it is important for a few critical people such as top managers to have extended access time even if idling. Such users are called “VIP Users”. This category of users can have a different (larger) idle time.

SMTP Settings

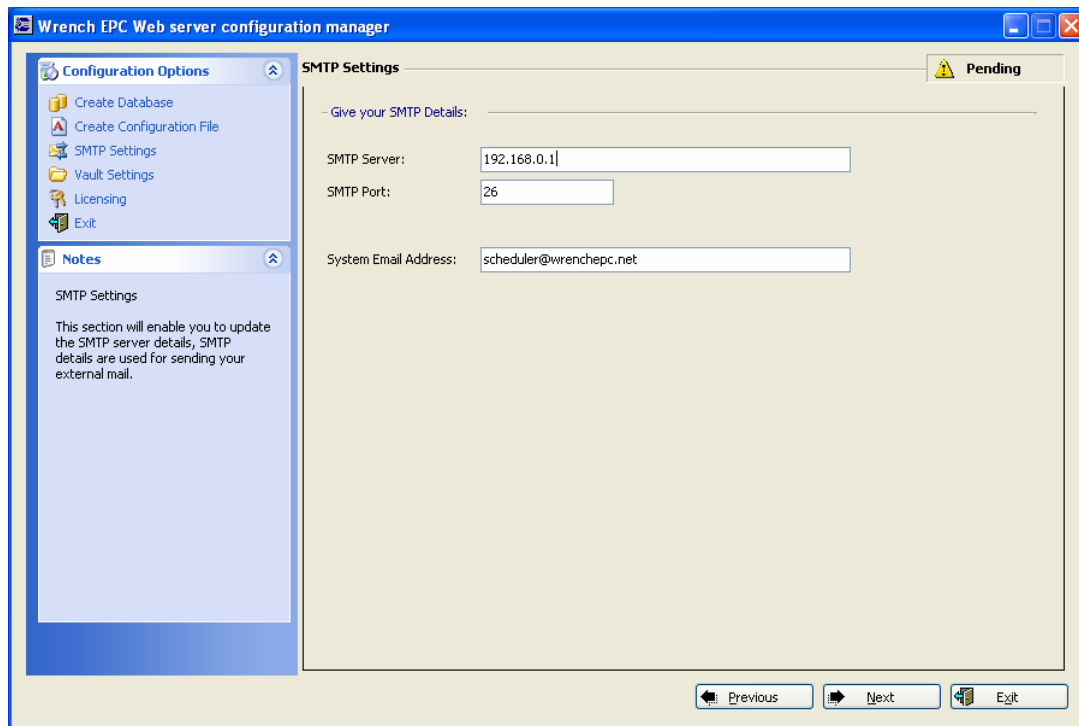


Figure 5 - Wrench EPC Server Configuration (SMTP Settings)

Wrench system is capable of delivering e-mail messages to external mailing system, to update users on various system states such as pending activities, status of tasks etc. What is configured here is the SMTP server for sending out such mails to external e-mail systems. Following are the configuration details.

1. SMTP Server: Address of the SMTP Server
2. SMTP Port: The port number of the specified SMTP Server. Usually the SMTP port number will be 25.
3. System E-mail Address: When Wrench EPC system needs to send e-mails, it needs a "From" address. What is mentioned here is a valid e-mail address, authorized on the specified SMTP server.

Vault Settings

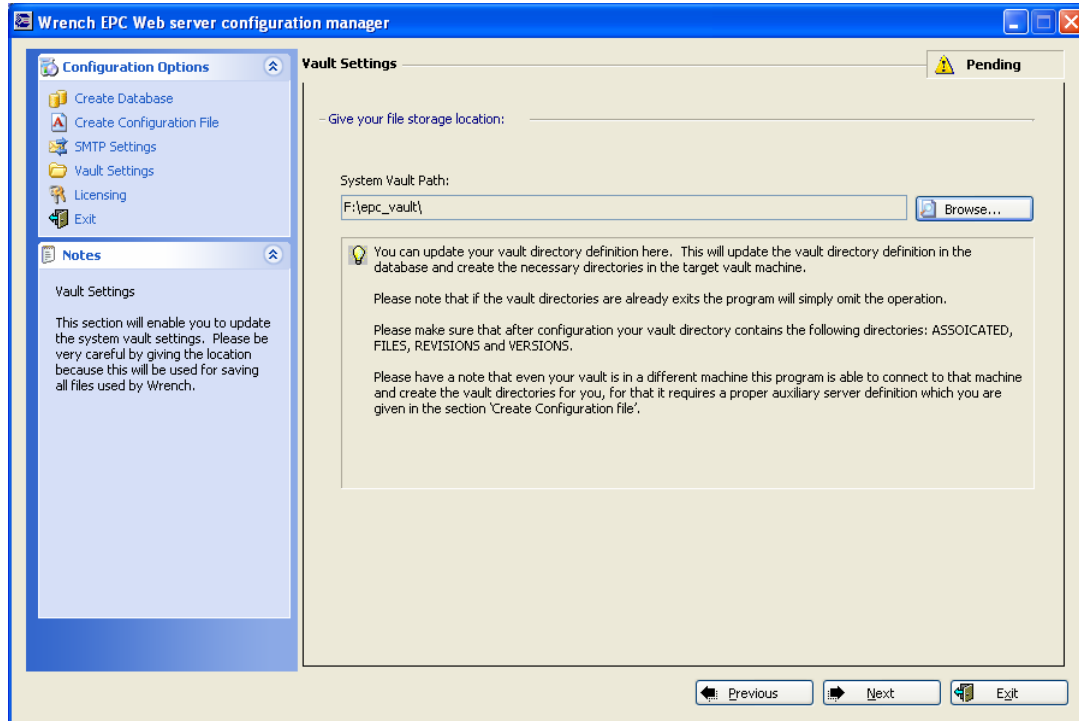


Figure 6 - Wrench EPC Server Configuration (Vault Settings)

As mentioned earlier, "Vault" is the folder (path) where files handled by Wrench EPC system are stored. If an Auxiliary server is used, this folder will be local to the auxiliary server. If no auxiliary server is used, this folder will be local to the main server. Click on the "Browse" button to select a folder. It is important to have the disk on which this folder exists to have sufficient storage space.

Licensing

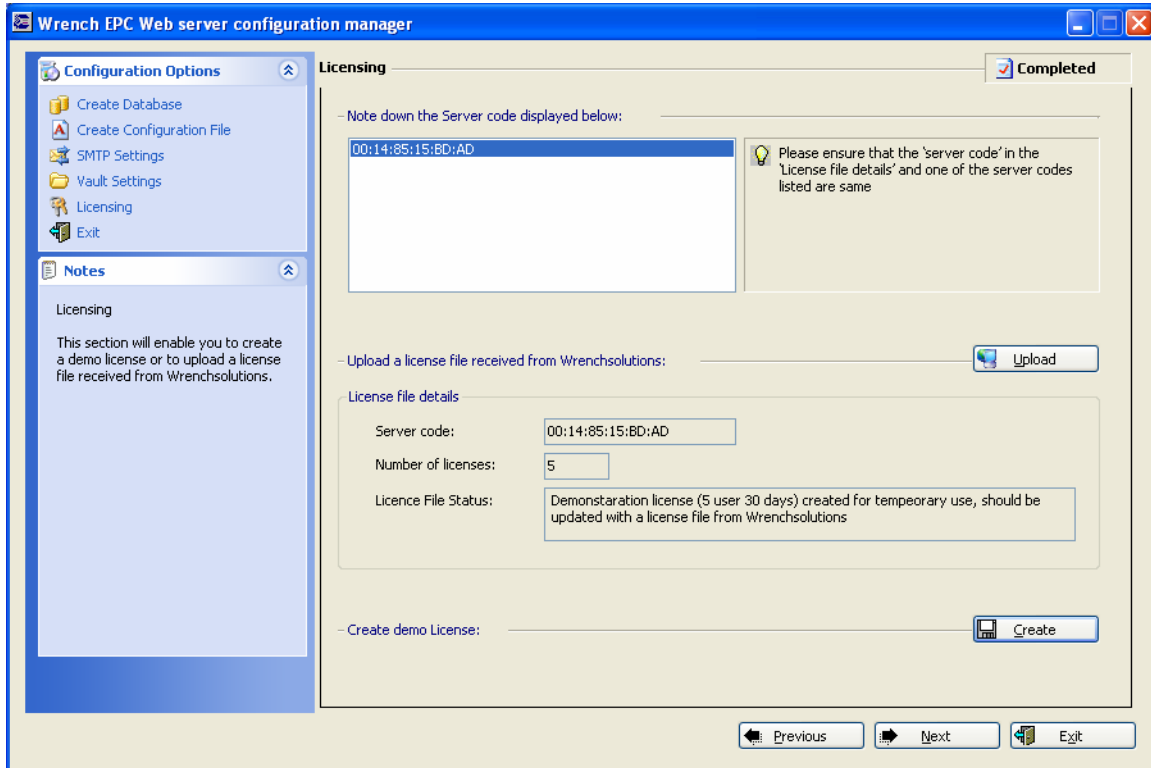


Figure 7 - Wrench EPC Server Configuration (Licensing)

Client Access Licenses are issued based on a server code. The server code will be automatically computed by the configuration program and displayed as seen in figure 7. You need to send this server code along with the number of client access licenses required, to “Wrench Solutions (P) LTD” for obtaining a license key. Once a license key is obtained, click on the “Upload” button to select the license file supplied by Wrench Solutions (P) LTD. On selecting a proper license file, system will display the total number of licenses available. While awaiting a license key from Wrench Solutions (P) LTD, you may continue to use the Wrench system using a demo license. Click on “Create” button (or click on “Next” button) to avail five user client access license for a period of 30 days. Demo license can be converted to regular license by obtaining a license key as mentioned above.

Click on the next button to complete the installation. On successful completion you will get the following screen.

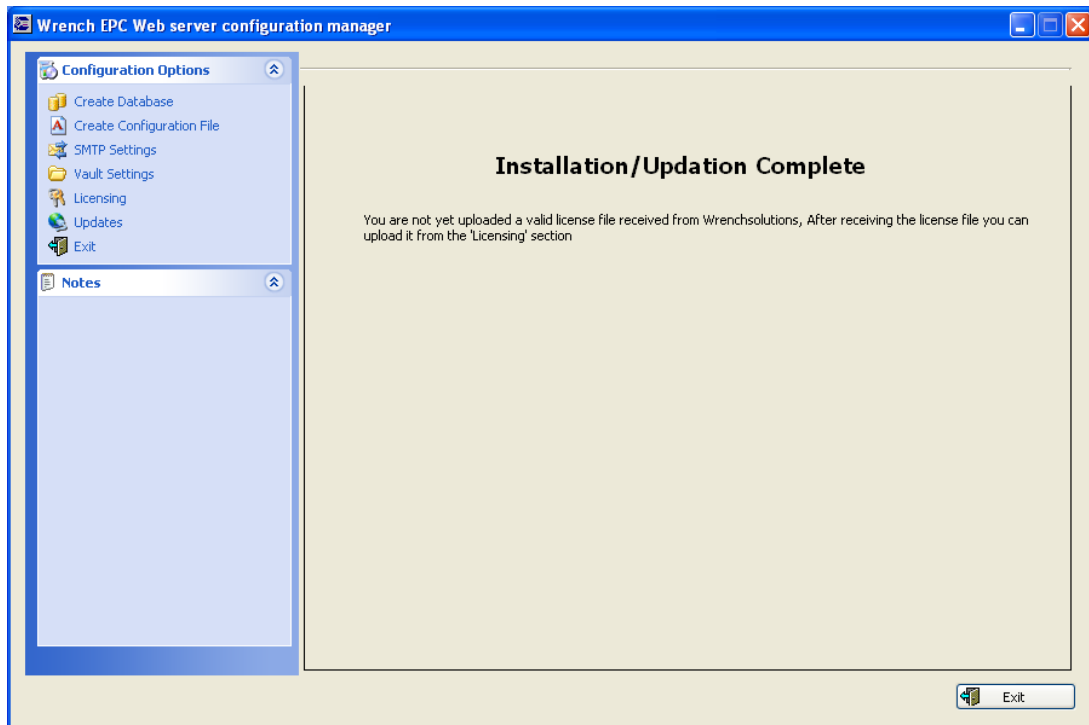


Figure 8 - Wrench EPC Server Configuration (Server configuration completed)

Updates

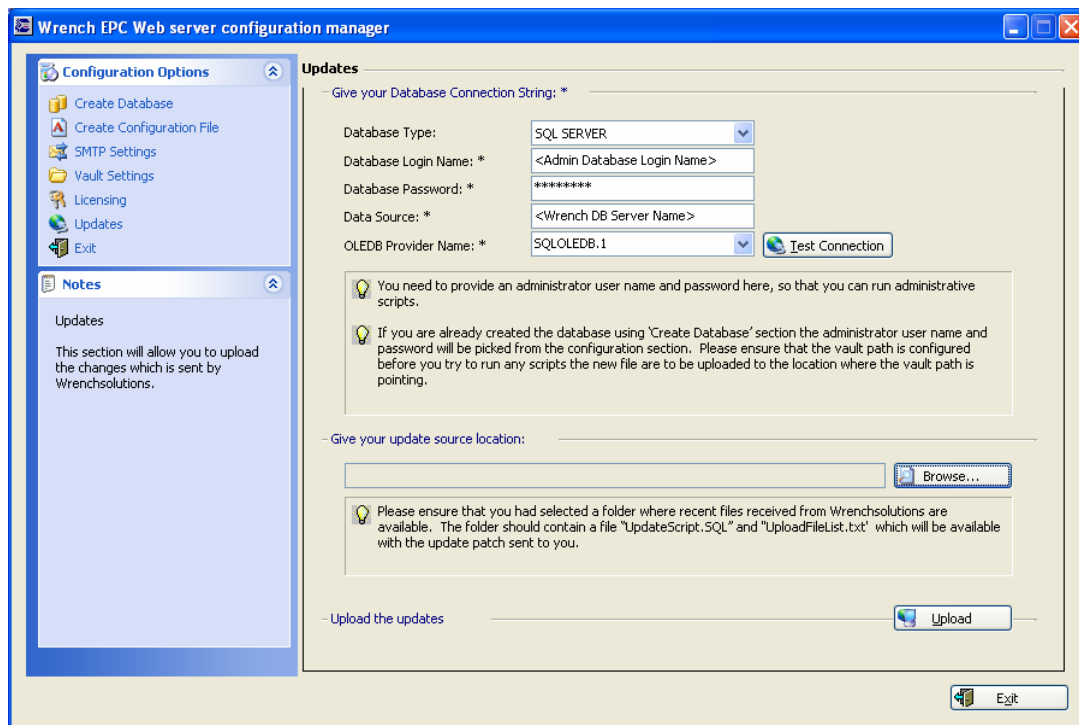


Figure 9 – Wrench EPC Product Updates

Updates are service packs and enhancements released by Wrench Solutions (P) LTD for improving your product experience. Wrench EPC system is capable of automatically synchronizing upgrades and updates to the entire client PCs without having to install them locally on client PCs. This reduces the arduous task of upgrading and version controlling.

Update will essentially need the same database connection settings as mentioned in the “Database Setup” topic for connecting to the database. These details will be automatically available and need not be changed.

Updates will be downloadable from the web site or they may be supplied in CD media. There will be two essential files with each update. They are “UpdateScript.SQL” and “UploadFileList.txt”. Click on the “Browse” button to select the folder where these files are kept and click on “Upload” to complete the update operation. Each client system will be automatically updated during the subsequent login.

Auxilliary Server

Auxiliary server is used under special situations. Since comprehensive document control is a facility in Wrench EPC, it is essential for Wrench EPC system to handle data that is served out of a database and files served from the disk storage system. Hence two types of repositories are required. One for storing data and the other for storing electronic files. The database (SQL Server for example) serves the data storage needs. Wrench EPC needs to have a disk folder available for storing the files. This folder is addressed as “Vault” in the rest of this documentation.

Since Wrench EPC is capable of operating over the Internet, it is important to install the Wrench EPC server on a server that can be accessed across the Internet. It may have some security concerns in keeping critical documents on a web server due to possibilities of hacking and unauthorised access. In such scenario, Wrench EPC system permits you to keep the “vault” on a computer other than the web server. If “vault” is kept on a server other than the Wrench EPC server, you need to install a special server component named “Auxiliary Server”. An auxiliary server functions as an agent in delivering and receiving files from and to the vault. Please see the following illustrations for better understanding.

Illustration 1 (WITH AUXILIARY SERVER)

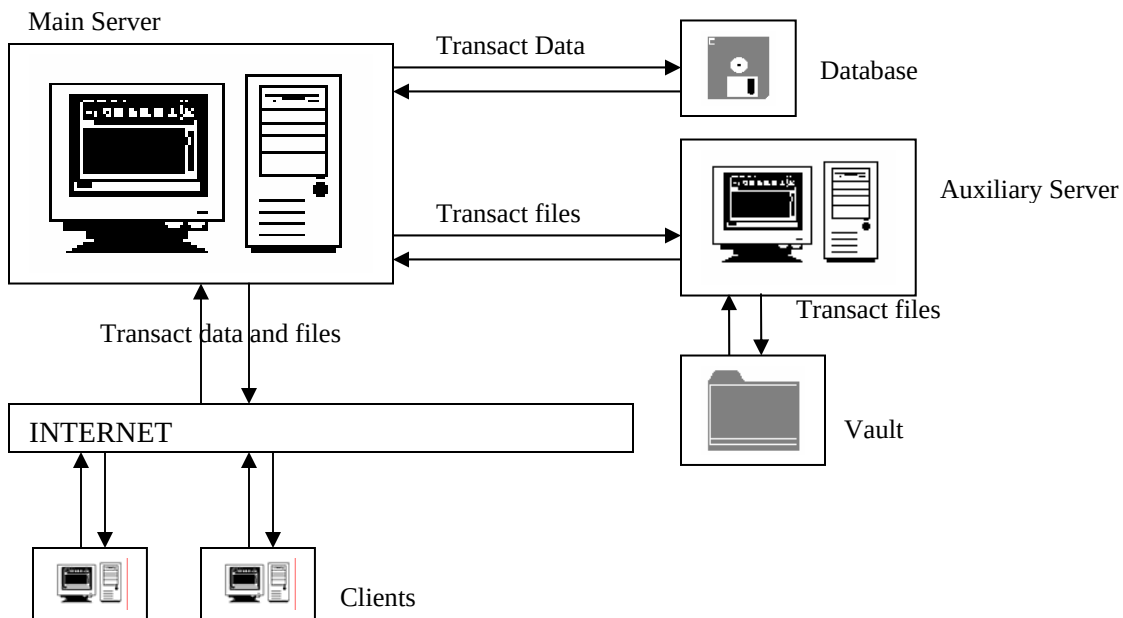
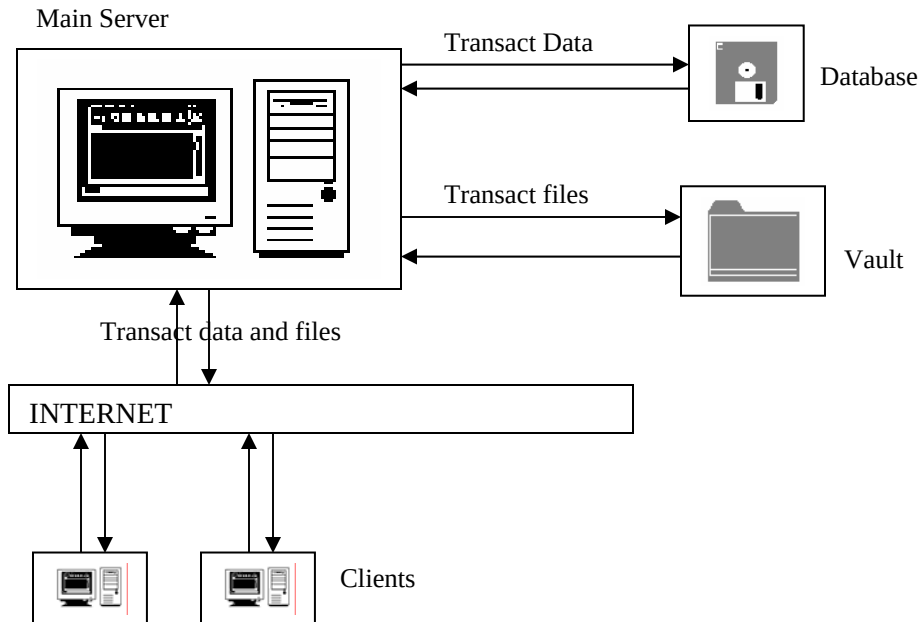


Illustration 2 (WITHOUT AUXILIARY SERVER)



Installing

Installing the auxiliary server is a one-touch operation and is similar to the installation of main server. Place the setup CD in the CD drive and run the “Setup.EXE” found in the “Auxiliary Server” folder. The setup wizard will guide you through the installation. Inputs sought during the setup are the following.

1. Root Folder Name: Name of the root web applications folder, under which the new auxiliary server's virtual folder is to be created. This is best left to the default, unless if you are sure of a new setting.
2. Auxiliary Server folder Name: The name of the virtual folder, in which Auxiliary server is to be installed. This is also best left to the default. This name will be required for the main server to connect to auxiliary server.

Make a note of the URL to the auxiliary server because it will be required while setting up the main server. The URL will be as shown below.

`http://<Server>/<Auxiliary Server Folder Name>/WrenchEPCAuxiliaryServer.aspx`

Where <Server> is the TCP/IP address of the server computer and <Auxiliary Server Folder Name> is what is specified in (2) above.

Client Deployment

1. Create a folder on the local hard disk where you would like to install the client application. Let this be on a disk volume that has at least 10 MB free space.
2. Run web browser and access the “Home.htm” from the Wrench EPC server URL. From this page, you may download the “Upgrade Angel” to the new folder created (step 1)
3. Run the “UpgradeAngel.exe” (downloaded in step 2)
4. Follow the “Upgrade Angel” program to complete setup.

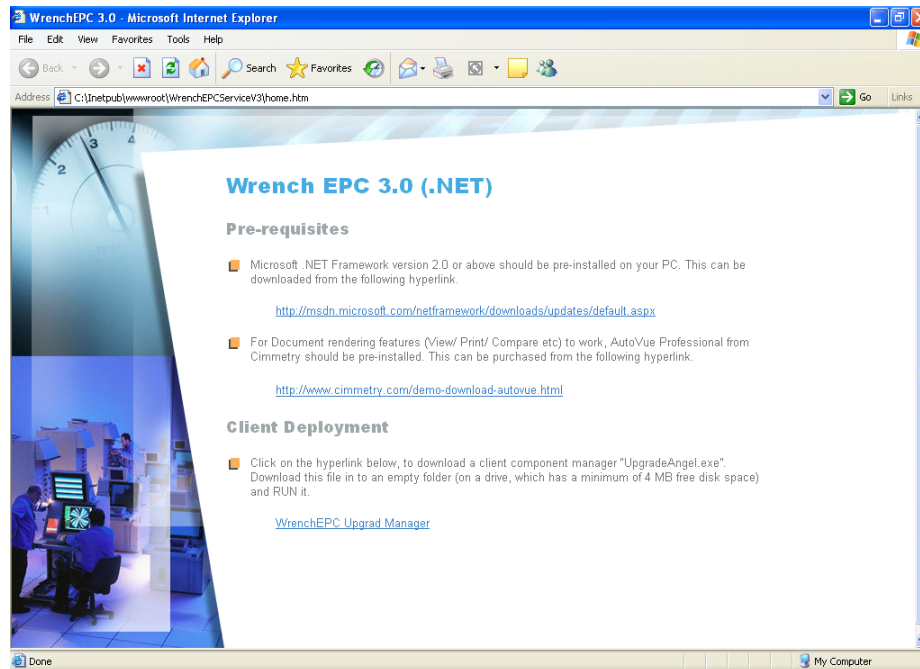


Figure 10 - Client Deployment (Home Page)

The “Upgrade Angel” program

“Upgrade Angel” is a light weight application that can be used as a download agent for other application files. The first screen displayed is as illustrated in the next figure.

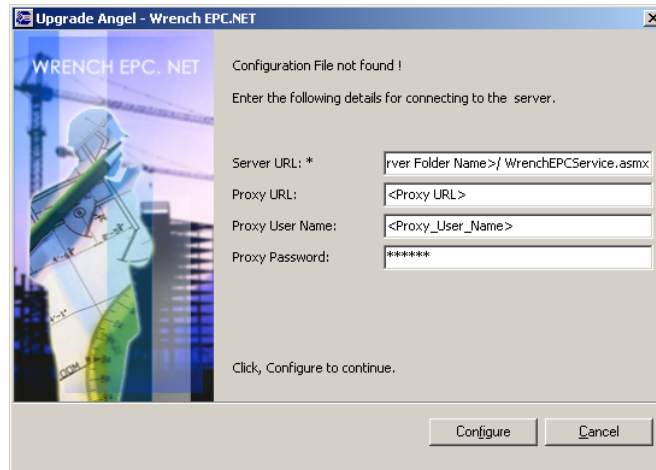


Figure 11 - Client Deployment (Connect to the server)

Following are the details required for this operation

1. Server URL: The URL to the “WrenchEPCServiceV3.asmx” file. This is available on the server where Wrench EPC Server is installed.
2. Proxy URL: If there is a proxy server between the client and the server, specify the proxy server address here.
3. Proxy User name: Login name that can be used to logon to the proxy server.
4. Proxy password: Password for the specified proxy user name.

Clicking on the “Configure” button will display another window where you will need to logon to the Wrench EPC server. Following are the details required for this operation.

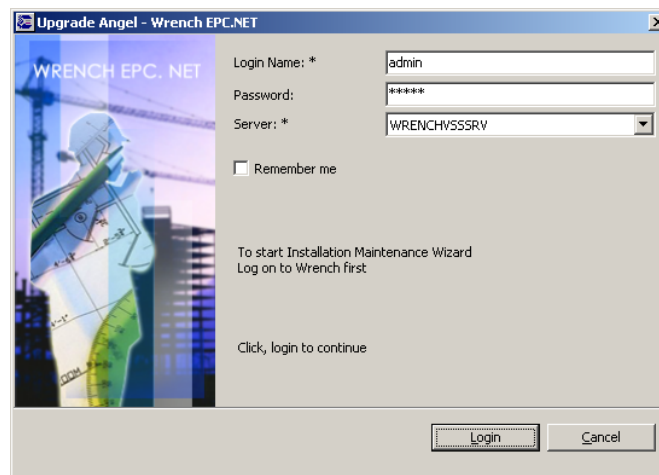


Figure 12 - Client Deployment (Login to the server)

1. Login Name: The Wrench login name. Login name ADMIN is available by default.

2. Password: Password for the specified login name. The password for ADMIN user by default is empty.
3. Server: Wrench system can be configured to serve multiple divisions of an organization. This depends on the configuration of Wrench server system. Select the appropriate option from this combo box.
4. Remember me: You may opt to save the login name and password locally so that you need not type it every time by checking this check box.

Click on the “Login” button to proceed further. The next window will help you select an installation mode. The available modes are “Install / Update”, “Repair” and “Uninstall”. First one is selected by default and that is recommended for first time setup.

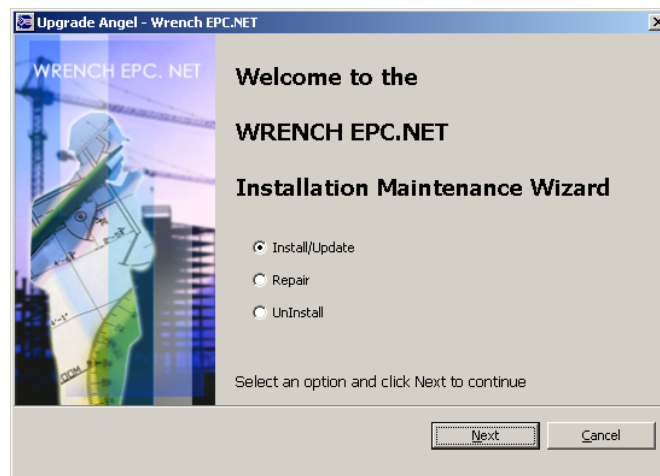


Figure 13 - Client Deployment (Installation Options)

Clicking on the “Next” button will display a list of essential components and another list of optional components. You may select or deselect from the optional components as required.

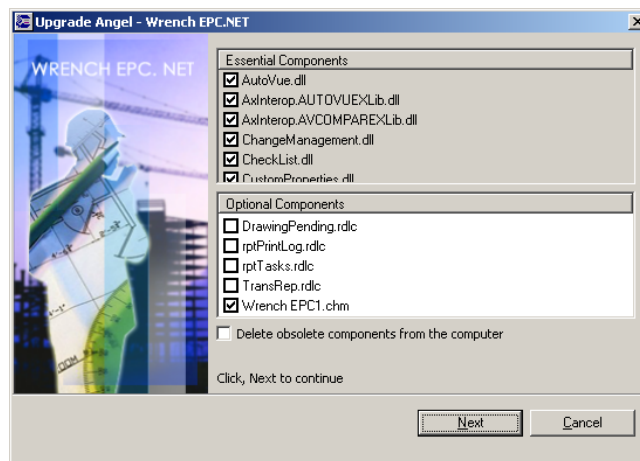


Figure 14 - Client Deployment (Select optional components)

Clicking on “Next” button will guide you to the last screen where a “Download” button will be available. Clicking on this button will download the specified components and create necessary program shortcuts.

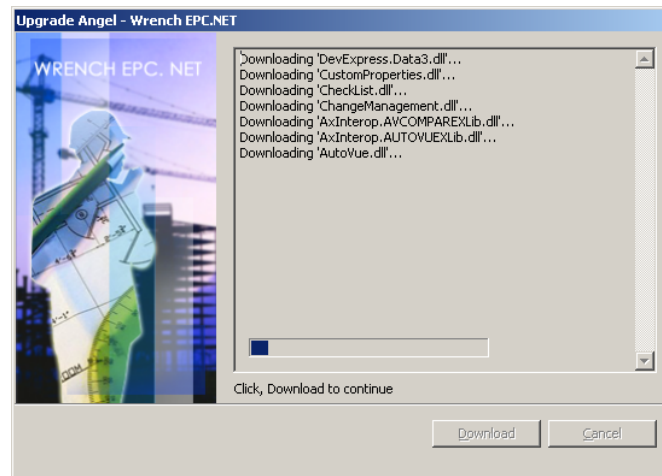


Figure 15 - Client Deployment (Download client files)

Once the entire download is completed, you will get a screen which is shown below.

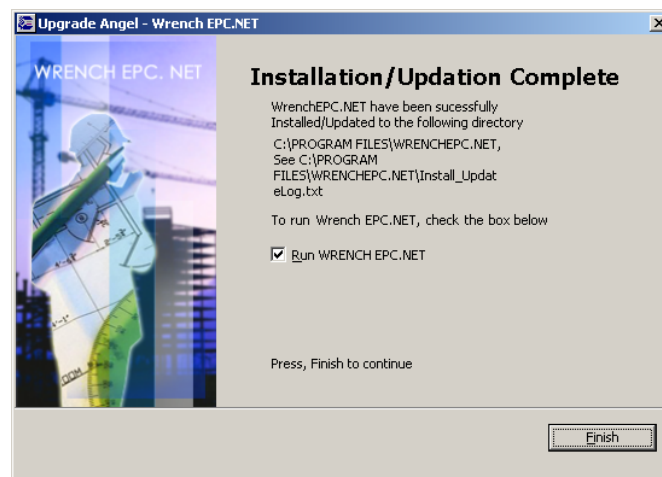


Figure 16 - Client Deployment (Installation Completed)

Be sure to read the message on the closing window to see whether the installation was successful. There will be a log created, which will contain the result of each operation. This log file path will be displayed in the closing window. Be sure to inspect this log file to see all operations were successful. For executing Wrench EPC .NET, please tick “Run Wrench EPC .NET” and click on “Finish’ button.