



**Ektron**

*ebusiness the way it should be*

**Ektron**  
***eMPower***  
**Installation Manual**

**Version 3.7**

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# Introduction

eMPower is the premier solution for Web content management. Use eMPower to maintain, update, and modify the contents of your Web site to preserve the look and feel of the original design.

The tasks of site maintenance and content revision are passed on to your subject experts. Based upon the page layouts and processes that you create, the highest level of quality is preserved and maintained throughout the life cycle of your site.

## What is eMPower?

eMPower is an affordable Web content management system that puts an easy-to-use process around the task of getting content to your Web site. It allows the Web team to easily administer the site content. eMPower advantages include:

### **End-to-end content control**

The Webmaster can control all aspects of the content management system including the look and feel, who can edit what sections, and who approves the content.

### **Streamline process for multiple authors**

eMPower allows multiple business users to update the site's content with a check-in/check-out system that streamlines content management and saves valuable time - translating to more participation and better content.

### **Eliminates bottlenecks and frees technical staff**

eMPower also streamlines the content editing process. By allowing business users to update the site's content and then directly publish to the Web, the technical staff is freed to concentrate on the technical aspects of the site.

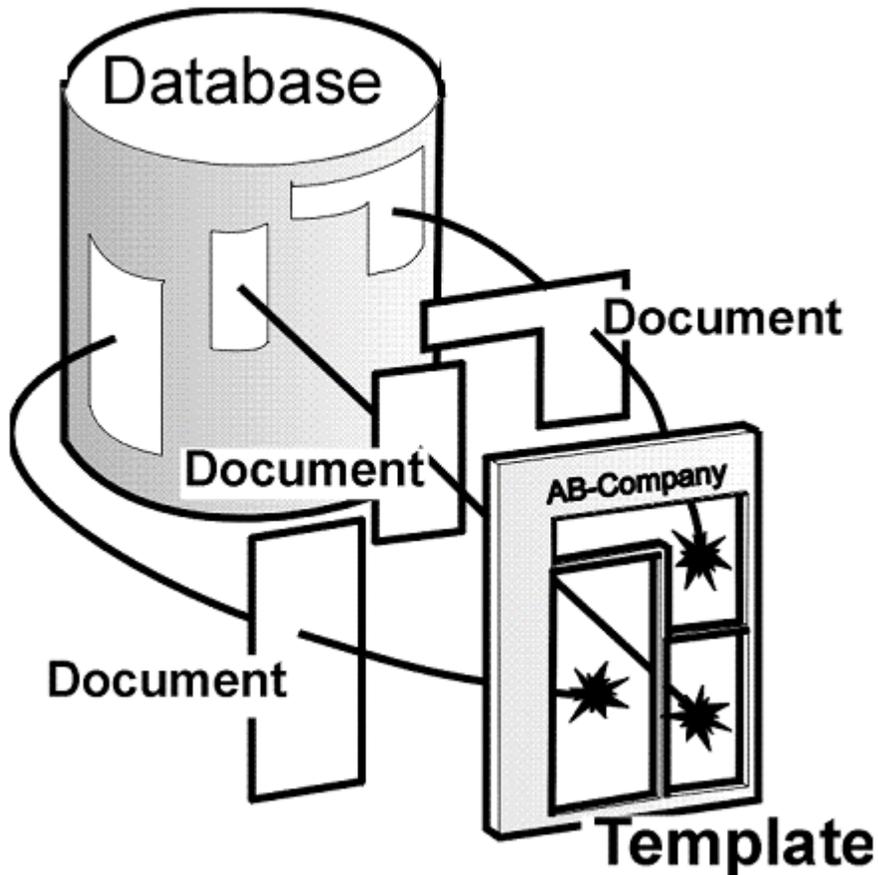
## Simple to implement and use

eMPower is designed to be easy to use by both nontechnical business users who are creating the content and the Web masters who are controlling the process.

## How does eMPower work with ColdFusion?

The eMPower application uses ColdFusion, by Macromedia Corporation, when building Web pages. A site built by using eMPower, checks all page requests to determine if those pages contain **ColdFusion Markup Language (CFML)** tags.

When a Web page is requested by the browser, eMPower uses a ColdFusion server to extract the template, content blocks, business rules and permissions from the database to build the page. After the page is built, it is returned to the Web server which then sends it to the browser for display. This process is illustrated below.



## System Requirements

The following components are required when developing or viewing an eMPower-based Web site:

Browsers	<p>When <b>viewing</b> a Web site developed with eMPower:</p> <ul style="list-style-type: none"> <li>• All Major Browsers</li> </ul> <p>When <b>modifying</b> a Web site developed with eMPower:</p> <ul style="list-style-type: none"> <li>• Microsoft's Internet Explorer, v. 4.01 and higher</li> <li>• Netscape v.4.x and higher.</li> </ul>
----------	--

Operating System	Server: MS Windows, NT/2000, Solaris, Linux Client: All Windows Platforms
Hardware	Any IBM-PC compatible system. Suggested minimum requirements: Pentium 166 MHz or faster, with at least 64 MB of RAM.
Web Server Applications	Macromedia ColdFusion Server, v. 4.01 or higher

## Supported Tools

The following components are supported when developing or viewing an eMPower-based Web site.

Web Development Tools	All the latest tools, including: <ul style="list-style-type: none"> <li>• Macromedia HomeSite</li> <li>• Macromedia ColdFusion Studio</li> <li>• Macromedia DreamWeaver</li> <li>• Microsoft's FrontPage 2000</li> <li>• NotePad</li> </ul>
Web Servers	Microsoft's Internet Information Server (IIS) 4.0 or higher Netscape Enterprise Server (NSAPI) 3.51 and 3.6 Apache API 1.3.6 and higher Web Site Server API (WSAPI)

# Which Install is For Me?

Depending on if you are upgrading your current version of eMPower or this is your first time installing the application on your machine, this manual will help you through it all.

Listed below are the different installation types this manual will covers

- "Upgrading eMPower from 2.x" on page [6](#)
- "Upgrading eMPower from 3.x" on page [12](#)
- "Installing eMPower on Windows" on page [26](#)
- "Installing eMPower on Linux or Unix" on page [41](#)

Also, the default installation will install a MS-Access database for use with the eMPower site. For information on using a different database, see "Databases" on page [73](#).

# Upgrading eMPower from 2.x

If you are presently using eMPower 2.x, there are a few tasks that you will need to perform before you should install and setup eMPower Version 3.7. This chapter will guide you through the steps of upgrading eMPower.

## Upgrading from eMPower 2.0

There are a few tasks that will need to be performed if you are upgrading from eMPower Version 2.0 to Version 3.7. Listed below is a quick check list of tasks you should perform before running the eMPower Version 3.7 installation.

### Back-up Your Database

Locate the eMPower database you are using on your server and back it up. It will be beneficial if you removed it from the eMPower directory to be sure that it doesn't get overwritten in the installation.

### Modify Your DSN

After you back up your eMPower 2.0 database, and move it to another directory, you will want to modify your current eMPower DSN to point to that database.

You can do this through ColdFusion or your ODBC Datasource Manager. You will need to perform at least two steps:

1. If your datasource name for eMPower is eMPower\_sample, you will want to change it to something unique (i.e. eMPower20)
2. Point the DSN to the backed up database in the other directory.

You are now ready to install eMPower Version 3.7.

## Install eMPower Version 3.7

Install eMPower Version 3.7 on your server. The first time you run the installation, you will be asked to remove all the old files. Click OK, then run the installation again.

For more information on installing eMPower, refer to the three installation chapters for Windows, Linux, or Unix.

When the installation is complete, you will have to run the database upgrade wizard.

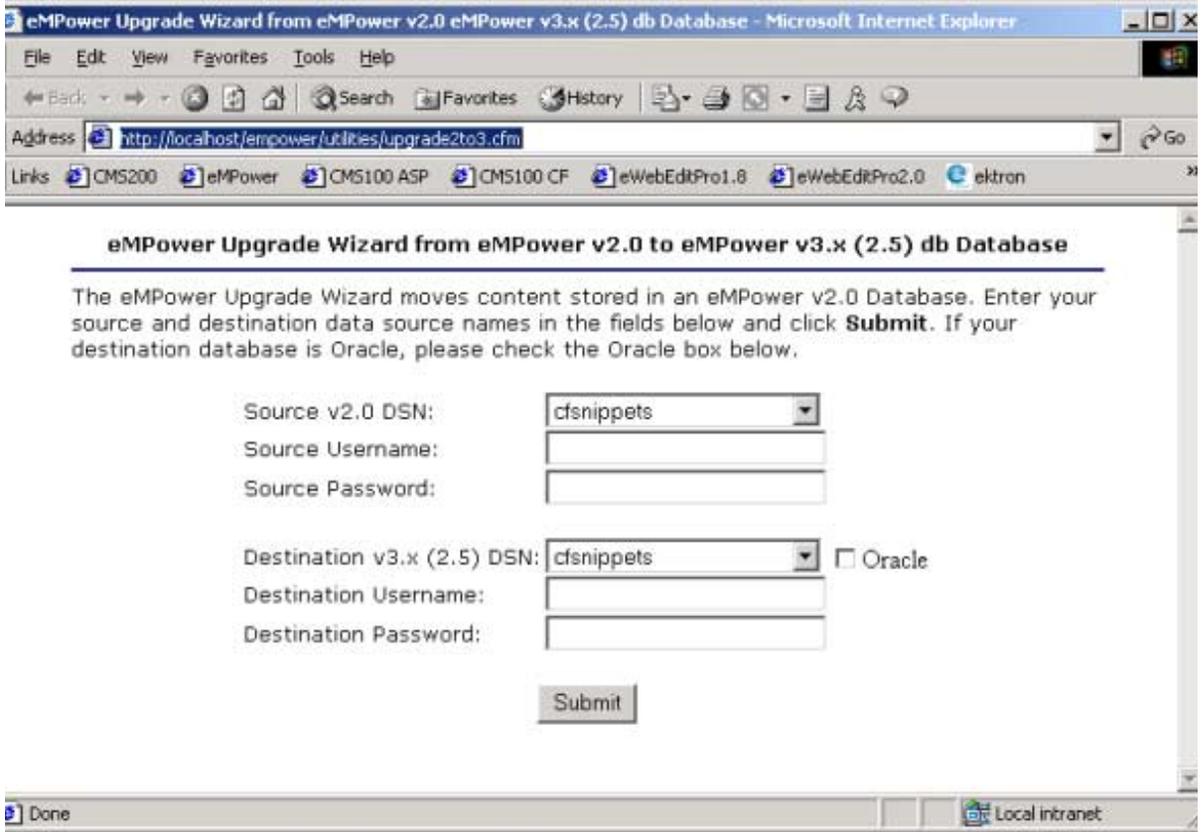
## Running the Database Upgrade Wizard

Since the eMPower Version 2.0 and Version 3.7 databases have a slightly different structure, you will need to run the Database Upgrade Wizard supplied with the eMPower Version 3.7 installation.

To open the Database Upgrade Wizard, navigate to the following URL:

**<http://your sitepath/eMPower/utilities/upgrade2to3.cfm>**

When you navigate to that page, you will see the following:



You will need to fill out the proper fields in order to run the database upgrade wizard properly. Fill out the fields according to the table seen below.

Field Name	Field Entry
Source v2.0 DSN	Select, from the drop down list, the DSN of the source database. This should be the DSN you created when you backed-up your eMPower 2.0 database.
Source Username	Enter a username for the source database if needed.
Source Password	Enter the password for the source database if needed
Destination v3.x DSN	Select, from the drop down list, the DSN of the source database. This should be the DSN created by the eMPower Version 3.7 install. By default, the DSN is eMPower_sample.

Field Name	Field Entry
Oracle	Check this box if the destination database is an Oracle database,
Destination Username	Enter a username for the destination database if needed.
Destination Password	Enter the password for the destination database if needed
Submit	When all the fields are properly filled out, click this button to execute the database upgrade wizard.

After the upgrade has been run, all you will need to do is configure eMPower to use the new database.

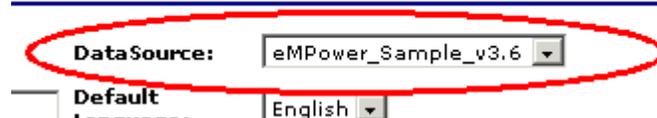
**NOTE** If you haven't changed the name of the DSN for the Version 3.7 database, you will not need to perform the next step.

## Configuring DSN for eMPower

When you have completed the database upgrade wizard, you will need to make sure that eMPower uses the destination DSN. To do this:

1. Begin by navigating to the eMPower Version 3.7 Web site, and logging in as **Admin/Admin**.
2. Follow the path: **Menu > Workarea > Setup > Configuration**
3. Choose the Datasource from the proper drop down list.

### figuration Build 3.6.0.01



4. Click on the **Update Setup** button at the bottom of the page. Your eMPower Version 3.7 Web site will now be up and running with the information that was contained in your eMPower 2.0 database.

## Upgrading from eMPower 2.5

Since the database for eMPower Version 3.7 is the same as eMPower 2.5, there are not as many steps to upgrade. Listed below is a check list of tasks you will need to perform to upgrade from eMPower 2.5.

### **Back-up your eMPower Database**

If you are using one of the 2.5 sample databases, you should make a back-up copy of it before running the eMPower Version 3.7 installation, and place the database in another directory. The Version 3.7 installation will attempt to copy a new version of the supplied database files during the installation, and remove the 2.5 database.

The database that you back up will work fine with eMPower Version 3.7 since the databases are the same.

### **Install eMPower Version 3.7**

Install eMPower Version 3.7 on your server. The first time you run the installation, you will be asked to remove all the old files. Click OK, then run the installation again.

For more information on installing eMPower, refer to the three installation chapters for Windows, Linux, or Unix.

### **Update Your DSN**

When the installation is complete, the default DSN for eMPower 2.5 will be overwritten by the Version 3.7 DSN. This will cause the new DSN to point to the new eMPower\_sample database. Since we will be using the database from 2.5, you have two options.

#### **Create a New DSN**

If you decide to create a new DSN, follow these steps:

1. Create the new DSN in ColdFusion or your ODBC Datasource Administrator.
2. Point the DSN to the database that you had backed-up before you ran the Version 3.7 installation.

When you have completed creating the DSN, you will need to make sure that eMPower uses that DSN. To do this:

1. Begin by navigating to the eMPower Version 3.7 Web site, and logging in as **Admin/Admin**.
2. Follow the path: **Menu > Workarea > Setup > Configuration**
3. Choose the Datasource from the proper drop down list.

#### Figure 3.6.0.01



4. Click on the **Update Setup** button at the bottom of the page. Your eMPower Version 3.7 Web site will now be up and running with the information that was contained in your eMPower 2.5 database.

### **Modify the Existing DSN**

If you decide to modify the existing DSN, all you need to do is modify the DSN that was created for eMPower Version 3.7 by:

1. Updating the name (if needed)
2. Pointing the DSN to the database that you backed up before you ran the Version 3.7 installation.

# Upgrading eMPower from 3.x

Unlike upgrading from eMPower 2.x, upgrades from eMPower 3.x are handled automatically in the installations. If you are currently using a version of eMPower 3.0 or higher, then the installation of Version 3.7 will take the proper steps to upgrade eMPower as easily as possible.

When performing the maintenance you will need to know certain things about your system, as well as how your current configuration of eMPower is setup. This section will explain the information you will need to know when upgrading your 3.0 or higher version of eMPower to Version 3.7.

## Before You Upgrade...

Before you upgrade to eMPower Version 3.7, you will want to backup files that you have made changes to, as well as templates that you are currently using. Most importantly, you will want to backup the folder **yoursite\empsessions**. This will be used as a reference to assist you with updating the newer version of the files.

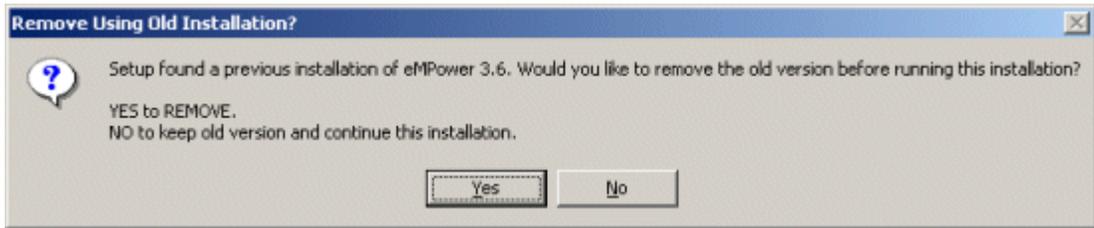
## Beginning the Upgrade

To begin the upgrade process, you will first need to begin the eMPower Version 3.7 installation that you have downloaded from the Ektron Web site.

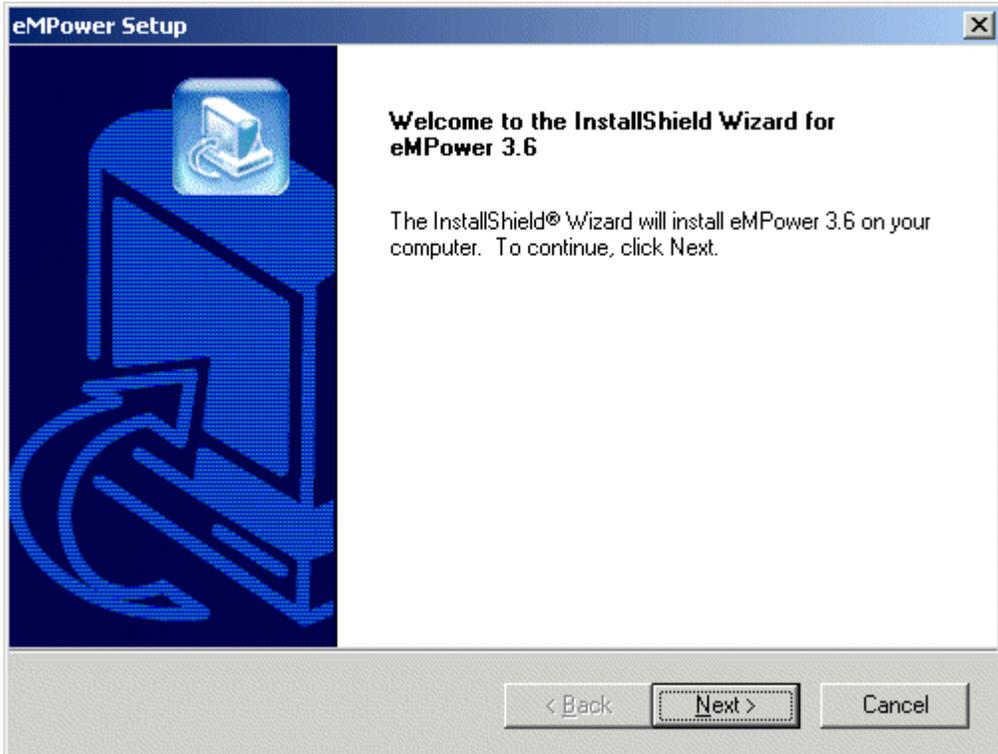


eMPower.exe

1. To begin the upgrade, double click on the **empower.exe** icon in the directory that you have downloaded it to.
2. Once the installation has begun, it will detect that you have a previous version of eMPower installed on your machine, and prompt you with a message seen below.

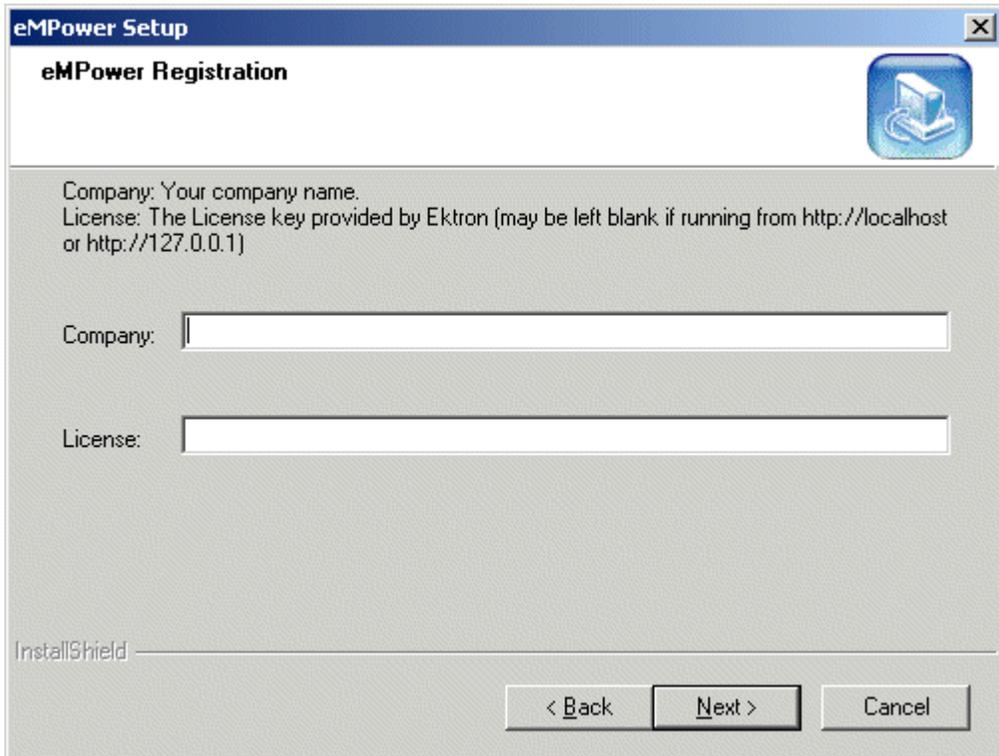


3. When you see this message, you will have two options:
  - Clicking **Yes** will remove the previous version of eMPower off your machine. Once the files are removed, you can then run a fresh installation. If you click yes, follow the steps, then proceed to "Installing eMPower on Windows" on page 26.
  - Clicking **No** will not remove the previous version of eMPower, and will allow you to proceed with the upgrade. If you click no, proceed to the next step.
4. By clicking no, you will start the upgrade process, and will see the following screen:



At this screen, click **Next** to continue, or click **Cancel** to exit the upgrade.

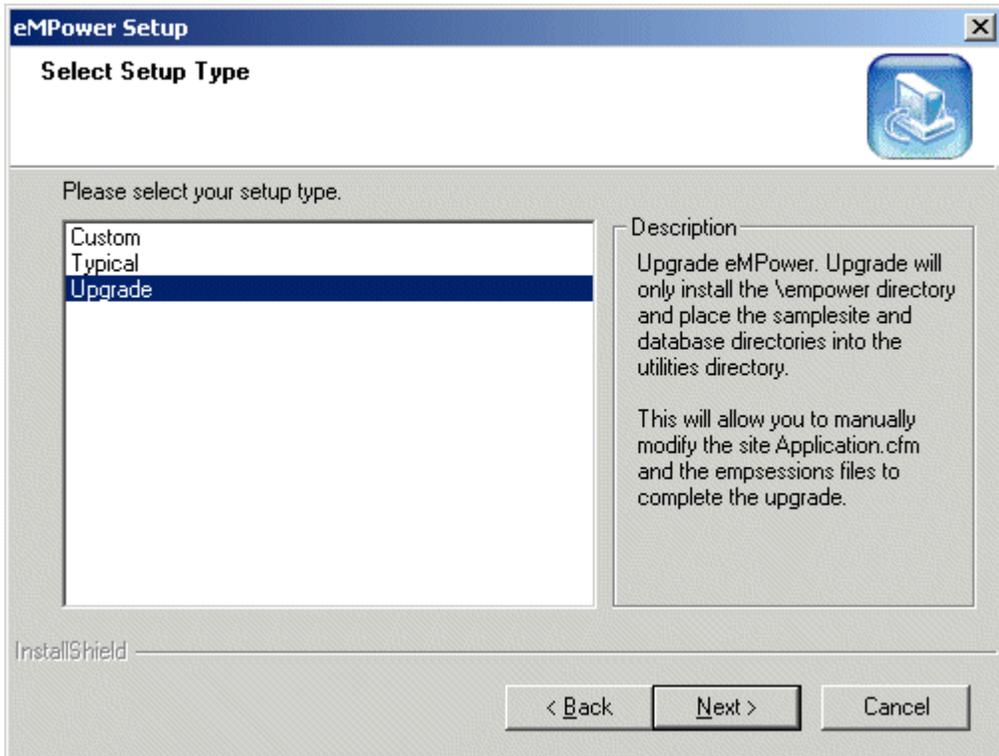
5. Once you click next, you will be taken to the eMPower Registration page seen below.



The screenshot shows a Windows-style dialog box titled "eMPower Setup" with a sub-header "eMPower Registration". The dialog contains two text input fields: "Company:" and "License:". Above the "License:" field, there is explanatory text: "License: The License key provided by Ektron (may be left blank if running from http://localhost or http://127.0.0.1)". At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel". The "InstallShield" logo is visible in the bottom-left corner.

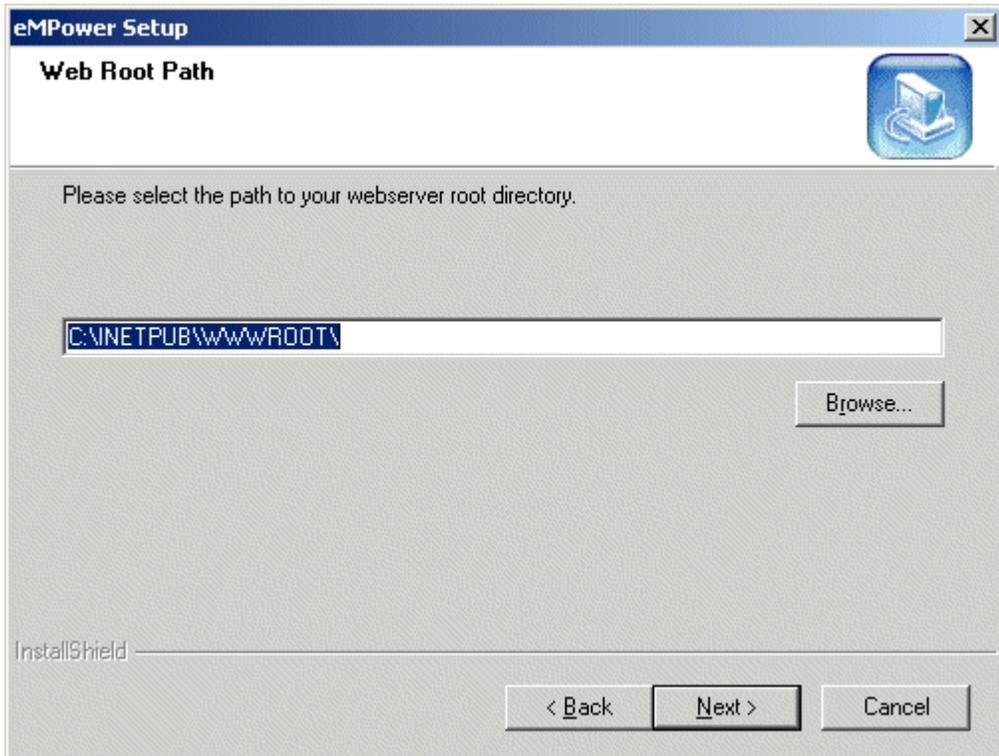
At this screen, enter your company name and license key in the proper fields, then click **Next** to continue.

6. Once you click the next button, you will be prompted to specify the setup type you would like to perform.



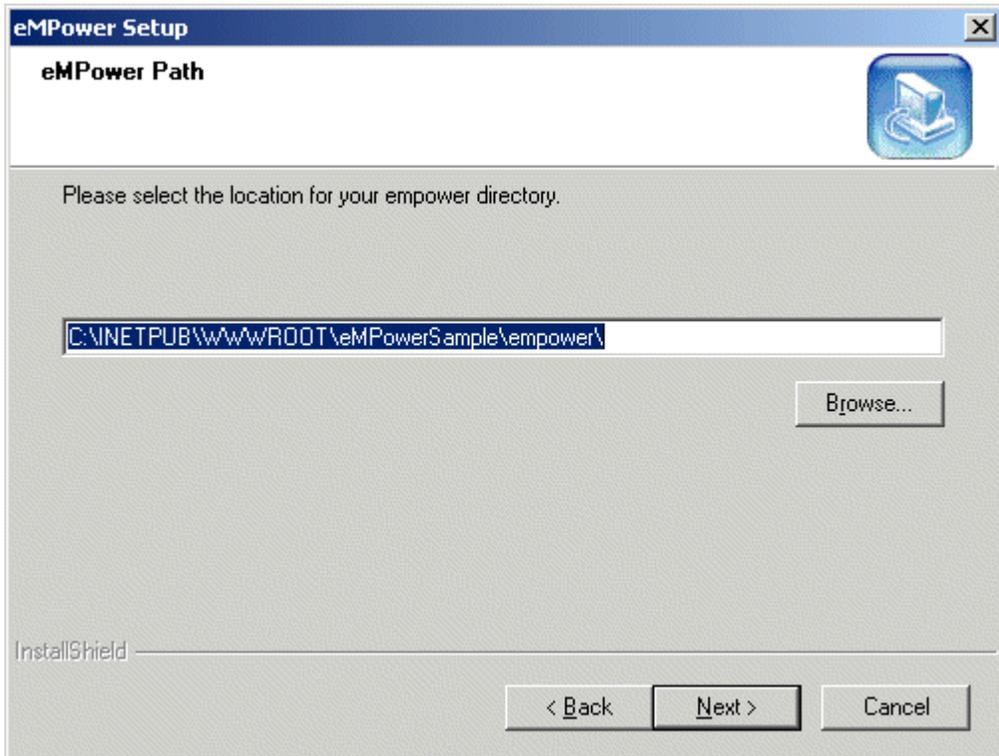
At this page, since you are upgrading eMPower, choose **Upgrade** from the list of setup types. This will install the new files necessary to upgrade your eMPower site, and not over write files and databases that you might have changed. Once you have chosen Upgrade, click **Next** to continue.

7. Once you click next, you will be asked to enter the path to your Web server root directory.

**WARNING!**

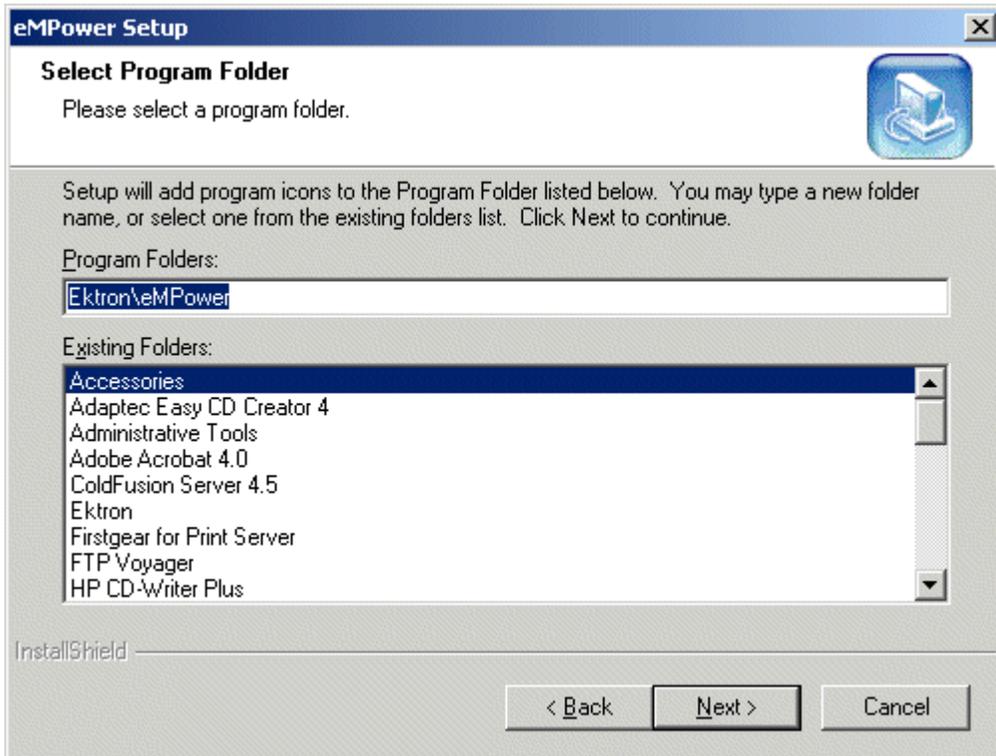
This is **NOT** where you want to install the eMPower files. The installation needs to know your Web site's root directory to properly configure the new files.

- At this screen, either accept the default if it is correct, or click **Browse** to locate the proper directory. Once you have specified the root directory, click the **Next** button to proceed.
8. The next screen will ask you where you want to install the eMPower directory to. If you did not specify to install this component, skip this step.



At this screen, either accept the default location for the empower directory, or specify a new one by clicking the **Browse** button and selecting a new directory. Once completed, click **Next** to continue.

9. The next screen will ask you where you want to install the Start Menu shortcut.



At this screen, either accept the default, or specify a new folder. Once complete, click **Next** to continue.

- After you click next, the installation will have all the necessary information needed to install eMPower. Once all the files have been installed, the upgrade will be complete.

**NOTE** Once the installation is complete, a new page will open with information about mapping with ColdFusion and eMPower.

## What Was Just Installed?

Provided that you entered all the correct information about your previous eMPower Web site, all the old files have been overwritten with the newer ones. Also, the latest sample site and database have also been installed to the utilities directory in the empower folder that was installed. These two directories have been installed so that you can update certain files with the newer ones.

## What's Next?

After you have successfully upgraded your 3.x version of eMPower to Version 3.7, then you must then perform some minor tasks to complete the upgrade process.

### Updating the empsessions directory

Since you backed up your current empsessions directory, you will be able to use the backed up version as a reference to make the necessary changes to the current version.

---

**NOTE** If you never made any changes to the files in the empsessions directory, you will not need to perform this maintenance.

---

The new empsessions directory is located in the empower\utilities\empowersample directory that has been installed. Since you had backed up your previous empsessions directory, you will be able to use those files as a reference to make the necessary changes to the new files in the new empsessions directory.

### Updating Application.cfm

There are two files called Application.cfm that are used with eMPower. The first use in the eMPower root directory, the second is in the eMPower utilities directory. You can access the new versions of the files by accessing the empower\utilities\empowersample directory that was installed when upgrading. Simply use your old versions as a reference to make the necessary changes to the newer versions of the files.

---

**NOTE** If you never made any changes to these files, you will not need to perform this maintenance.

---

# Pre-Installation Tasks

As described in "What is eMPower?" on page 1, eMPower works with other applications to produce your enhanced Web site. These auxiliary applications must be installed and configured for eMPower usage **before** installing the eMPower application.

You must first perform the following procedures before installing eMPower:

- Install your Web server (such as the Microsoft® Personal Web Server or Internet Information Server).
- Install Macromedia ColdFusion Application Server, version 4.01 or greater (Professional or Enterprise edition).
- Set the default document of your Web server to index.cfm.
- Install MDAC Drivers.

These tasks are described in the following sections. When completed, please proceed to the next chapter, for information about installing eMPower.

## Install Your Web Server

Install the Web server that will be used to serve your eMPower Web site.

The Web server must be supported by ColdFusion. Examples are Microsoft's Internet Information Server and Personal Web Server.

Install the server according to the standard installation procedures.

## Install ColdFusion Application Server

Install Macromedia ColdFusion Application Server, version 4.01 or greater (Professional or Enterprise edition), following the standard installation procedures.

---

## Install Microsoft Data Access Component (MDAC) Drivers

eMPower requires MDAC drivers version 2.1 or later. If you do not have these resident on your system, you must install them prior to the eMPower installation.

---

**NOTE** If you are going to use Microsoft SQL as the eMPower database, MDAC drivers are installed automatically as part of the SQL installation.

---

To find out which drivers are installed on your machine, download the Component Checker tool from Microsoft following their procedures to determine your drivers. You can find this tool and the latest MDAC drivers at: <http://www.microsoft.com/data>

---

**NOTE** If you have MDAC drivers, Version 2.6, you *must* install the jet drivers. These drivers are available at: <http://www.microsoft.com/downloads>.

---

## Set Default Document

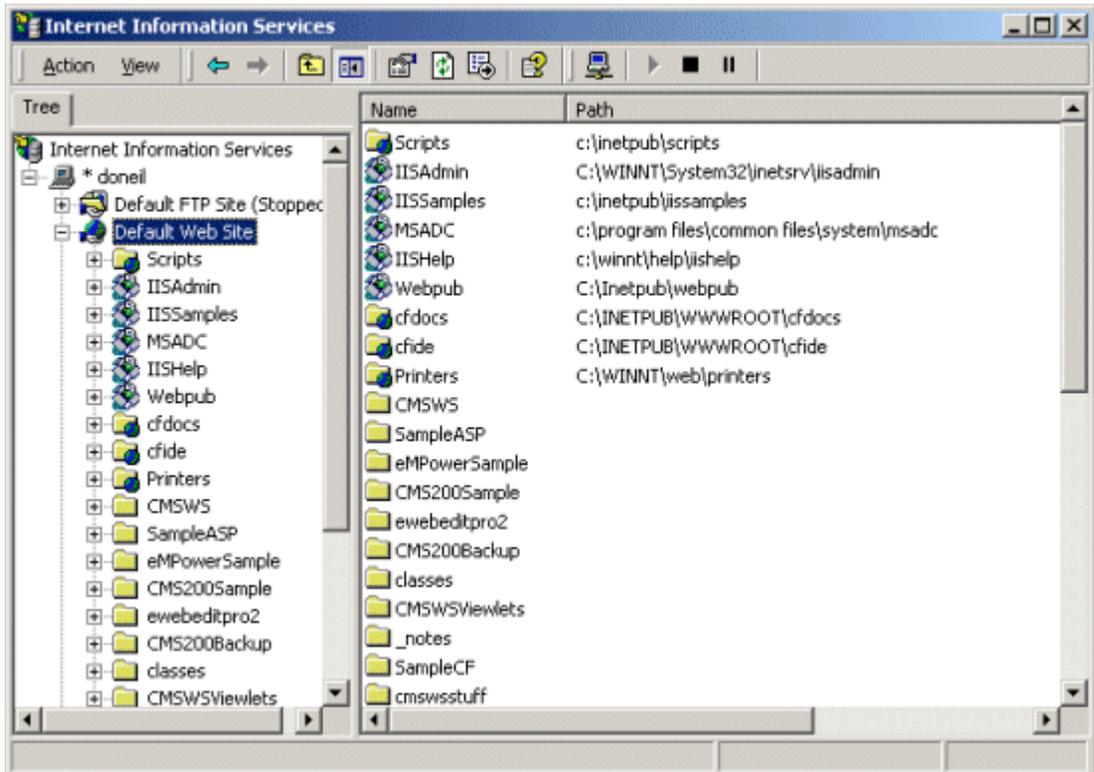
The default document of your Web server (either the Internet Information Server or the Personal Web Server, depending upon your system), and the ColdFusion Mail Server, must all be set to Index.cfm.

Follow the steps outlined in the next sections to configure the document type for each server.

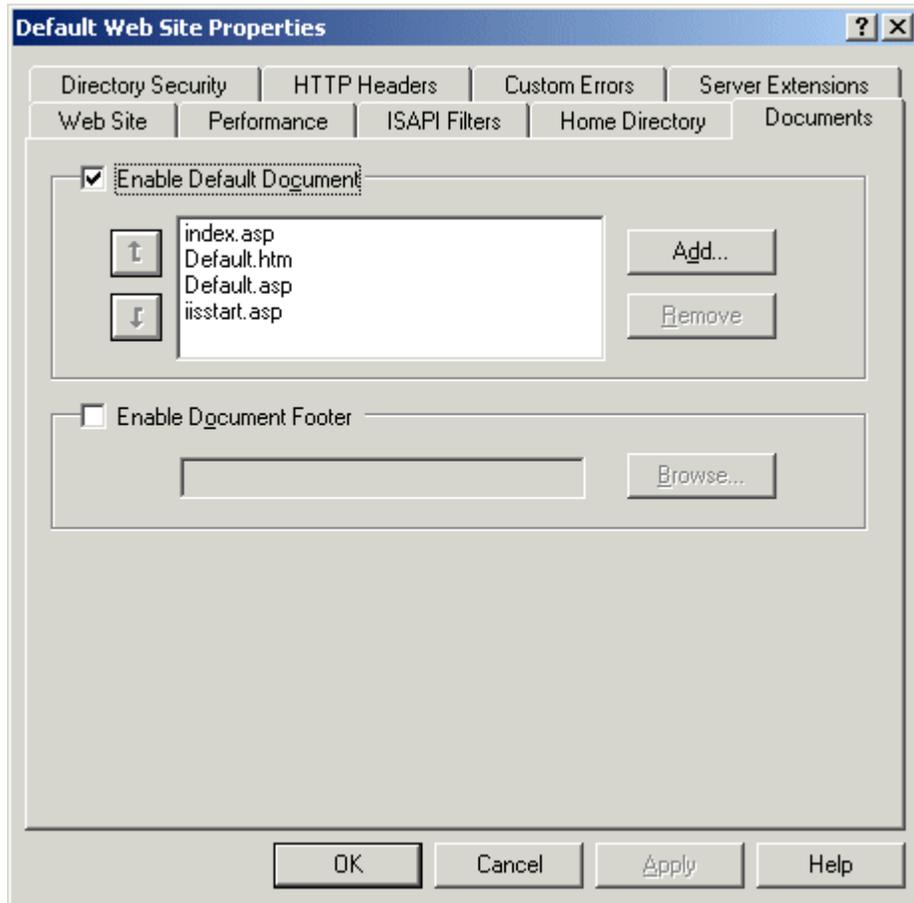
### Win 2000/NT Internet Information Server Settings

Set the default document to index.cfm by performing the following steps:

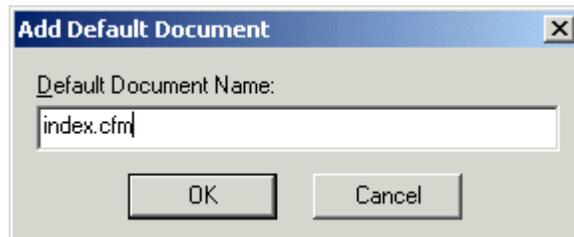
1. To open the **Internet Services Manager** Console, follow the path:  
**Start > Settings > Control Panel > Administrative Tools > Internet Services Manager**
2. Expand the tree in the left frame of the console and select Default Web Site.



3. From the menubar, select: **Action > Properties** to open the **Default Web Site Properties** dialog
4. Select the **Documents** tab to view the Documents Property Sheet, shown



5. Click **Add**
6. In the **Add Default Document** dialog box, enter the file name `index.cfm`



7. Click **OK** when finished.
8. Click **Apply** or **OK** to save the settings before closing the **Internet Services Manager** console.

## Win 95/98 Personal Web Server Settings

1. Open the **Personal Web Manager** Console by following the path:  
**Start > Settings > Control Panel > Administrative Tools > Personal Web Manager.**
2. Select **Advanced** from the View Menu.
3. Select the **Home** directory within the Virtual Directories



4. Enter index.cfm in the Default Document(s) field.

## Ready for Installation

After you have performed all the pre-installation tasks listed in this chapter, you are ready to install eMPower.

# Installing eMPower on Windows

After completing the preparations detailed in the preceding chapter, “Pre-Installation Tasks,” you are ready to install the eMPower application.

## Installing eMPower

Locate the file that you downloaded from Ektron’s Web Site ([www.ektron.com](http://www.ektron.com)). The installation filename is:



eMPower.exe

If you proceed through the installation wizard accepting all defaults, you will install eMPower using a Microsoft Access database. You do not need to have Microsoft Access installed.

---

**WARNING!**

If you are upgrading from a previous version of eMPower, see “Upgrading eMPower from 2.x” on page 6 or “Upgrading eMPower from 3.x” on page 12 depending on your current version of eMPower.

---

To install eMPower, perform the following steps:

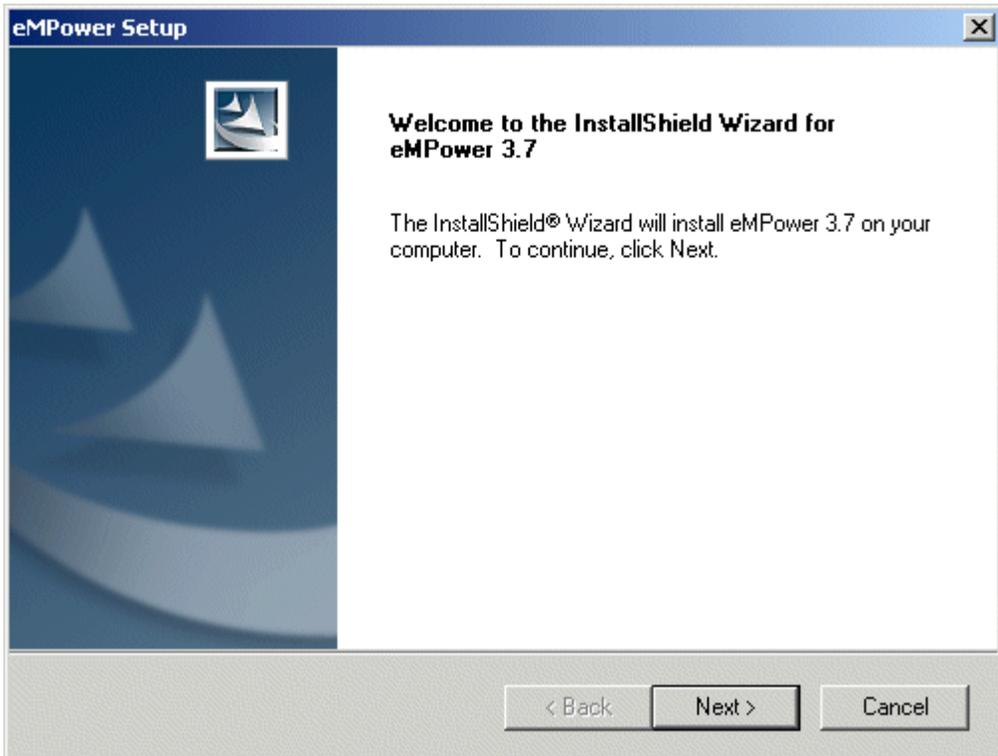
1. Double-click the file eMPower.exe.

---

**NOTE**

The typical installation uses the directory `inetpub\wwwroot\eMPowersample`. Your directory may be labeled differently but the basic structure is identical.

---



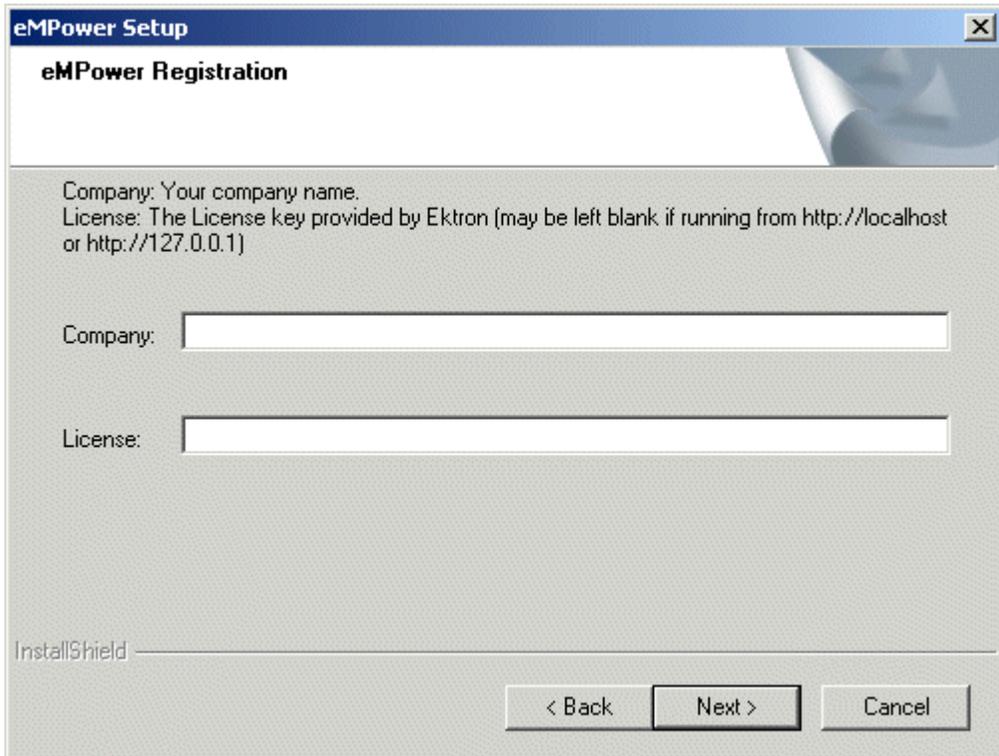
2. The **Welcome** dialog box appears. Exit all programs before clicking **Next** to continue with the installation.

**WARNING!**

---

Make sure you are not running any other Windows programs during the installation process. If you are, click **Cancel** to exit from the setup program, exit all other Windows programs, and then go to step 2.

---

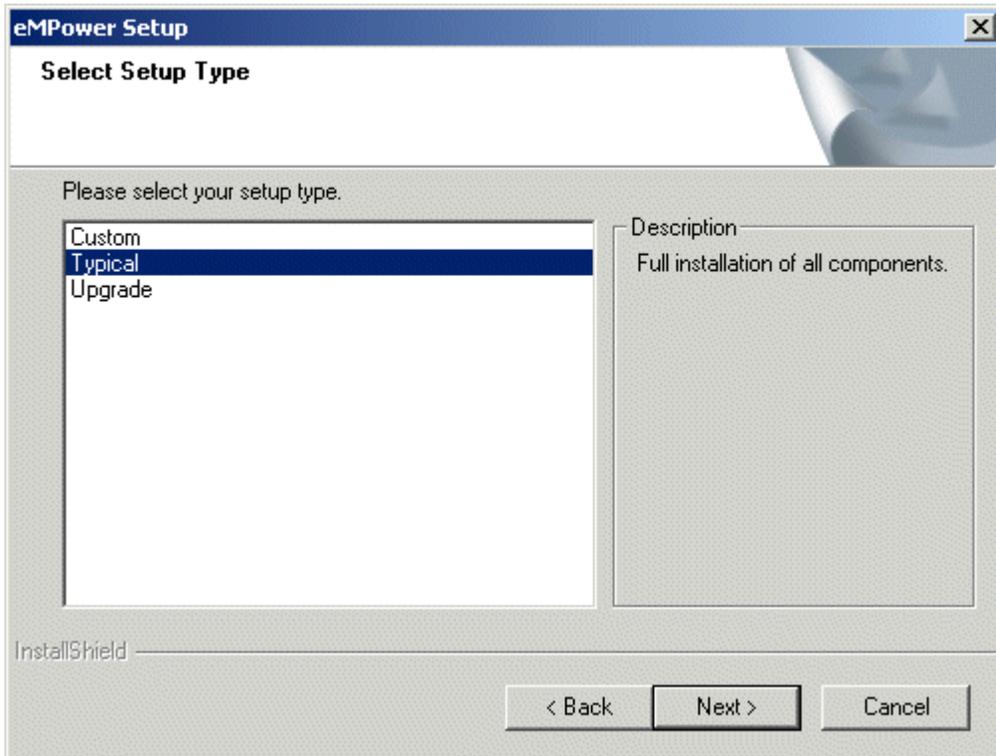


3. In the eMPower **Registration** dialog, enter the **Company** and **license** for this installation, in the fields provided. Click **Next** to proceed.

**NOTE**

You do not need to enter the license here to proceed, however, you will need to enter the license manually before you can use eMPower.

4. Once you enter the registration information and click next, you will be taken to the following screen:



From here, you will be able to select the setup type that you would like to perform

- **Custom**  
This type will allow you to choose which files you would like to install.
- **Typical**  
This will install all the files in the installation including documentation, the sample site, as well as the necessary files.
- **Upgrade**  
This setup type is used if you are upgrading your eMPower Web site from version 3.0 or higher. For information about upgrading, see "Upgrading eMPower from 3.x" on page 12.

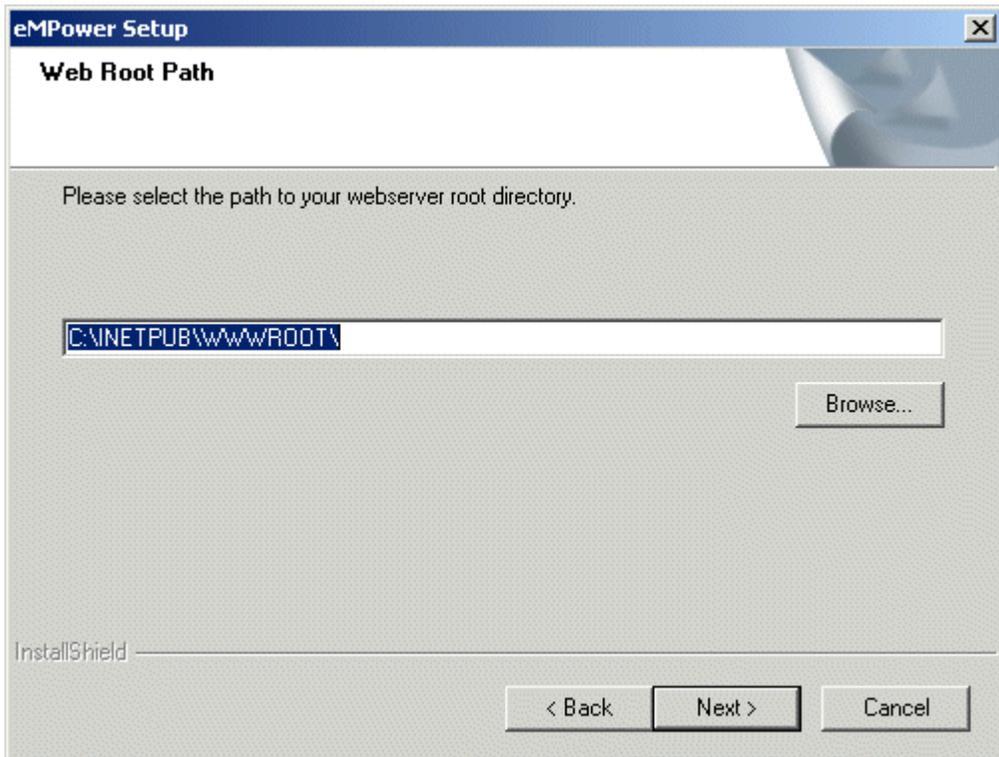
---

**NOTE** If this is your first time installing eMPower, Ektron recommends selecting the default "Typical" installation.

---

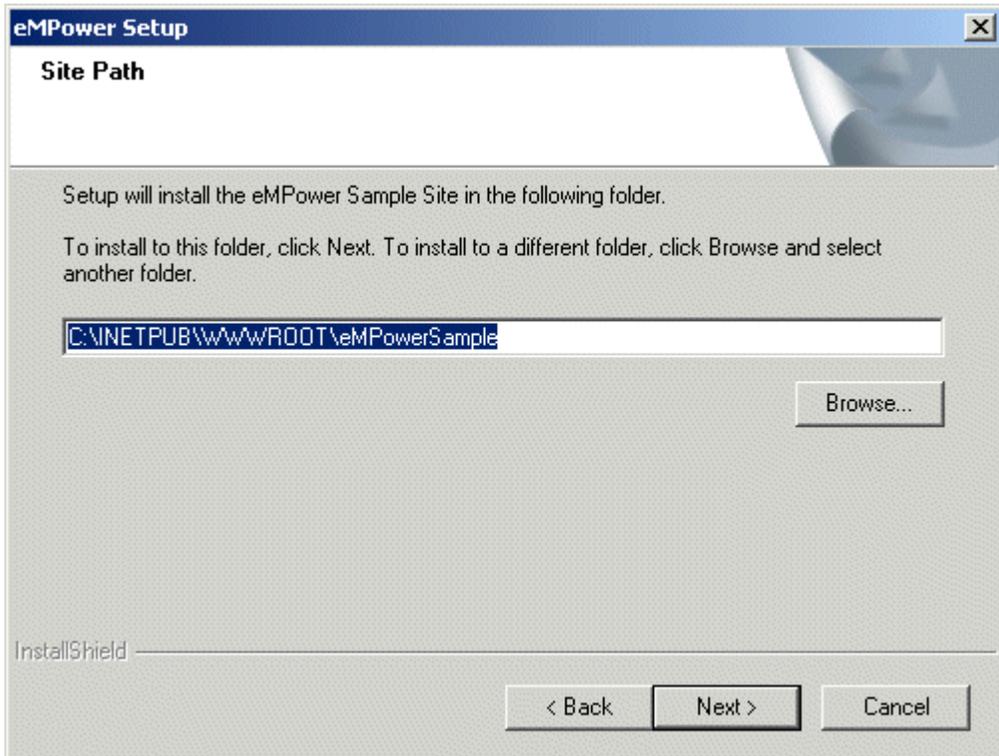
Once you have selected a setup type, click the Next button to proceed.

5. Once you have clicked the next button, you will see the following screen:



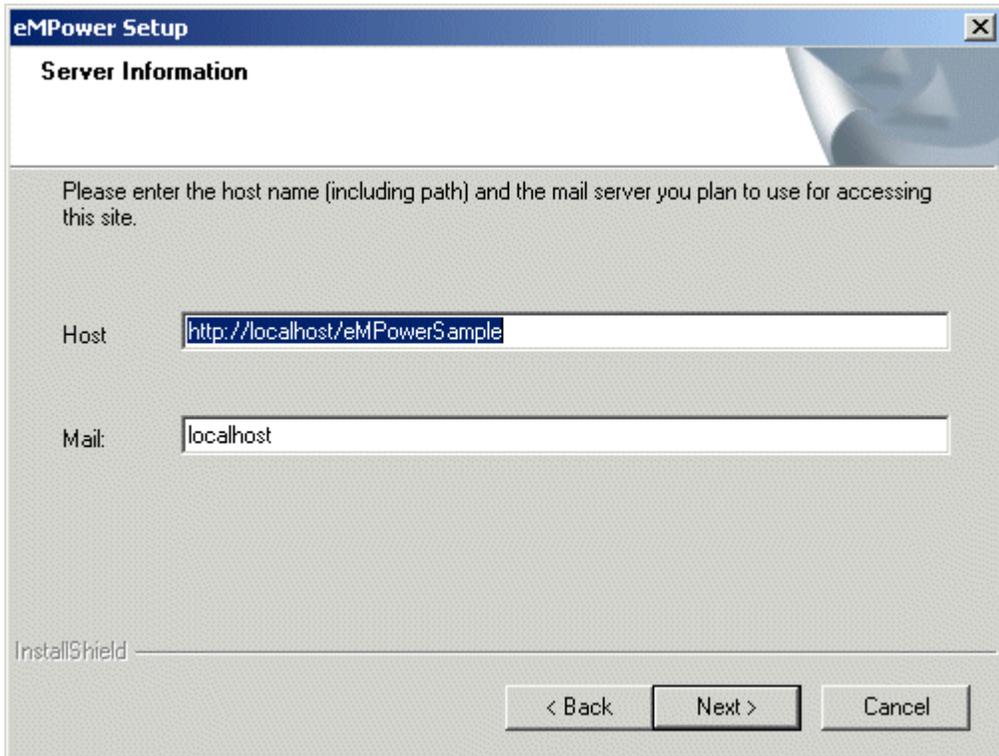
At this screen, you will be prompted to enter the physical path of your Web server's root directory. Either accept the default or enter a new path, then click Next to continue.

6. Once you have clicked the next button, you will be taken to the Site Path screen seen below:



At this screen, you will need to specify where you would like to install the eMPower sample site to. Either accept the default location, or browse for a new location. Once you have specified the location, click **Next** to continue.

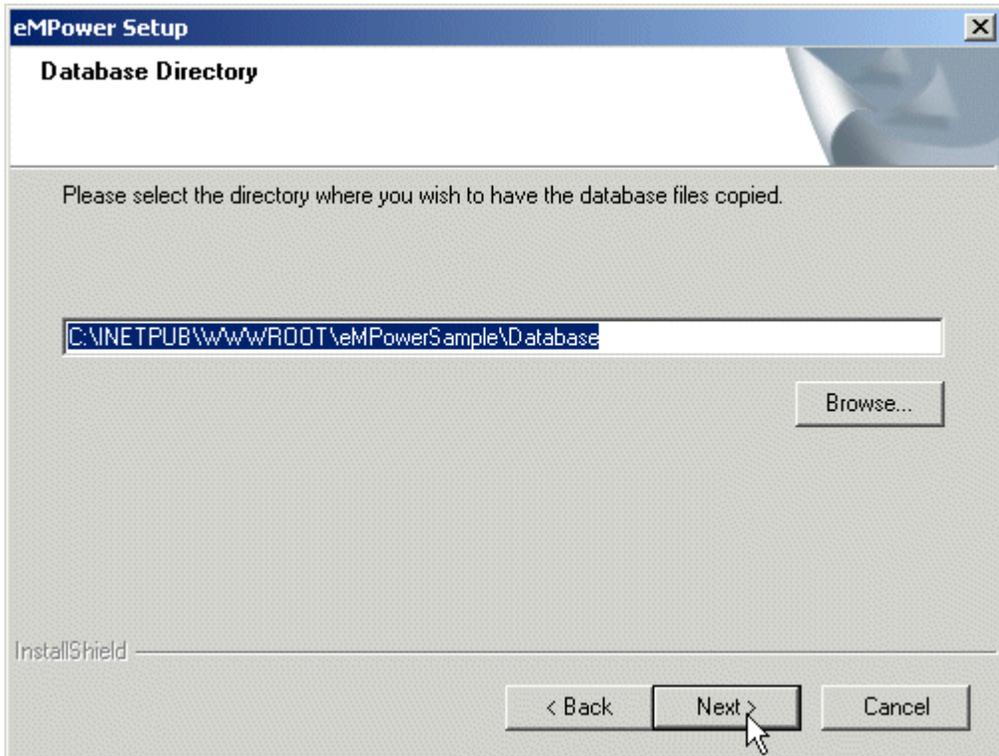
7. Once you have entered a site path and clicked next, you will be taken to the Server Information page seen here:



The screenshot shows a Windows-style dialog box titled "eMPower Setup" with a close button (X) in the top right corner. The main heading is "Server Information". Below the heading, there is a text prompt: "Please enter the host name (including path) and the mail server you plan to use for accessing this site." There are two input fields: "Host" containing "http://localhost/eMPowerSample" and "Mail" containing "localhost". At the bottom left, the text "InstallShield" is visible. At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

At this screen, enter the site path of the host and the mail server name in the proper fields. Either accept the defaults, or enter new values in the fields, then click the **Next** button to proceed

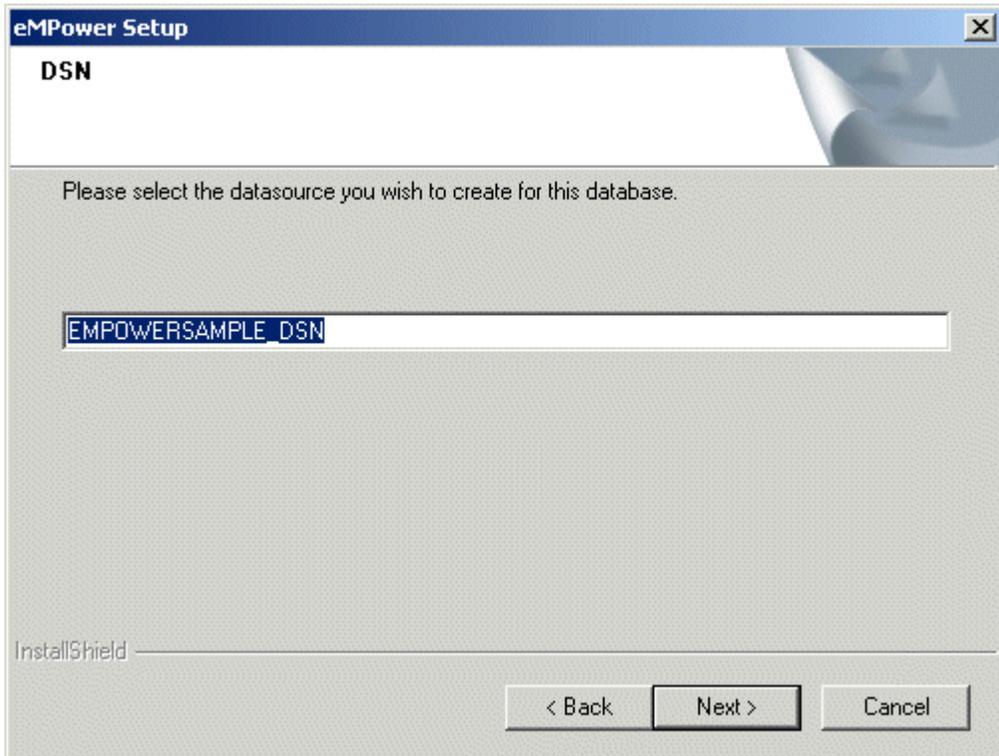
8. After you have entered the correct server information and clicked next, you will then proceed to the Database Directory screen seen here



At this screen, you will need to specify where you would like the database for the eMPower site to be installed to. Either accept the default or browse for a new location, then click **Next** to continue.

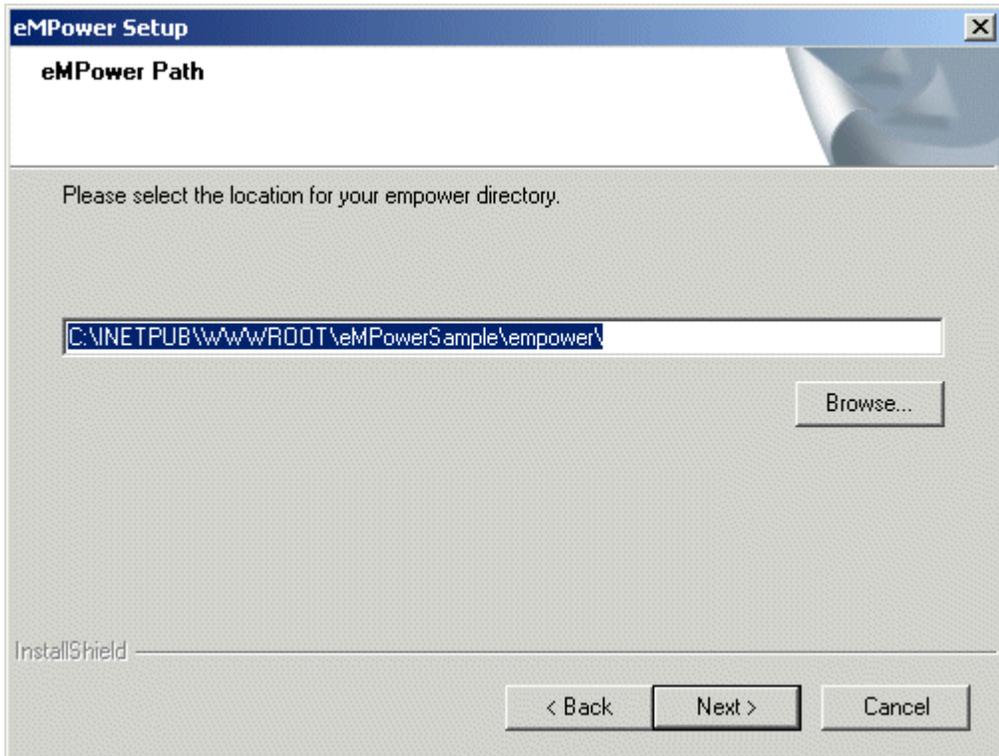
**NOTE** The eMPower installation will create an Access database. For information about setting up other types of databases to use with your Web site, see "Databases" on page 73.

9. After you have specified the location of the eMPower database and clicked next, you will then be taken to the DSN screen seen here



At this screen, you will be able to name the DSN for the eMPower database. Either accept the default or enter a new name, then click the next button to proceed.

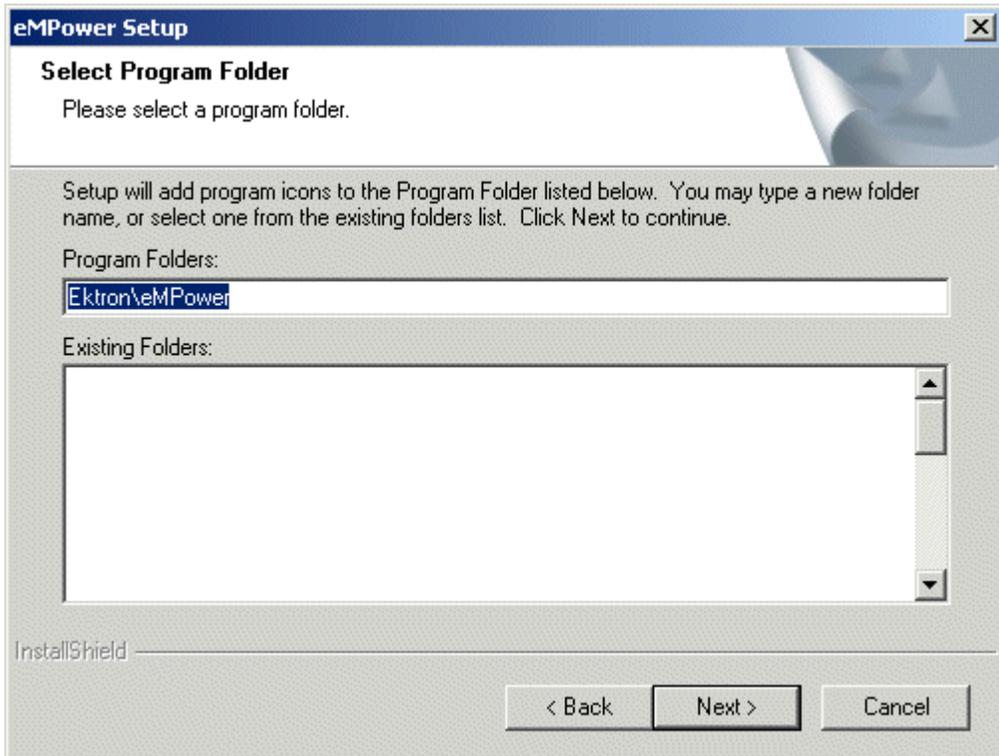
10. Once you have named the DSN and clicked the next button, you will be taken to the following screen.



At this screen, you will be asked where you would like to install the eMPower directory. This is the directory that contains all the necessary files for eMPower to function properly. Either accept the default or specify a new location, then click the next button to proceed.

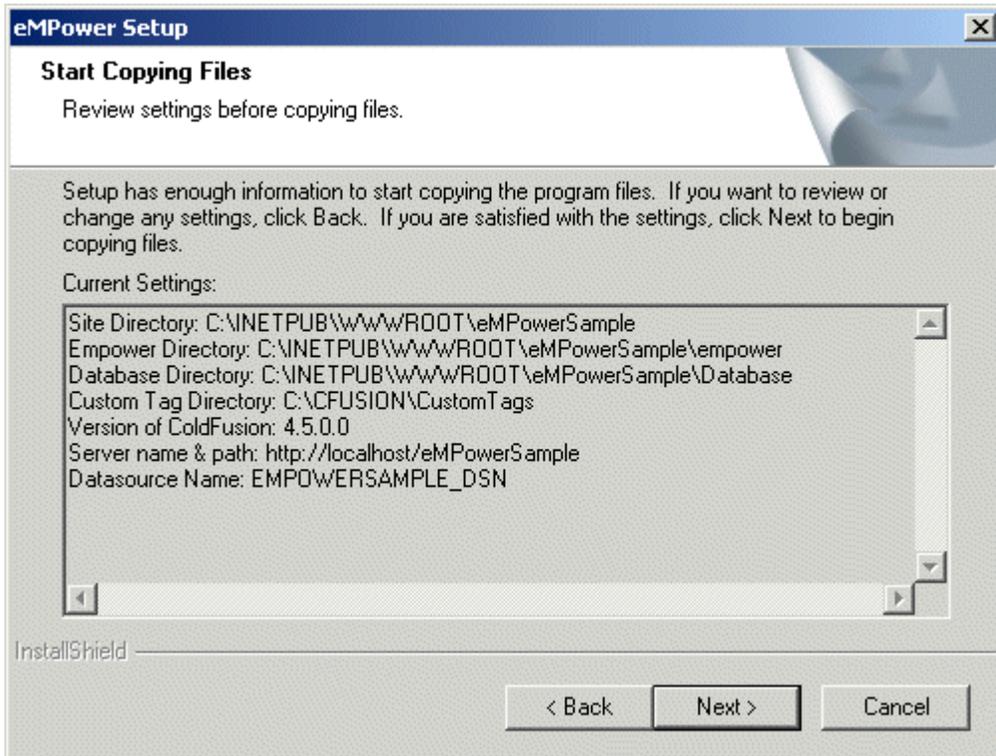
**NOTE** Regardless of where you place this directory, the folder name must always be `\empower\`

11. Once you have clicked next, the **Select Program Folder** dialog box appears.



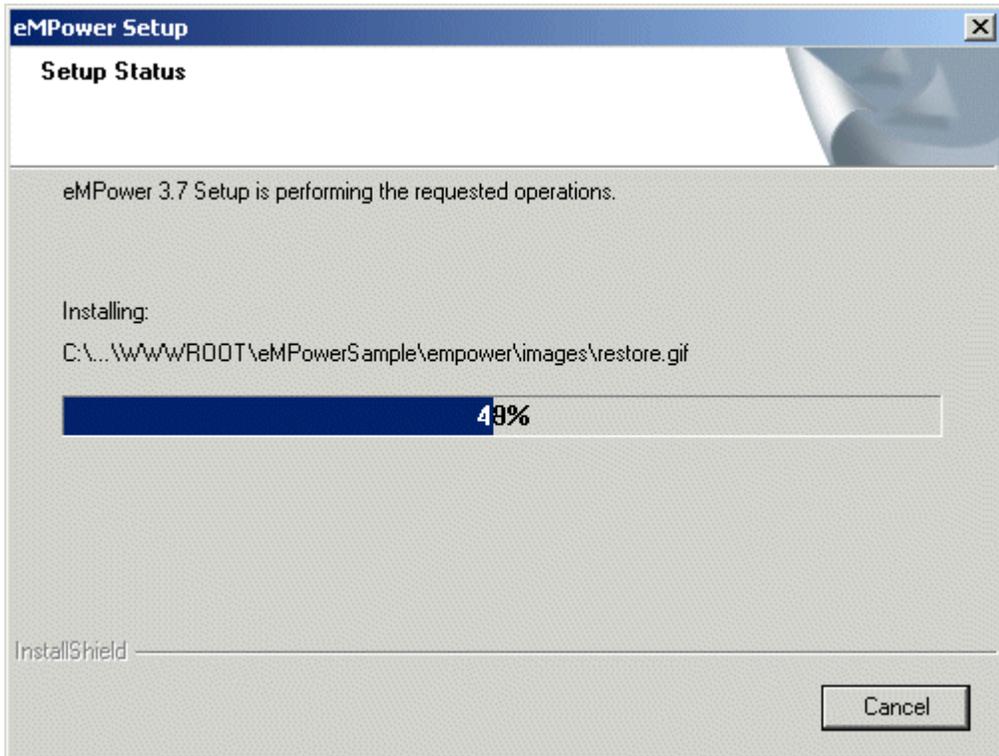
Either accept the default program folder or enter a new one, then click Next to proceed.

12. Once you click next, the Start Copying Files dialog box appears.



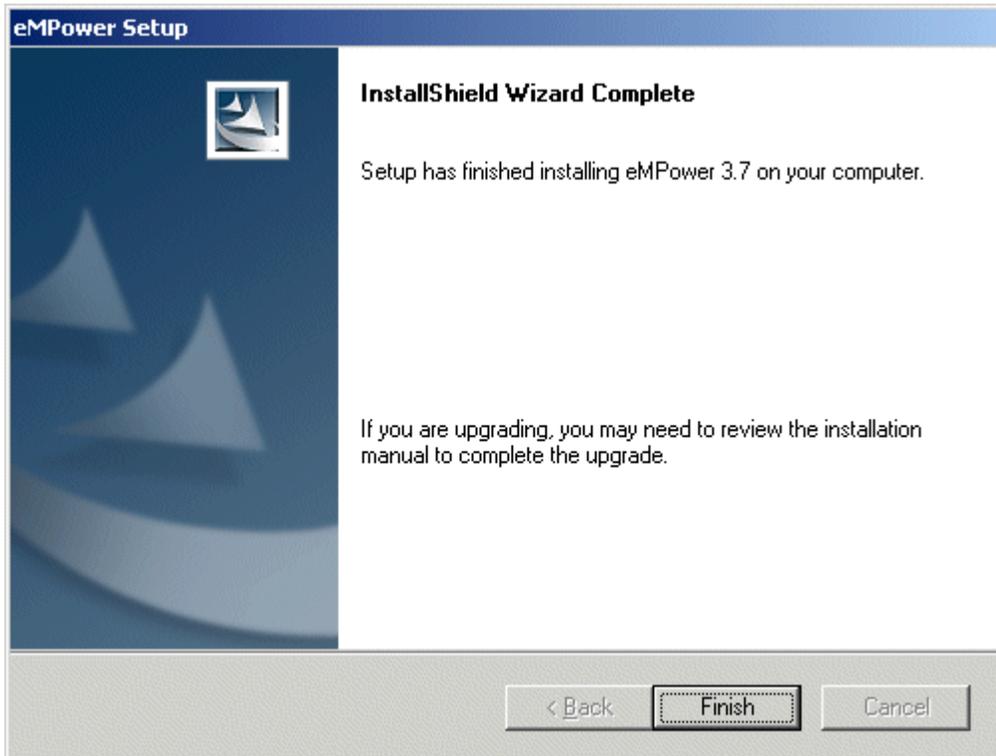
Review the settings in the following dialog box then click the Next button to install the eMPower files.

13. The **Setup Status** dialog box appears. A dialog box containing a status bar displays progress of the setup copying eMPower files.



14. Once the status bar reached 100%, then the installation will be complete and you will see the following screen.

**NOTE** If you are installing eMPower on a ColdFusion MX server, see "eMPower and ColdFusion MX" on page 47 for more information.



Once you are at this screen, you can click the Finish button to exit the installation.

## Restart ColdFusion Services

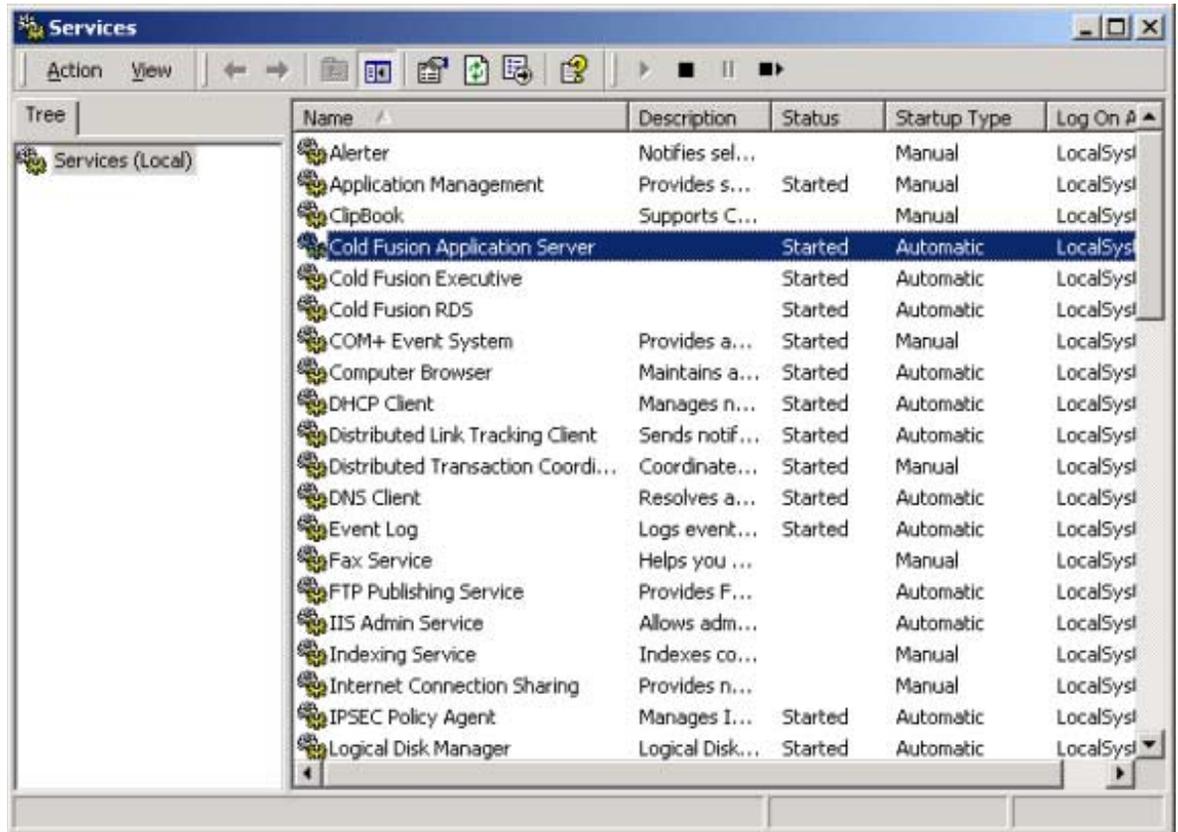
You may need to stop and restart all ColdFusion services if you are running an older version of ColdFusion.

To stop and restart ColdFusion services:

1. Follow the path:

**Start > Settings > Control Panel > Administrative Tools > Services**

You will see the ColdFusion services listed in the **Services** dialog, as shown below. Your services may vary from the ones shown, depending upon your system configuration.



2. Right-click **ColdFusion Application Server**, then point to **Start**.
3. Right-click **ColdFusion Executive**, then point to **Start**.
4. Right-click **ColdFusion RDS**, then point to **Start**.
5. Close all windows to exit **Administrative Services**.

## What's Next?

Skip ahead to "Entering Your eMPower License" on page 55 to continue with the installation.

# Installing eMPower on Linux or Unix

After completing the preparations detailed in the preceding chapter, “Pre-Installation Tasks,” you are ready to install the eMPower application.

## Requirements

This listed configuration is only a suggested one. The configuration shown was what Ektron has tested and found to work on a Linux & Unix configuration. However, Macromedia ColdFusion 4.51sp2 has defect fixes that are necessary to run eMPower.

- Red Hat Linux 6.2
- Apache 1.3.12
- ColdFusion 4.51sp2 for Linux
- eMPower Version 3.7

## Installing eMPower

### Installing Application Files

You will need the zip file that Ektron provides in order to install eMPower on a UNIX / Linux OS. You should have received a link in your email to download the zip file ‘eMPower.zip’.

When unzipping the eMPower.zip file please place the directories as follows:

Directory from Zip	Path to Install to
CustomTags/	/opt/bin/coldfusion/CustomTags/
eMPower/	/home/httpd/html/eMPowersample/eMPower/
SampleSite/	/home/httpd/html/eMPowersample/
Database/	On Windows Servers Only
Documents/	/home/httpd/html/eMPowersample/eMPower/documents/
Utilities/	/home/httpd/html/eMPowersample/eMPower/utilities/

**NOTE** Custom Tags in coldfusion/CustomTags/ not needed unless you are going to be using old templates from a previous install of eMPower.

**NOTE** You should unzip all sub directories according to the initial path specified in the zip file.

## ColdFusion Settings

### Setting Up the Datasource

In order for ColdFusion Server and the eMPower application to use the database, they need to connect using an ODBC type of connection. For a Linux & Unix operating system using ColdFusion, you should use the Merant Drivers provided with ColdFusion Server. You will need to additionally setup a database to user eMPower.

To do this, you will need to create a datasource that points to the eMPower database.

1. Go to the ColdFusion Administrator page on the Linux & Unix system.

**<http://localhost/cfide/administrator/index.cfm>**

2. Click on the link for **ODBC** under **Data Sources**.
3. Select the database you installed for eMPower.
4. When finished, select the **Create** button.

Your datasource connection will attempt to verify after creation. If your datasource fails, please see the ColdFusion documentation to troubleshoot the issue.

## Update the Physical Path to the Web Root

Several Places in eMPower require this path to be set. By default this path is set to c:\inetpub\wwwroot\eMPowersample. This needs to be changed to your web root path from your root.

1. Open the eMPower session manager file for you site
2. Set the value `request.ecm.eMPower.abs_path` to your site root (example: `request.ecm.eMPower.abs_path="/home/httpd/html/eMPowersample";`

## Configure ColdFusion Mail Server Settings

To set the address of the ColdFusion mail server, follow these steps:

1. Launch the ColdFusion Administrator application.
2. Click on the **Mail** link, under **Miscellaneous Settings** on the main page.
3. Enter the outgoing address of the mail server in the **Mail Server** field.

---

**NOTE** If you do not have an active mail server, please use a localhost or 127.0.0.1 address. eMPower requires this mail server configuration to exist.

---

# Troubleshooting

## Error When Uploading File or Image

### Error Occurred While Processing Request

**Error Diagnostic Information**

Error processing CFFILE

The directory specified in the DESTINATION attribute of the CFFILE tag (C:\inetpub\wwwroot\emplibary\ ) is not valid. The directory either does not exist or is not accessible by the ColdFusion service.

Date/Time: Mon Mar 19 10:04:39 2001

Browser: Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)

Remote Address: 192.168.0.253

HTTP Referrer: http://YOURSERVER/eMPower/libuploader.cfm?action=file

This error may be seen when using eMPower Version 3.7 on UNIX / Linux based platforms. When attempting to run it, ColdFusion cannot resolve this address because it does not exist on the file system.

By default, eMPower is setup to access the directory, "C:\inetpub\wwwroot\emplibary\". This tree structure is intended for Windows based web servers.

In order to use on a Unix / Linux based file system you will need to update the paths for File and Image Upload Paths in the Work Area Administrative Configuration. Your path may look like this: '/home/httpd/html/emplibary/'.

**Library****File Upload Path:****Image Upload Path:**

## CFFILE Not Able To Access File System

### Error Occurred While Processing Request

#### Error Diagnostic Information

Error processing CFFILE

The directory specified in the DESTINATION attribute of the CFFILE tag (/home/httpd/html/emplibary/) is not valid. The directory either does not exist or is not accessible by the ColdFusion service.

The error occurred while processing an element with a general identifier of (CFFILE), occupying document position (22:1) to (22:136).

Date/Time: Mon Mar 19 14:28:40 2001

Browser: Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)

Remote Address: 192.168.0.253

HTTP Referrer: http://YOURSERVER/eMPower/libuploader.cfm?action=file

This error may be seen when using eMPower 2.5-3.x on UNIX / Linux based platforms. The problem is that the directory does not have the appropriate privileges to write to the file system; therefore, ColdFusion is returning this error. The directory owner may be 'root' or a superuser of some kind.

To resolve the problem, you will need to change owner for that directory or allow the user (your web server) permission the ability to write to that directory. The easiest way to do this is to change the owner of the owner of the 'emplibary' directory to 'nobody'.

At a linux shell prompt,

```
>chown nobody.nobody /home/httpd/html/emplibary
```

This will change the owner of the 'emplibary' directory to 'nobody', allowing access for your web server to run the CFFILE tag in ColdFusion.

Please see the documentation for your particular web server on how to change the default permissions for the directories within your web root and other solutions.

The following table includes a list of the files and their descriptions that are copied during the installation to your system:

File	Description
application.cfm	Required file needed in root of your Website. See "Modifying Your Application.cfm", when setting up your site.
index.cfm	Sample Home Page. Demonstrates search and single page content.
eMPower.mdb	MSAccess database. Note that a SQL database is recommended.
Template1.cfm	Sample template for single document. Pass to the template the doc_id that you need to use by /ecm/template1.cfm?doc_id=6.
Template2.cfm	Sample template for multi-doc via a URL parameter. Pass doc_type_id/ecm/template2.cfm?doc_type_id=26
Template3.cfm	Sample template. Pass the parent_doc_id of which slide presentation. /ecm/template3.cfm?parent_doc_id=18
SearchResult.cfm	Sample Search Results page.
wwwroot\ecm\images	This subdirectory contains the images for the demo application only.
wwwroot\ecm\documentation	The subdirectory contains the PDF files for the Installation Guide and the User Documentation.
www\ecm\eMPower	
CFUSION\CustomTags ECMxxx.cfm	<p>The files used by eMPower that are installed in the ColdFusion Custom Tags directory all start with ECM, Ektron Content Management.</p> <p>Any page needs to include this initialization.</p> <pre>&lt;cfinclude template="/eMPower/templates/initsession.cfm"&gt; &lt;cfparam name="url.doc_status" default="A"&gt;</pre>

## What's Next?

Skip ahead to "Entering Your eMPower License" on page 55 to continue with the installation.

# eMPower and ColdFusion MX

With the release of ColdFusion MX came changes for how you must configure your eMPower DSN. Since ColdFusion MX uses JDBC to connect to datasources, you must perform one extra step when installing eMPower on a server that uses ColdFusion MX.

Your two choices are as follows:

- Create or use your existing ODBC DSN, and create an ODBC socket within the ColdFusion Administrator for JDBC to use
- Create a brand new JDBC DSN for eMPower

Both of these methods will be explained in the following section.

## Creating an ODBC Socket

To create an ODBC socket in the ColdFusion MX administrator console, follow these steps:

1. Begin by logging into your ColdFusion MX administrator console.
2. Once logged in, click on the Data Sources link in the navigation menu on the left side of the screen.



- Next, enter the name of the DSN that will use the ODBC socket in the “Add New Data Source” text field.

- From the drop down list below the text field, choose ODBC Socket from the list.

- Finally, click the Add button at the bottom of the “Add New Data Source” box.



- Follow the remaining steps according to ColdFusion MX.

**NOTE** For further information about ColdFusion MX, please consult your ColdFusion MX user manuals.

Once the ODBC Socket has been created for the eMPower DSN, you are ready to begin using eMPower.

## Creating a New JDBC DSN

Creating a new DSN for eMPower involves two steps:

- Creating a JDBC DSN in ColdFusion MX
- Updating your session manager with the new DSN

## Creating a JDBC DSN in ColdFusion MX

To create a new JDBC DSN in the ColdFusion MX administrator console, follow these steps:

1. Begin by logging into your ColdFusion MX administrator console.
2. Once logged in, click on the Data Sources link in the navigation menu on the left side of the screen.

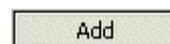


3. Next, enter a name for the DSN in the “Add New Data Source” text box.

4. From the drop down list, choose the driver type for the database.

Actions	Data
	cfsnip
	Comp

5. Once you have chosen the driver type, click the add button.

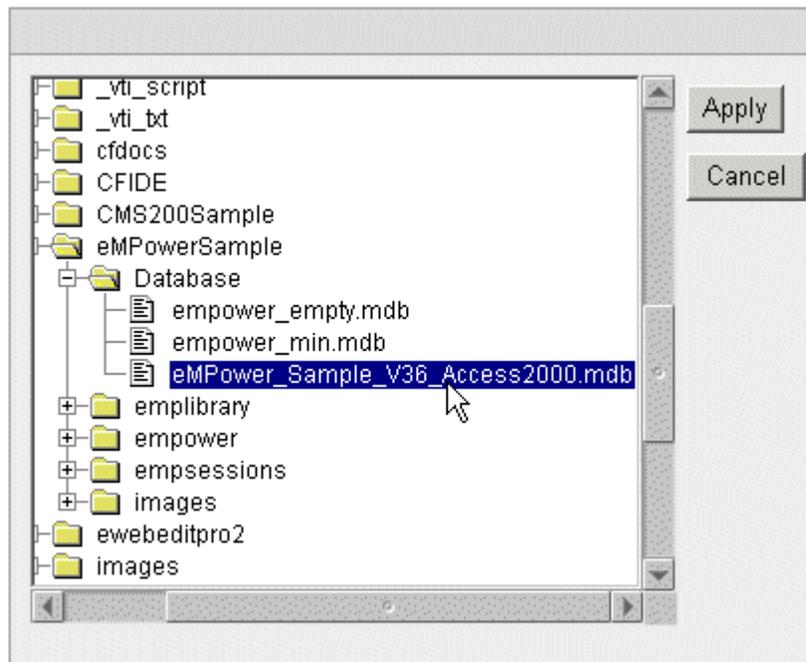


6. Once you have clicked on the add button, you will be taken to the next page with the following form:

The screenshot shows the "Microsoft Access Data Source : eMPowerDSN" dialog box. It contains the following fields and controls:

- CF Data Source Name: eMPowerDSN
- Database File: [Empty text field] with a "Browse Server" button to its right.
- System Database File: [Empty text field] with a "Browse Server" button to its right.
- Use Default Username:
- Description: [Empty text area]
- Buttons at the bottom: "Show Advanced Settings", "Submit", and "Cancel".

7. To choose the database to point to, click the browse server button next to the database file text field.
8. At the next page, navigate through the folder control until you find the eMPower database that the DSN will point to.



9. Once you have selected the database, click the apply button on the right side of the folder tree.
10. Finally, click the submit button to add the new DSN to ColdFusion.

---

**NOTE** For further information about ColdFusion MX, please consult your ColdFusion MX user manuals.

---

## Updating the eMPower Session Manager

Once the JDBC DSN has been created in ColdFusion MX, you will then need to update your eMPower session manager. To update your session manager for the new DSN, follow these steps:

1. Open the file `empower_sample_sessionmanager.cfm` which is located in the `\empsessions` directory under the main eMPower root folder.
2. Scroll down the file to line 93 where the line begins with `"request.ec.db.dsn..."`

```
request.ecm.empower.relative_path=request.ecm_empower_relative_path;  
request.ecm.db.dsn="eMPowersample_dsn";  
request.ecm.db.dbusername=" ";  
request.ecm.db.dbpassword=" ";  
request.ecm.db.dbname="ACCESS";
```

3. Change the value to the new DSN that you created in ColdFusion MX.

```
request.ecm.empower.relative_path=request.ecm_empower_relative_path;  
request.ecm.db.dsn="eMPowerDSN";  
request.ecm.db.dbusername=" ";  
request.ecm.db.dbpassword=" ";  
request.ecm.db.dbname="ACCESS";
```

4. Once you have changed the DSN, save and close the session manager file, and you are ready to use eMPower!

# Initializing the Sample Site

Once you have successfully installed eMPower onto your web server, you will need to initialize the sample site. This is an automatic process that is performed the first time you visit your new eMPower sample site. The process only takes a few moments and the result is configuring all the pictures and data to display properly.

## Accessing the Sample Site

To access the sample site, follow the path:

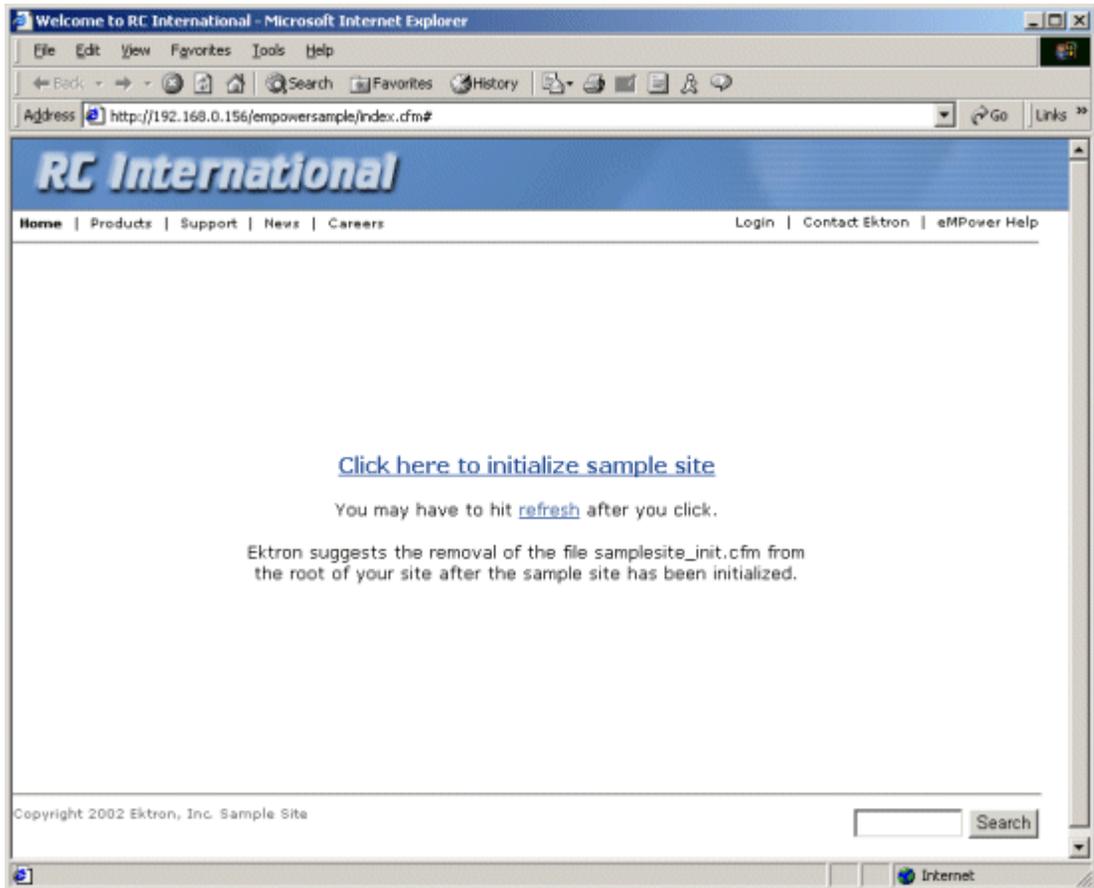
**Start > Programs > Ektron > eMPower > eMPower Sample Site**

---

**NOTE** You may also enter the URL of the sample site into your browser to access the sample site.

---

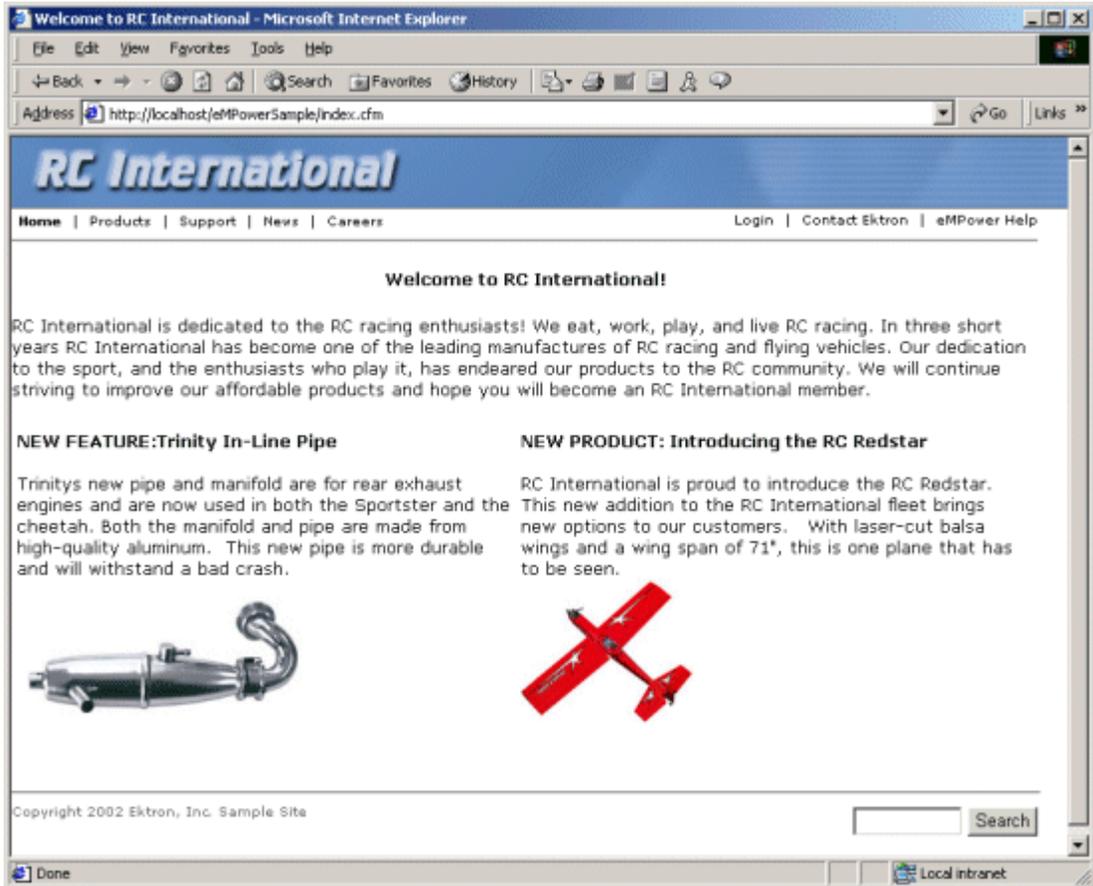
If you follow this path correctly, you will see the sample site landing page as seen below.



Once you arrive to this page, you are ready to initialize the sample site.

## Initializing the Sample Site

To initialize the sample site, just click on the link that says “Click Here to initialize the sample site.” After a few moments, you will see the following.



# Entering Your eMPower License

When you purchase eMPower from Ektron, Inc. an email message containing the eMPower license key is immediately sent to the address of record.

To use eMPower, this license key must be entered into the Configuration page.

1. Click the eMPower icon on your desktop to launch eMPower.
2. Navigate to the eMPower sample site login page by clicking on the login link near the top right side of the Web page.



**Important!**

3. At the next page, click the login button located in the middle of the page.



4. Log into eMPower using the following username/password combination:

**User = Admin**

**Password = Admin**



- Once you successfully login, you will then see a Workarea button on the page.

Work Area

Click this to access the Administrator Workarea.

**NOTE** The **Administrator Work Area** will open in a separate window. This area is explained in detail in the eMPower Administrator Manual, Version 3.7.

- From the **Administrator Work Area**, click **Setup** on the menubar.
- Then click on **Configuration** to open the eMPower **Configuration** page.

**eMPower Configuration Build 3.7**

Owner:  DataSource:

Server Path:  Default Language:

Absolute Path:  User Authentication:

Email Domain:  Database Type:

Mail Servers:  State Management:

Default Style Sheet:

License Key(s):

**Database**

Username:  Password:

**Editor**

Max Content Size:  bytes (blank for no limit) AutoDetect Microsoft Word 2000 content:

HTML Filter:  well formed HTML  xhtml  minimal Show Style Sheet Info:

Remove tags, not content within:  Remove tags and content within:

Remove Attributes:  Remove tags with no attributes:

Remove End tags:

**Library**

File Upload Path:  Extensions:

Image Upload Path:  Extensions:

**Other**

Content Menus:  Extensions:

Insert Tags:  CFFILE Mode:

**Update Setup**

8. Enter your license(s) keys in the **License Key** fields. You may enter up to three license keys, depending upon your installation.

**License Key (s):**

Insert License Key Here...

9. Click **Update Setup** to save and return to the **Administrator Work Area**.



## You Are Ready to Explore eMPower!

You are now ready to use eMPower.

Please refer to the following documents for information on eMPower's many content management features:

- eMPower *Administrator Manual, Version 3.7* for information on creating templates, content groups and user groups.
- eMPower *User Manual, Version 3.7*, for information on the content and publishing features.

# NT/LDAP Authentication

eMPower Version 3.7 supports NT and LDAP authentication. The scripts to run this authentication are not included in the standard package. You will need to purchase the package from Ektron at [http://www.ektron.com/download\\_center.cfm](http://www.ektron.com/download_center.cfm)

If you decide to purchase and download the package, you can use the remainder of the chapter to help set up the authentication module.

## Introduction

eMPower has two security login capabilities available. These login types are LDAP (*Lightweight Directory Access Protocol*), supported through the ColdFusion CFLDAP tag, and WinNT authentication, supported through Ektron's custom .dll file. eMPower Version 3.7 continues to support its own database authentication capability available in previous releases.

Since LDAP is supported using CFLDAP via Macromedia ColdFusion, the implementation should be compatible with a multitude of LDAP servers. Ektron has tested eMPower's LDAP with Microsoft Exchange 5.5 on WinNT 4.0, and Active Directory's LDAP interface on Win2000. Other LDAP servers which should function with eMPower's LDAP configuration include Netscape and Novell.

eMPower's WinNT authentication works in conjunction with Microsoft IIS security and is accessed using Microsoft's ADSI (*Active Directory Systems Interface*). This implementation has been tested with both Win2000 and WinNT 4.0. WinNT requires the download and installation of ADSI version 2.5. This is a free add-on package from Microsoft.

## What This Chapter Covers

This guide is a comprehensive document for the installation and configuration of eMPower for an NT or LDAP authentication schema. It describes what is required to use eMPower with some different authentication schemas as well as how to use such technology once implemented.

## What This Chapter Does Not Cover

This guide does not cover how to install, setup, and configure NT or LDAP securities on any type of network. Because of the complexities involved in setting up either of these, Ektron will not cover or support the activity thereof. Users implementing such technologies are strongly advised to research them prior to installing and setting up eMPower to use NT or LDAP.

## System Requirements

The following platforms are supported:

### **WinNT 4.0 (for NT Authentication only)**

- Service pack 6 or higher
- Option pack 4 or higher
- ADSI 2.5 full version. Available at Microsoft's download site: <http://www.microsoft.com/NTWorkstation/downloads/Other/ADSI25.asp>

### **WinNT 4.0 (for LDAP Authentication only)**

- Service pack 6 or higher
- Option pack 4 or higher
- Exchange 5.5

### **Windows 2000 (NT or LDAP authentication)**

- Active Directory must be installed

---

**NOTE** Although both the Netscape and Novell LDAP implementation for Windows or Unix/Linux should function with eMPower's LDAP implementation, they have not been tested by Ektron.

---

## Installation

Because the eMPower Authentication options are add-ons to the product, you will need to ensure that you have already installed eMPower version Version 3.7 or greater prior to installing this software. You can find your version of eMPower at the top of the administrator configuration Workarea.

### Installing the files

Unzip the files from the zip file that you downloaded for the authentication module into the following directories:

Files	Path to Install to
<b>verifyldap.cfm</b> and <b>verifyNT.cfm</b>	..\eMPower\
<b>ecmntauthentication.cfm</b> and <b>empldap.cfm</b>	..\eMPower\customtags\
ektronauthenticate.dll	..\winnt\system32\
AuthenticationManual.pdf	..\eMPower\documents\

---

**NOTE** The **ektronauthenticate.dll** file is not required if you are running on a Unix or Linux system.

---

### **Registering ektronauthenticate.dll for NT Authentication**

If you are running on a Windows 2000 or NT 4.0 system and intend to use WinNT authentication, you will need to register **ektronauthenticate.dll** on the system that you are running eMPower on.

1. Open a DOS command prompt on the system running eMPower.
2. Register the file using the following command:  
**>regsvr32 c:\winnt\system32\ektronauthenticate.dll**
3. You should see a verification message box for the registration of that file.

If the registration failed, try entering the full path to the program regsvr32.

For example:

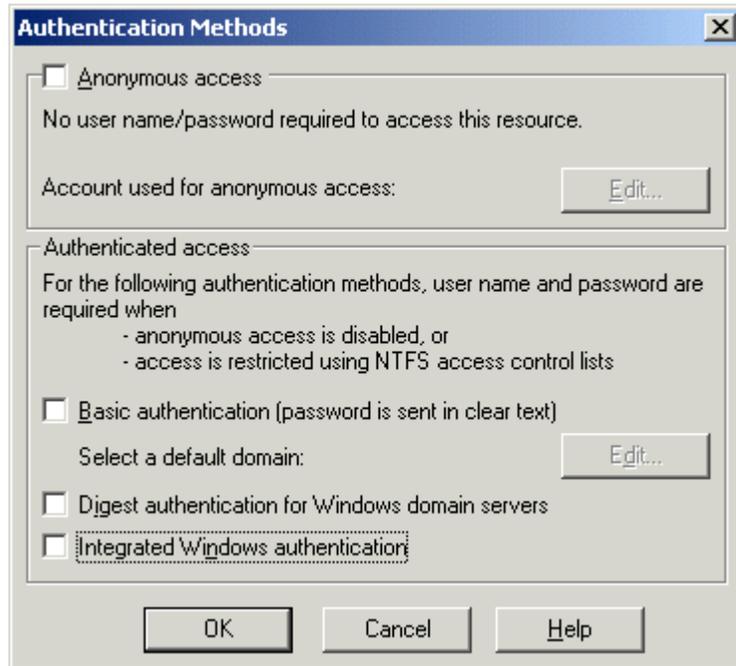
```
c:\>winnt\system32\regsvr32
```

## Configuring Your Web Server

If your system is Windows 2000 or NT 4.0, and you intend to use WinNT authentication, you **must** enable IIS to use either *Basic Authentication* or *Windows Integrated Authentication* on the virtual eMPower directory. The *Windows Integrated Authentication* will only work with IE 4.01 or greater users. If using Netscape as a client, *Windows Integrated Authentication* will not work. Netscape only supports clear text authentication.

Certain directories within the eMPower virtual directory will still need anonymous access so that users will be able to properly view the Web site and access the login function.

1. In the IIS Admin Console, select the eMPower directory from your site.
2. Select **Properties** from the **Action** menu.
3. Select the **Directory Security** tab from the dialog started in step 2.
4. Click on the **Edit** button from the *Properties* dialog. You should see a dialog similar to **Figure 1**.
5. Select either **Basic** or **Integrated** for your desired Authentication Method. You may need to deselect **Anonymous** as it is usually set by default.
6. Select **Anonymous access** as an authentication method for directories: *jslib*, *csslib*, and *images*, within the eMPower directory.



If you are running a Windows NT 4.0 system and wish to use WinNT authentication, then you must install the ADSI component. See the System Requirements for the Microsoft download address.

**NOTE** If you set IIS security on the physical eMPower directory, all Web sites using eMPower will be required to login to IIS before using the eMPower login. This should be avoided. If you are running multiple sites using eMPower, you should setup the securities for each virtual directory to avoid conflict.

## Configuring eMPower

### Enabling Authentication Services

You must have completed the previous sections in this guide prior to continuing the configuration of eMPower. Please ensure that you have completed the *Installation* and *Configuring Your Web Server* sections of this manual before continuing.

To enable NT and LDAP as authentication services:

1. Open the session manager file from your empressions directory (eMPower\_sample\_sessionmanager.cfm)
2. Edit the request.ecm.eMPower.authop value to "turnedon"
3. Save the file

When you open the admin configuration in eMPower for that site, you will see the options in the *User Authentication* list as shown below.

Work Area of Application Administrator - Microsoft Internet Explorer

eMPower Work Area

Return to Menu

eMPower Configuration Build 3.2.0.01

Owner:  DataSource:

Server Path:  Default Language:

Email Domain:  User Authentication:

State Management:

License Key(s):

**Database**

Username:  Password:

**LDAP/WinNT+**

Type:  Windows 2000  Exchange 5.5  Netscape  Novell  Other

Server\*:  Start\*:

Username\*:  Password\*:

Port:  Timeout (seconds):

Scope:  Anonymous\*:

Column for Username:  Column for Email:

Column for First Name:  Column for Last Name:

Column for Unique Identifier:  [Verify Authentication Connection](#)

**Editor**

Max Content Size:  bytes (blank for no limit)

HTML Filter:

Done Local intranet

## Options Explained

The following explains the additional options that will be available once you have enabled authentication services for eMPower.

The table below describes the settings added to your configuration window. The parameters marked with an asterisk are required for using NT authentication. The rest of the parameters only apply to LDAP configurations.

Parameter	Description
User Authentication	Database/LDAP/WinNT: Selects eMPower's authentication method. If you are running on a Linux or Unix system the WinNT selection will not be present.
Server	<b>LDAP/WinNT:</b> The DNS name or IP address of the computer running the LDAP service.
Start	<p><b>LDAP:</b> The string defining the start of the search within the LDAP schema. This usually contains the OrganizationalUnit (OU), the Organization (O), and the Domain Component (DC). Example: If your domain was test.mysite.com, you would use: DC=test,DC=mysite,DC=com or CN=Recipients,CN=MYSITE,O=TEST</p> <p>The actual structure of this will depend on how your LDAP service is configured.</p> <p><b>WinNT:</b> The string defining the start of the search within the WinNT schema. This is usually limited to a group name. Ex: "engineering".</p>
Username	<b>LDAP/WinNT:</b> The username sent to the server during authenticated LDAP or WinNT data requests. Not used when Anonymous is set to YES.
Password	<b>LDAP/WinNT:</b> The password sent to the server during authenticated LDAP or WinNT data requests. Not used when Anonymous is set to YES.
Port	<b>LDAP Only:</b> The port used to communicate with the LDAP server. Default is 389.
Timeout	<b>LDAP Only:</b> The amount of time that ColdFusion will allow for the LDAP server to respond. Default is 60 seconds.
Scope	<b>LDAP Only:</b> This instructs LDAP to search for users in the selected Start location only, BASE setting, or the Start location and one level beneath, ONELEVEL setting, or the Start location and all levels beneath, SUBTREE setting.

Parameter	Description
Anonymous	<b>LDAP/WinNT:</b> Set to inform eMPower to use anonymous login or to use an authenticated login when communicating with LDAP or WinNT server. When set to YES the username and password discussed above are not sent to the server.
Column for Username	<b>LDAP Only:</b> This is the fieldname within the LDAP database schema for the username. Default is "samAccountName" for Windows 2000 and "uid" for all others.
Column for Email	<b>LDAP Only:</b> This is the fieldname within the LDAP database schema for the user's email address. Default is "userPrincipalName" for Windows 2000 and "mail" for all others.
Column for First Name	<b>LDAP Only:</b> This is the fieldname within the LDAP database schema for the user's First Name. Default is "givenName".
Column for Last Name	<b>LDAP Only:</b> This is the fieldname within the LDAP database schema for the user's Last Name. Default is "sn".
Column for Unique Identifier	<b>LDAP Only:</b> This is the fieldname within the LDAP database schema for the user's Unique Identifier, commonly referred to as the Distinguished Name. Default is "dn".
Verify Authentication Connection	<b>LDAP/WinNT:</b> Used to test the parameters entered into the Setup page prior to updating the eMPower session manager file.

If you are using NT authentication, you will only need to:

1. Select the type of *User Authentication* (NT or LDAP).
2. Select the *Type* of Configuration for the Authentication chosen (Windows 2000, Exchange 5.5, etc.).
3. Enter the *Server DNS* name or IP address.
4. Enter the *Start String* if required.
5. Select any other data that needs to be adjusted for your configuration.
6. Select the Verify Authentication Connection.

If your configuration is valid, you will see the following confirmation message:

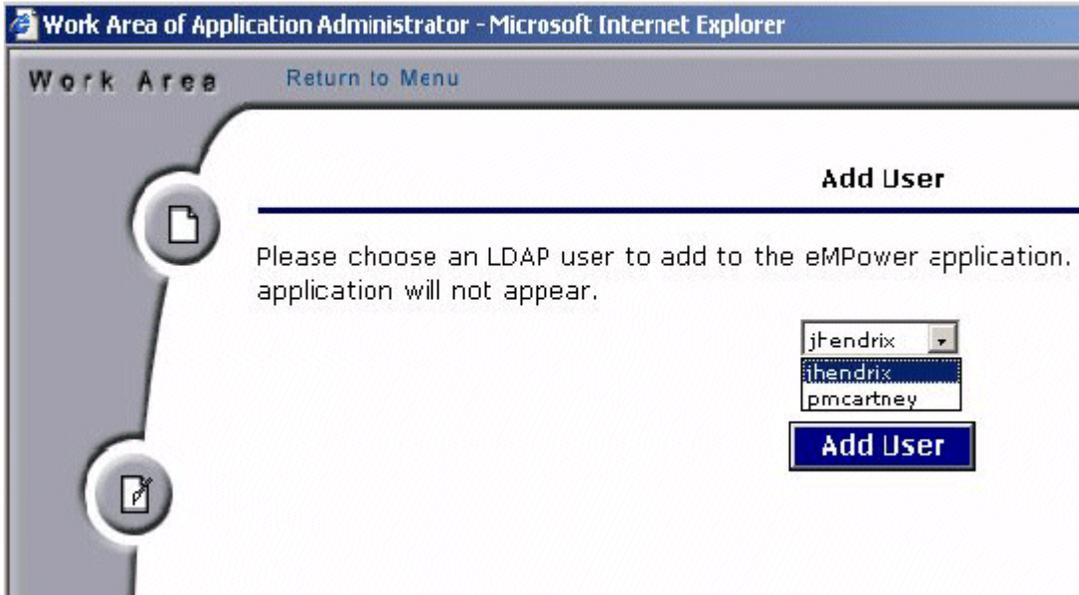


If you receive an error message, please refer to the troubleshooting section of this guide for more information.

**NOTE** The successful completion of the connection test to the LDAP or WinNT server is extremely important. All LDAP authentication services require the server connection. If this connection fails you will be unable to login to eMPower.

## Adding NT/LDAP Users to eMPower

Once you have selected LDAP or WinNT as your authentication type, you **must** add a new user by following the path **User > Add** in the *Administrator Workarea* of eMPower menu **before** logging out of eMPower. If you fail to add an LDAP or WinNT user as an eMPower administrator, you will not be able to log back into and administer eMPower.



To add a user to eMPower from an NT or LDAP configuration:

1. Select **Users > Add From the Administrator Workarea**.
2. Select the user you wish to add as shown in the image above.
3. Edit the user parameters (*First Name, Last Name, Password, etc.*).
4. Save the changes.

This user will now be allowed to login to eMPower.

All users must be added this way to ensure that they are in the eMPower database. Although eMPower does require that you store the username in the database, it does not store the password used for NT or LDAP. For this reason, the users will not be able to edit their passwords from eMPower.

#### NOTE

When using NT Authentication and adding a new user, the order of first and last name could be mixed up due to the varying configurations. This can be set in the session\_manager file. Set request.ecm.eMPower.authfirstname to blank to re-order the names from first to last. When set to "first," the initial name that is returned is the person's first name.

## Using NT/LDAP Authentication

The concept of using NT or LDAP for authentication will allow your network privileges to be used for your eMPower login. Once eMPower is properly configured to NT or LDAP, your browser should be configured accordingly.

## Using NT Authentication

With a valid username and password on the domain that eMPower is configured to, your user capabilities will be transparent. The only restriction is that they will not be able to edit their profile username or password. Usernames and passwords are from your NT Domain.

### Logging In

When you select the login button for eMPower, you may be prompted with a dialog from the browser for a username and password. This is generated from the IIS request to your browser to authenticate. You will need to use your username and password for the selected domain that the site is using for authentication.

### Internet Explorer

MS Internet Explorer can be setup to automatically use the username/password of the user logged into the system. This is a very convenient feature for eMPower users as it allows them to quickly login.

## Using LDAP Authentication

With a valid username and password on the LDAP services that eMPower is configured to, your user capabilities will be transparent. The only restriction is that users will not be able to edit their profile username or password. Usernames and passwords will be used from your LDAP service. Like NT Authentication, the password is stored in your LDAP configuration and not in the eMPower database.

---

**NOTE** If you need to switch back to DB authentication, then, all passwords for the usernames that you entered while using NT or LDAP will be the same as their usernames (ex. The password for username jdoe will be jdoe).

---

## Troubleshooting

The following is a collection of possible errors and issues that may be seen while installing, configuring, or using the NT and LDAP features.

### Permission Denied



When verifying NT, and your credentials may be incorrect or you may not have the proper permissions than what is expected from your server's configuration you will see the error shown above. Unfortunately, eMPower cannot detect external security issues and you will need to troubleshoot at the server that NT or LDAP is installed to.

### The LDAP Connection Has Not Been Verified



This problem may occur when you are running the test to verify if LDAP can connect with the supplied parameters being passed.

This is a generic error message produced when connections could not be made. This could be due to the following reasons:

- Network not connected
- User does not have appropriate permissions to view an LDAP users list
- LDAP server or services not found or functioning

## Automation Error



ADSI error. More than likely it is from an invalid login session due to a connection error.

## Login Button Showing Up as Broken Image



This error may occur because anonymous permissions are not enabled for the images, jslib, and/or csslib directories. See the section in this manual titled *Configuring Your Web Server* for information on how to appropriately set the permissions for directory security.

## Cannot Save Changes to Anything In The Admin Views

If you cannot save anything in the eMPower Workarea, you will need ensure that you have appropriate permissions on the eMPower virtual directory. IIS Site permissions are not allowing form variables to execute for a non-authenticated user. This can occur when you have setup IIS to use NT Integrated Authentication and you have eMPower set to a different authentication schema.

## Cannot Login to eMPower Using Admin / Admin

If NT or LDAP was selected, the administrator should have created an eMPower administrator user from the NT or LDAP list provided. To fix this, go to the site's session manager file and switch the value of *request.ecm.eMPower.sec\_type* to "DB". You may then enter the site as a known db user to re-configure your NT / LDAP user to be an administrator.

## Last and First names are being entered in the wrong order

Because of the varying configurations, the order of the first and last names may not be known. For this reason, eMPower cannot assume that the names will be in a certain order. By default it is set to receive the user's first name as the first of the two names. However, you can configure the interception of the names to receive the last name as the first of the two. You can do this by setting *request.ecm.eMPower.authfirstname* attribute in the sites session manager file to blank. For example:

```
request.ecm.eMPower.authfirstname="";
```

## Switching back to DB authentication

You can switch back to DB authentication at anytime. However, it is important to know that all user passwords are stored by default as their username when users are added as NT / LDAP users. eMPower does NOT store the WinNT or LDAP passwords for users.

# Getting Started

## Using eMPower

After you have completed the eMPower installation, refer to the *eMPower Administrator Manual, Version 3.7* for detailed information on using the eMPower content management system.

## Other Options

Aside from installing eMPower, you also have the option of choosing a different database to run eMPower on. For more information about databases, continue with this manual.

If you are interested in using eMPower for Hosting, continue with this manual as well.

Otherwise, continue with the eMPower Administrator Manual.

# Databases

Not only is eMPower supported on three major operating systems, it also supports five different database platforms including:

- **Microsoft Access**
- **Microsoft SQL Server** (see "Setup for MS-SQL" on page 74)
- **MySQL** (see "Setup for MySQL" on page 79)
- **Oracle** (see "Setup for Oracle" on page 95)
- **Sybase** (see "Setup for Sybase" on page 88)

In the next few chapters, we will be looking at how to setup eMPower to support each of these databases.

By default, eMPower creates a MS Access database onto your system. You do not need Access running on your system in order to use eMPower. The following sections describes how you will be able to create different databases to use eMPower on.

---

# Setup for MS-SQL

This chapter is to assist in the setup of eMPower for an MS-SQL database.

## Prerequisites

Before you set up eMPower to run with an MS-SQL database, it is recommended that you have at least this listed configuration. This listed configuration is only a suggested one. The configuration shown was what Ektron has tested and found to work on a Windows configuration. However, Macromedia ColdFusion 4.51sp2 has defect fixes that are necessary to run eMPower.

- Windows NT or 2000 Server
- MS-SQL 7.0 or higher
- IIS4 or higher
- ColdFusion 4.5.1sp2
- eMPower Version 3.7

## Installing eMPower

First, install eMPower as described earlier in "Installing eMPower on Windows" on page [26](#).

## Creating the eMPower Database

Open your SQL Enterprise Manager to begin the process of creating the eMPower database.

1. Select the Server you want to add the database to
2. Right click on the database and select "**New Database...**"
3. Enter the new name of the database and select "**OK**"

- 
4. **Close** the SQL Enterprise Manager.

## Initializing content into the database

This utility will initialize a previously created blank eMPower Version 3.7 database. It will create an initial Usergroup, User, Content Group, and a Main Category.

Open your SQL Query Analyzer to begin the process of initializing content into the database.

1. Choose the server you want to log into and select “OK”
2. Select the new database that you created earlier by selecting that database name out of the drop down box in the tool bar
3. Load the sql script by selecting “Open File,” and selecting the file: “eMPower\_mssql.sql” from the /eMPower/utilities folder
4. Click on the green arrow, or press F5, to execute the script.

You have just created a blank database for eMPower Version 3.7.

## Setting Up the Datasource

In order for ColdFusion Server and the eMPower application to use the database, they need to connect using an ODBC type of connection.

To do this, you will need to create a datasource that points to the MS-SQL eMPower database.

1. Go to the **ODBC Manager** on the Server system.
2. Click the **System DSN** tab.
3. Click **Add...**
4. Choose **SQL** as the driver for the new database, then click **Finish**.
5. Fill out the appropriate information for the DSN.
6. When finished, select the **Finish** button.

Your datasource connection will attempt to verify after creation. If your datasource fails, please see the ODBC Help troubleshoot the issue.

---

## Configuring for the New DSN

Since you are now using the MS-SQL database, you will need to modify the file that calls the DSN for eMPower.

1. Open the file “eMPower\_sample\_sessionmanager.cfm” located in the /siteroot/empsessions/ directory.
2. Search for “**request.ecm.db.dsn**”.
3. Enter the DSN name in the quotes to match the datasource that points to the empty MS-SQL eMPower database.

For example:

```
request.ecm.db.dsn="My_DSN";
```

Where MyDSN points to eMPower.

The operator may log into the eMPower database by launching a Web browser and entering the correct URL/index2.cfm. Example: www.mysite.com/index2.cfm. Login using the username “Admin” and the password “Admin”. Once logged in the operator can use the admin console (Work Area For Administrators) to begin administering the eMPower driven Web site.

## Moving the data into the DB

Your installation of eMPower should have included a Microsoft Access eMPower database. Use the database mover to move the content from this Access database to your new MS-SQL database. You need to know the data source name of each of the databases.

Once you have successfully installed the script to create the needed tables in MS-SQL, you can optionally populate it with data using the database mover utility.

To do this, you will need to have a datasource setup for each database (Access 2000 and MS-SQL).

The 1<sup>st</sup> datasource needs to point to the Access2000 database titled eMPower\_sample\_V36\_Access2000.mdb as a system datasource. Use the Microsoft Access driver when creating this System DSN.

The 2<sup>nd</sup> datasource needs to point to the Oracle database as a system datasource. Use the MS ODBC for MS-SQL driver.

- 
1. You will need to run the file “dbtodb.cfm” from a ColdFusion enabled directory through your Windows Web server. By default, the file gets installed to:  
**http://localhost/eMPowersample/eMPower/utilities/dbtodb.cfm**
  2. When this page comes up, you will be prompted with two input boxes. Insert the name of the datasource name that points to the *MS Access2000* database in the input box labeled **Source DSN** and the datasource name for the *MS-SQL* database in the **Destination DSN**.
  3. A large percentage of your existing database is made up of the content in the History table. Select the check box **Minimal Database Size** if you do not want to move all the history content to the new database, and reduce the size of your database as a result.
  4. Click on the **Submit** button.

Your database should be populated. If the data did not populate or you received an error please review your datasources and their connection information.

## Configuring Database Info via eMPower

After you configure eMPower to use a MS-SQL database, you will then have the opportunity to configure the information via the eMPower Administrator Workarea.

From the Workarea, you can configure the:

- Datasource Name
- Database Type

### Selecting the Datasource Name

When you have setup a MS-SQL datasource for eMPower, you will need to type in the DSN on the configuration page in the eMPower Administrator Workarea.

---

---

**Data Source:**

**Default Language:**

**User:**

## Selecting the Database Type

When you have setup a MS-SQL database for eMPower, you will be able to select the database type from the drop down list in the eMPower Administrator Workarea.

**Database Type:**

- ACCESS
- ORACLE
- MS-SQL**
- MYSQL
- SYBASE

---

# Setup for MySQL

This chapter is to assist in the setup of eMPower for a MySQL database. The following setup was performed on a Linux operating system.

## Prerequisites

Before you set up eMPower to run with a MySQL database, it is recommended that you have at least this listed configuration. This listed configuration is only a suggested one. The configuration shown was what Ektron has tested and found to work on a Linux configuration. However, Macromedia ColdFusion 4.51sp2 has defect fixes that are necessary to run eMPower.

- Red Hat Linux 6.2
- MySQL 3.53.32
- Apache 1.3.12
- ColdFusion 4.51sp2 for Linux
- eMPower Version 3.7

## Installing eMPower

First, install eMPower as described earlier in "Installing eMPower on Linux or Unix" on page 41.

## Setting MySQL as a Database Type

1. Open the session manager file located in eMPower/sessions/. There should only be one named 'eMPower\_sample\_sessionmanager.cfm'. The file location is as follows:

**/your siteroot/empsessions/  
eMPower\_sample\_sessionmanager.cfm**

2. Once you have opened the file in ColdFusion Studio or a compatible text editor, scroll to about halfway down the file where you see `request.ecm.db.dbname="request.ecm.db.dbname="`; Set the parameter in "" to MYSQL as follows:  
change this name to MYSQL  
`request.ecm.db.dbname="MYSQL";`
3. **Save** and close this file.

## ColdFusion Settings

### Setting Up the Datasource

In order for ColdFusion Server and the eMPower application to use the database, they need to connect using an ODBC type of connection. For a Linux Operating System using ColdFusion, you should use the Merant Drivers provided with ColdFusion Server.

To do this, you will need to create a datasource that points to the MySQL eMPower database.

1. Go to the ColdFusion Administrator page on the MySQL system.  
**<http://localhost/cfide/administrator/index.cfm>**
2. Click on the link for **ODBC** under **Data Sources**.
3. Enter a name in the provided DSN field, select the ODBC driver **MERANT mySQL Driver** from the list, and click **Add**.

You will want to fill out the fields as follows:

Field	What to enter
Data Source Name:	eMPower_sample
Database Name:	eMPower
Server Host Name:	localhost or [your ip or hostname]

---

Field	What to enter
Server Port:	3306 or [your specified mysql port]
ColdFusion Login:	<b>Username:</b> [username] <b>Password:</b> [password]

---

**NOTE** When setting up the datasource, keep in mind that the host and user specified, must exist in the MySQL master database user table and have the appropriate privileges. See your MySQL documentation on how to setup and grant privileges for users.

---

4. When finished, select the **Create** button.

Your datasource connection will attempt to verify after creation. If your datasource fails, please see the ColdFusion documentation to troubleshoot the issue.

## Setting Up the Database

Enter mysql as an existing MySQL user that has the privileges to add and modify users to the MySQL database (i.e. a super user like root).

Next you will need to add a user to the eMPower database who will have privileges to MySQL. You can use an existing one if you prefer but we recommend for testing purposes, that you create an independent user who will be able to access MySQL.

You may also want to add a user for the Windows machine that will be accessing the MySQL database through a datasource. You will only need to do this if you plan to populate the MySQL eMPower database with eMPower data mover utility.

### Add User To MySQL DB

1. Start mysql on your server from a terminal:  

```
[ root@localhost /user/local/mysql/bin/ ] # ./mysql  
mysql> connect mysql;
```

- 
2. SQL to insert user and grant all privileges:

```
mysql> insert into user values('yourserveraddress',  
'username', password('password'),'Y', 'Y', 'Y', 'Y', 'Y', 'Y',  
'Y', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y');
```

3. Flush the hosts and privileges granted:

```
mysql>FLUSH hosts;  
mysql>FLUSH privileges;
```

4. Test that user has been added:

```
mysql> select * from users where user='username';
```

Should return the user records that were inserted. See MySQL manual on adding users for more information.

Now, you will need to create a database in MySQL named 'eMPower'. It does not matter what you name the database but for testing purposes, let's just make it 'eMPower'.

## Adding the eMPower Database

1. Use the following to create a database named eMPower:

```
[ root@localhost /user/local/mysql/bin/ ] # ./mysql  
mysql> create database eMPower;
```

2. Test by connecting to the newly created database:

```
mysql> connect eMPower;
```

## Building The Tables

### *Running The Script:*

Run the script provided by Ektron named **mysql\_eMPower\_tables.sql**.

For example:

```
[ root@localhost /home/httpd/html/eMPower/utilities/ # /usr/  
local/src/mysql/bin/mysql -u admin eMPower <  
eMPower_mysql.sql
```

---

## ***Verify That the Script Created the Tables***

Test the script by accessing the database and requesting the list of tables created:

```
mysql> connect eMPower;
```

```
mysql> show tables;
```

A list of 22 tables should appear including:

- help\_subcat
- help\_cat
- help
- fonts
- documents
- users
- user\_groups
- templates
- template\_types
- subcategories
- stringtbl
- schedule
- lib\_type
- lib
- language
- doc\_types
- doc\_status\_codes
- doc\_history
- doc\_groups
- doc\_edit
- colors
- categories

---

## Initializing content into the database

This utility will initialize a previously created blank eMPower Version 3.7 database. It will create an initial Usergroup, User, Content Group, and a Main Category. When this utility completes successfully the operator must edit the session\_eMPower\_sample\_manager.cfm file.

1. Open the file “eMPower\_sample\_sessionmanager.cfm” located in the {siteroot}/empsessions/ directory.
2. Search for “request.ecm.db.dsn”.
3. Enter the DSN name in the quotes to match the datasource that points to the empty eMPower database.

For example:

```
request.ecm.db.dsn="My_DSN";
```

Where MyDSN points to eMPower.

The operator may login into the eMPower database by launching a Web browser and entering the correct URL/index.cfm. Example: www.mysite.com/index.cfm. Login using the username “Admin” and the password “Admin”. Once logged in, the operator can use the admin console (Work Area For Administrators) to begin administering the eMPower driven Web site.

## Moving the data into the DB

Once you have successfully installed the script to create the needed tables in MySQL, you can OPTIONALLY populate it with data by using the database mover utility.

---

### NOTE

Using the datamover utility is optional. The datamover is primarily used for:

- Moving your eMPower Web site from a Windows to Linux platform
- Using the eMPower sample content

To get your eMPower site running with MySQL, running the datamover utility is optional.

---

To do this, you will need to have a datasource setup for each database (Access 2000 and MySQL). Both of these datasources need to exist on a Windows system with ColdFusion Server running.

---

A utility to connect to a MySQL database through an ODBC connection will need to be installed to the Windows system to accomplish the 2<sup>nd</sup> datasource needed. It can be found at:

**<http://www.mysql.com/downloads/api-myodbc.html>**

The 1<sup>st</sup> datasource needs to point to the Access2000 database titled eMPower\_sample\_V36\_Access2000.mdb as a system datasource. Use the Microsoft Access driver when creating this System DSN.

The 2<sup>nd</sup> datasource needs to point to the MySQL database as a system datasource. Use the MySQL driver installed from the MySQL-ODBC utility when creating this System DSN.

1. Access the data mover utility from the Utilities directory in the eMPower36.zip file.
2. You will need to run this from a ColdFusion enabled directory through your Windows Web server. For example:  
**<http://localhost/eMPowersample/eMPower/utilities/dbtodb.cfm>**
3. When this page comes up, you will be prompted with two input boxes. Insert the name of the datasource name that points to the *MS Access2000* database in the input box labeled **Source DSN** and the datasource name for the *MySQL* database in the **Destination DSN**.
4. A large percentage of your existing database is made up of the content in the History table. Select the check box **Minimal Database Size** if you do not want to move all the history content to the new database, and reduce the size of your database as a result.
5. Click on the **Submit** button.

Your database should be populated. If the data did not populate or you received an error please review your datasources and their connection information.

---

## Troubleshooting

### S1000 Error: User 'ODBC@yourserveraddress'...

(S1000 Error: User 'ODBC@yourserveraddress' cannot connect to database eMPower)

You may find that the datasource connection from the Windows system to the MySQL system cannot connect the user '**ODBC@yourserveraddress**'

If this occurs you will need to create a temp user in the MySQL database in the name of '**ODBC@yourserveraddress**' with no password. You can delete the user account after you have finished moving the data from the Access database over to the MySQL database.

```
[ root@localhost /user/local/mysql/bin/ ] # ./mysql
```

```
mysql> connect mysql;
```

```
mysql> insert into user values('yourserveraddress', 'ODBC',  
password(''), 'Y',  
'Y');
```

You should now FLUSH the hosts and privileges and test to ensure that the user has been added. See the section titled '*Adding a User to MySQL*' for instructions on how to do this.

## Configuring Database Info via eMPower

After you configure eMPower to use a MySQL database, you will then have the opportunity to configure the information via the eMPower Administrator Workarea.

From the Workarea, you can configure the:

- Datasource Name
- Database Type

---

## Selecting the Datasource Name

When you have setup a MySQL datasource for eMPower, you will need to type in the DSN on the configuration page in the eMPower Administrator Workarea.

---

**Data Source:**

**Default Language:**

**User:**

## Selecting the Database Type

When you have setup a MySQL database for eMPower, you will be able to select the database type from the drop down list in the eMPower Administrator Workarea.

**Database Type:**

- ACCESS
- ORACLE
- MS-SQL
- MYSQL**
- SYBASE

---

# Setup for Sybase

This chapter is to assist in the setup of eMPower for a Sybase database. The following setup was performed on a Linux operating system.

## Prerequisites

Before you set up eMPower to run with a Sybase database, it is recommended that you have at least this listed configuration. This listed configuration is only a suggested one. The configuration shown was what Ektron has tested and found to work on a Linux configuration. However, Macromedia ColdFusion 4.51sp2 has defect fixes that are necessary to run eMPower.

- Red Hat Linux 6.2
- Sybase
- Apache 1.3.12
- ColdFusion 4.51sp2 for Linux
- eMPower Version 3.7

## Installing eMPower

First, install eMPower as described earlier in "Installing eMPower on Linux or Unix" on page 41.

## Setting Sybase as a Database Type

1. Open the session manager file located in eMPower/sessions/. There should only be one named 'eMPower\_sample\_sessionmanager.cfm'. The file location is as follows:

```
/your siteroot/empsessions/  
eMPower_sample_sessionmanager.cfm
```

2. Once you have opened the file in ColdFusion Studio or a compatible text editor, scroll to about halfway down the file where you see `request.ecm.db.dbname="request.ecm.db.dbname="`; Set the parameter in "" to MYSQL as follows:  
**change this name to SYBASE**  
**request.ecm.db.dbname="SYBASE";**
3. **Save** and close this file.

## ColdFusion Settings

### Setting Up the Datasource

In order for ColdFusion Server and the eMPower application to use the database, they need to connect using an ODBC type of connection. For a Linux Operating System using ColdFusion, you should use the Merant Drivers provided with ColdFusion Server.

To do this, you will need to create a datasource that points to the MySQL eMPower database.

1. Go to the ColdFusion Administrator page on the MySQL system.  
**<http://localhost/cfide/administrator/index.cfm>**
2. Click on the link for **ODBC** under **Data Sources**.
3. Enter a name in the provided DSN field, select the ODBC driver **MERANT Sybase ASE** or **Sybase 11 Driver** from the list, and click **Add**.

You will want to fill out the fields as follows:

Field	What to Enter
Data Source Name:	eMPower_sample
Database Name:	eMPower
Server Host Name:	localhost or [your ip or hostname]
Server Port:	5000 or [your specified sybase port]

---

Field	What to Enter
ColdFusion Login:	<b>Username:</b> [username] <b>Password:</b> [password]

**NOTE** When setting up the datasource, keep in mind that the host and user specified, must exist in the Sybase master database user table and have the appropriate privileges. See your Sybase documentation on how to setup and grant privileges for users.

---

4. When finished, select the **Create** button.

Your datasource connection will attempt to verify after creation. If your datasource fails, please see the ColdFusion documentation to troubleshoot the issue.

## Setting Up the Database

### Building The Tables

#### *Running The Script:*

Run the script provided by Ektron named **createV36emp\_sybase.sql**.

For example:

```
isql -S servername -U database name -U Username -P Password -i input file
```

Example

```
isql -S Pine -U eMPower_sample -U johndoe -P -i eMPower_sybase.sql
```

#### *Verify That the Script Created the Tables*

Test the script by accessing the database and requesting the list of tables created:

A list of 22 tables should appear including:

- help\_subcat

- 
- help\_cat
  - help
  - fonts
  - documents
  - users
  - user\_groups
  - templates
  - template\_types
  - subcategories
  - stringtbl
  - schedule
  - lib\_type
  - lib
  - language
  - doc\_types
  - doc\_status\_codes
  - doc\_history
  - doc\_groups
  - doc\_edit
  - colors
  - categories

## Initializing content into the database

This utility will initialize a previously created blank eMPower Version 3.7 database. It will create an initial Usergroup, User, Content Group, and a Main Category. When this utility completes successfully the operator must edit the session\_eMPower\_sample\_manager.cfm file.

1. Open the file “eMPower\_sample\_sessionmanager.cfm” located in the {siteroot}/empsessions/ directory.
2. Search for “request.ecm.db.dsn”.

- 
3. Enter the DSN name in the quotes to match the datasource that points to the empty eMPower database.

For example:

```
request.ecm.db.dsn="My_DSN";
```

Where MyDSN points to eMPower.

The operator may login into the eMPower database by launching a Web browser and entering the correct URL/index.cfm. Example: www.mysite.com/index.cfm. Login using the username "Admin" and the password "Admin". Once logged in, the operator can use the admin console (Work Area For Administrators) to begin administering the eMPower driven Web site.

## Moving the data into the DB

Once you have successfully installed the script to create the needed tables in Sybase, you can OPTIONALLY populate it with data by using the database mover utility.

---

### NOTE

Using the datamover utility is optional. The datamover is primarily used for:

- Moving your eMPower Web site from a Windows to Linux platform
- Using the eMPower sample content

To get your eMPower site running with Sybase and Linux, running the datamover utility is optional.

---

To do this, you will need to have a datasource setup for each database (Access 2000 and Sybase). Both of these datasources need to exist on a Windows system with ColdFusion Server running.

A utility to connect to a Sybase database through an ODBC connection will need to be installed to the Windows system to accomplish the 2<sup>nd</sup> datasource needed.

The 1<sup>st</sup> datasource needs to point to the Access2000 database titled eMPower\_samplev36\_Access2000.mdb as a system datasource. Use the Microsoft Access driver when creating this System DSN.

The 2<sup>nd</sup> datasource needs to point to the MySQL database as a system datasource. Use the MySQL driver installed from the MySQL-ODBC utility when creating this System DSN.

- 
1. Access the data mover utility from the Utilities directory in the eMPower36.zip file.
  2. You will need to run this from a ColdFusion enabled directory through your Windows Web server. For example:  
**http://localhost/eMPowersample/eMPower/utilities/dbtodb.cfm**
  3. When this page comes up, you will be prompted with two input boxes. Insert the name of the datasource name that points to the *MS Access2000* database in the input box labeled **Source DSN** and the datasource name for the *Sybase* database in the **Destination DSN**.
  4. A large percentage of your existing database is made up of the content in the History table. Select the check box **Minimal Database Size** if you do not want to move all the history content to the new database, and reduce the size of your database as a result.
  5. Click on the **Submit** button.

Your database should be populated. If the data did not populate or you received an error please review your datasources and their connection information.

## Configuring Database Info via eMPower

After you configure eMPower to use a Sybase database, you will then have the opportunity to configure the information via the eMPower Administrator Workarea.

From the Workarea, you can configure the:

- Datasource Name
- Database Type

### Selecting the Datasource Name

When you have setup a Sybase datasource for eMPower, need to type in the DSN on the configuration page in the eMPower Administrator Workarea.

---

**Data Source:**

**Default Language:**

**User:**

## Selecting the Database Type

When you have setup a Sybase database for eMPower, you will be able to select the database type from the drop down list in the eMPower Administrator Workarea.

**Database Type:**

- ACCESS
- ORACLE
- MS-SQL
- MYSQL
- SYBASE**



---

# Setup for Oracle

This chapter is to assist in the setup of eMPower for an Oracle database. The following setup was performed on a Linux operating system. For Windows installation please use the standard installation manual.

## Prerequisites

Before you set up eMPower to run with an Oracle database, it is recommended that you have at least this listed configuration. This listed configuration is only a suggested one. The configuration shown was what Ektron has tested and found to work on a Linux configuration. However, Macromedia ColdFusion 4.51sp2 has defect fixes that are necessary to run eMPower.

- Red Hat Linux 6.2
- Oracle 8i version 8.0.5
- Apache 1.3.12
- ColdFusion 4.51sp2 for Linux
- eMPower Version 3.7

## Installing eMPower

First, install eMPower as described earlier in "Installing eMPower on Linux or Unix" on page [41](#).

---

## Setting Oracle as a Database Type

6. Open the session manager file located in eMPower/empsessions/. There should only be one named 'eMPower\_sample\_sessionmanager.cfm'. The file location is as follows:  
**/siteroot/empsessions/  
eMPower\_sample\_sessionmanager.cfm**
7. Once you have opened the file in ColdFusion Studio or a compatible text editor, search for the filerequest.ecmdb.dbname where you see *request.ecm.db.dbname="request.ecm.db.dbname="*; Set the parameter in "" to ORACLE as follows:  
change this name to ORACLE  
**request.ecm.db.dbname="ORACLE";**
8. Save and close this file.

## ColdFusion Settings

### Setting Up the Datasource

In order for ColdFusion Server and the eMPower application to use the database, they need to connect using an ODBC type of connection. For a Linux operating system using ColdFusion, you should use the Merant Drivers provided with ColdFusion Server.

To do this, you will need to create a datasource that points to the ORACLE eMPower database.

1. Go to the ColdFusion Administrator page on the ColdFusion system.  
**http://localhost/cfide/administrator/index.cfm**
2. Click on the link for **ODBC** under **Data Sources**.
3. Enter a name in the provided DSN field, select the ODBC driver **MERANT Oracle 8 Driver** from the list, and click **Add**.
4. Fill out the appropriate information for the DSN.
5. When finished, select the **Create** button.

---

Your datasource connection will attempt to verify after creation. If your datasource fails, please see the ColdFusion documentation to troubleshoot the issue.

## Creating the eMPower Database

Please open the file `eMPower_oracle.sql`. This is the script that creates the eMPower tables. The file also contains multiple drop and grant statements.

The **drop** statements are used to clear the *tablespace* of any existing eMPower tables. You should backup your current db schema. If you wish, you may remove these drop statements from this file. You may also remove or alter the Grant statements.

If you plan to create these tables in a different tablespace then the one you run the file from, you must include that tablespace name before each table in the file.

**Ex: yourname.eMPowertablename**

Run this file.

If the script stops at any points without giving any errors, split the file up at the breakpoints and run each block sequentially.

## Initializing content into the database

This utility will initialize a previously created blank eMPower Version 3.7 database. It will create an initial Usergroup, User, Content Group, and a Main Category. When this utility completes successfully the operator must edit the `session_eMPower_sample_manager.cfm` file.

1. Open the file “`eMPower_sample_sessionmanager.cfm`” located in the `/siteroot/empsessions/` directory.
2. Search for “`request.ecm.db.dsn`”.

- 
3. Enter the DSN name in the quotes to match the datasource that points to the empty eMPower database.

For example:

```
request.ecm.db.dsn="My_DSN";
```

Where MyDSN points to eMPower.

The operator may log into the eMPower database by launching a Web browser and entering the correct URL/index2.cfm. Example: www.mysite.com/index2.cfm. Login using the username "Admin" and the password "Admin". Once logged in the operator can use the admin console (Work Area For Administrators) to begin administering the eMPower driven Web site.

Run the database mover Utility

Your installation of eMPower should have included a Microsoft Access eMPower database. Use the database mover to move the content from this Access database to your new Oracle database. You need to know the data source name of each of the databases.

## Moving the data into the DB

Once you have successfully installed the script to create the needed tables in Oracle, you can OPTIONALLY populate it with data using the database mover utility.

---

### NOTE

Using the datamover utility is optional. The datamover is primarily used for:

- Moving your eMPower Web site from a Windows to Linux platform
- Using the eMPower sample content

To get your eMPower site running with Linux and Oracle, running the datamover utility is optional.

---

To do this, you will need to have a datasource setup for each database (Access 2000 and Oracle). Both of these datasources need to exist on a Windows system with ColdFusion Server running.

The 1<sup>st</sup> datasource needs to point to the Access2000 database titled eMPower\_samplev36\_Access2000.mdb as a system datasource. Use the Microsoft Access driver when creating this System DSN.

---

The 2<sup>nd</sup> datasource needs to point to the Oracle database as a system datasource. Use the MS ODBC for Oracle or Merant Oracle 8 driver.

1. Access the data mover utility from the Utilities directory in the eMPower36.zip file.
2. You will need to run this from a ColdFusion enabled directory through your Windows Web server. For example:  
**http://localhost/eMPowersample/eMPower/utilities/dbtodb.cfm**
3. When this page comes up, you will be prompted with two input boxes. Insert the name of the datasource name that points to the *MS Access2000* database in the input box labeled **Source DSN** and the datasource name for the *Oracle* database in the **Destination DSN**.
4. A large percentage of your existing database is made up of the content in the History table. Select the check box **Minimal Database Size** if you do not want to move all the history content to the new database, and reduce the size of your database as a result.
5. . Click on the **Submit** button.

Your database should be populated. If the data did not populate or you received an error please review your datasources and their connection information.

## Configuring Database Info via eMPower

After you configure eMPower to use a Oracle database, you will then have the opportunity to configure the information via the eMPower Administrator Workarea.

From the Workarea, you can configure the:

- Datasource Name
- Database Type

---

## Selecting the Datasource Name

When you have setup a Oracle datasource for eMPower, you will need to type in the DSN on the configuration page in the eMPower Administrator Workarea.

---

**Data Source:**

**Default Language:**

**User:**

## Selecting the Database Type

When you have setup a Oracle database for eMPower, you will be able to select the database type from the drop down list in the eMPower Administrator Workarea.

**Database Type:**

- ACCESS
- ORACLE
- MS-SQL
- MYSQL
- SYBASE

# Troubleshooting

## Troubleshooting Installation

This section is intended to help resolve most of the potential issues and provide adequate navigation to other resources to help you install the eMPower software.

ERROR	SUGGESTED ACTION
<p>HTTP/1.0 404 Object Not Found</p>	<p>This error message may be seen for several reasons. The causes most commonly found when installing the eMPower software are as follows:</p> <p>Expecting to find index.cfm</p> <p>This is seen when a link is pointing to a directory or subdirectory that expects index.cfm and it is not properly configured as a default template file in MS Internet Information Server. To set index.cfm as a default template file, see Before You Install eMPower in the eMPower Installation Guide.</p> <p>File does not exist</p> <p>This is seen due to a bad link or missing file.</p>
<p>Error 10001</p>	<p>This error message is caused by an invalid eMPower license. See Setting Up Your eMPower License on page 9 for the appropriate steps for setting up your license.</p>
<p>Locked File Detected During Uninstall</p>	<p>Make sure that the file specified is not open or being used. It may also be due to the system using the file. If so, you may need to reboot your system to un-install the application correctly.</p>
<p>Error Occurred While Processing Request</p>	<p>If you have not successfully configured the Mail settings in the ColdFusion Administrator, you may see the following error message:</p> <p>The encrypted template C:\INETPUB\WWWROOT\ECM\eMPower\xxxxx.CFM contains invalid CFML syntax.</p> <p>In the ColdFusion Administrator, see the Mail Server Connection Settings page for instructions on how to set this up. (Click on Mail in the Miscellaneous menu.)</p>

ERROR	SUGGESTED ACTION
Not Allowing Login	<p>If your eMPower software is not allowing you to login, your session may have expired and you will be required to refresh the browser windows that you are using. This one of the security features from eMPower.</p>
Invalid License	<p>If your license key was not installed or installed incorrectly and you try to access that page, the editor detects an invalid license. The editor is not usable unless a valid key is given in one of the License parameters. Without a valid license key, the editor is not usable, but it will display the About eWebEditPro dialog, which lists the license keys given.</p> <p>A license key is not required when accessing an HTML file directly from your hard drive. For example, C:\WorkingDirectory\test.htm. This is only useful for diagnostic purposes.</p> <p>You will need to obtain a valid license key for eWebEditPro to use it with the eMPower software.</p>
No web editor shows up in eMPower	<p>When installing (client machine) ActiveX control to Internet Explorer, failure to complete the install may require you to uninstall eWebEditPro from your PC.</p> <p>To uninstall eWebEditPro perform the following steps:</p> <p>On the Desktop, click on My Computer:</p> <p>Open C:\Windows\Downloaded Program Files\            IMAGE PLACEHOLDER</p> <p>Click on eWebEditorPro.eWebEditPro file with the right mouse button and select Remove.</p>
ODBC/VBAJET.DLL Error	<p>Immediately after installation on the server, when trying to access an eMPower site for the first time, the following message appears:</p> <p>IMAGE PLACEHOLDER</p> <p>This appears to be caused by choosing the “Minimum” install of Microsoft Windows. Inserting a copy of VBAJET.dll into / WINDOWS/SYSTEM seemed to help, but in the end we could find no solution apart from reinstalling Windows.</p>
Template Files Do Not Appear	<p>If you create templates in the Explorer interface and .cfm template files do not appear in the web server’s file system, it may be because the three basic template files (template1.cfm, template2.cfm, and template3.cfm) aren’t in the same directory as your application.cfm file. eMPower makes a copy of one of these when it creates a template file.</p>

ERROR	SUGGESTED ACTION
HTTP/1.0 403 Forbidden	<p>In a functioning eMPower web site, the default page for the web server must be set to index.cfm as detailed in the eMPower Installation Guide. If the default page is set to something else, the login page will appear as normal and many of eCM's features will function as normal, but if you try to access the Explorer interface you will receive an "HTTP/1.0 403 Forbidden" error from your Web server. To correct this, simply change the default page back to index.cfm.</p>
Issues After Upgrading	<p>If the permissions of the files within an NT system are not granted for that users/administrator, the file will be unavailable and the eMPower software will not function correctly.</p> <p>To solve this issue you may need to go to the properties of that file and modify it's permissions to match that of whomever is trying to access it.</p>