



**Ektron**

*ebusiness the way it should be*

**Ektron**  
***eMPower***

**Installation Manual**

**Version 3.5**

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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 lifecycle 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 Webmasters 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.

INSERT SCREEN SHOT HERE

## System Requirements

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

Browsers	When <b>viewing</b> a Web site developed with eMPower: <ul style="list-style-type: none"> <li>All Major Browsers</li> </ul> When <b>modifying</b> a Web site developed with eMPower: <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

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## 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)

# Upgrading eMPower

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 3.5. 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 2.0 to 3.5. Listed below is a quick check list of tasks you should perform before running the eMPower 3.5 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 3.5.

### *Install eMPower 3.5*

Install eMPower 3.5 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.

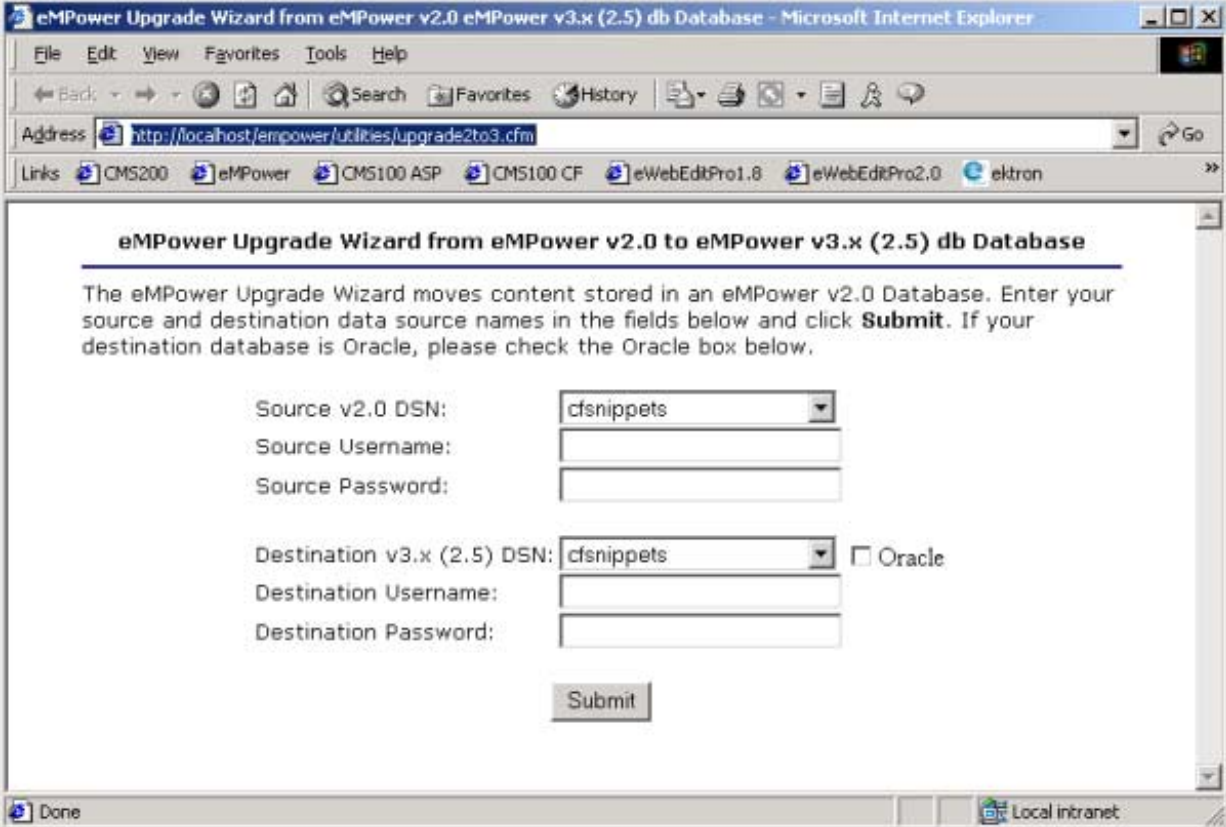
## *Running the Database Upgrade Wizard*

Since the eMPower 2.0 and 3.5 databases have a slightly different structure, you will need to run the Database Upgrade Wizard supplied with the eMPower 3.5 installation.

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

**[http://your\\_siteroot/empower/utilities/upgrade2to3.cfm](http://your_siteroot/empower/utilities/upgrade2to3.cfm)**

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



The screenshot shows a web browser window titled "eMPower Upgrade Wizard from eMPower v2.0 eMPower v3.x (2.5) db Database - Microsoft Internet Explorer". The address bar shows the URL "http://localhost/empower/utilities/upgrade2to3.cfm". The page content includes the title "eMPower Upgrade Wizard from eMPower v2.0 to eMPower v3.x (2.5) db Database" and a paragraph: "The eMPower Upgrade Wizard moves content stored in an eMPower v2.0 Database. Enter your source and destination data source names in the fields below and click **Submit**. If your destination database is Oracle, please check the Oracle box below." The form contains two sections: "Source v2.0 DSN:" with a dropdown menu set to "cfsnippets", "Source Username:", and "Source Password:"; and "Destination v3.x (2.5) DSN:" with a dropdown menu set to "cfsnippets", "Destination Username:", "Destination Password:", and an unchecked "Oracle" checkbox. A "Submit" button is located at the bottom of the form.

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
<b>Source v2.0 DSN</b>	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.
<b>Source Username</b>	Enter a username for the source database if needed.
<b>Source Password</b>	Enter the password for the source database if needed
<b>Destination v3.x DSN</b>	Select, from the drop down list, the DSN of the source database. This should be the DSN created by the eMPower 3.5 install. By default, the DSN is empower_sample.
<b>Oracle</b>	Check this box if the destination database is an Oracle database,
<b>Destination Username</b>	Enter a username for the destination database if needed.
<b>Destination Password</b>	Enter the password for the destination database if needed
<b>Submit</b>	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 3.5 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 3.5 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.



-----  
-----  
DataSource: eMPower\_sample  
Default Language: English

4. Click on the **Update Setup** button at the bottom of the page.

Your eMPower 3.5 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 3.5 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 3.5 installation, and place the database in another directory. The 3.5 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 3.5 since the databases are the same.

### *Install eMPower 3.5*

Install eMPower 3.5 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 3.5 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 3.5 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 3.5 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.



4. Click on the **Update Setup** button at the bottom of the page.

Your eMPower 3.5 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 3.5 by:

1. Updating the name (if needed)
2. Pointing the DSN to the database that you backed up before you ran the 3.5 installation.

# Pre-Installation Tasks

As described in “What is eMPower?” 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

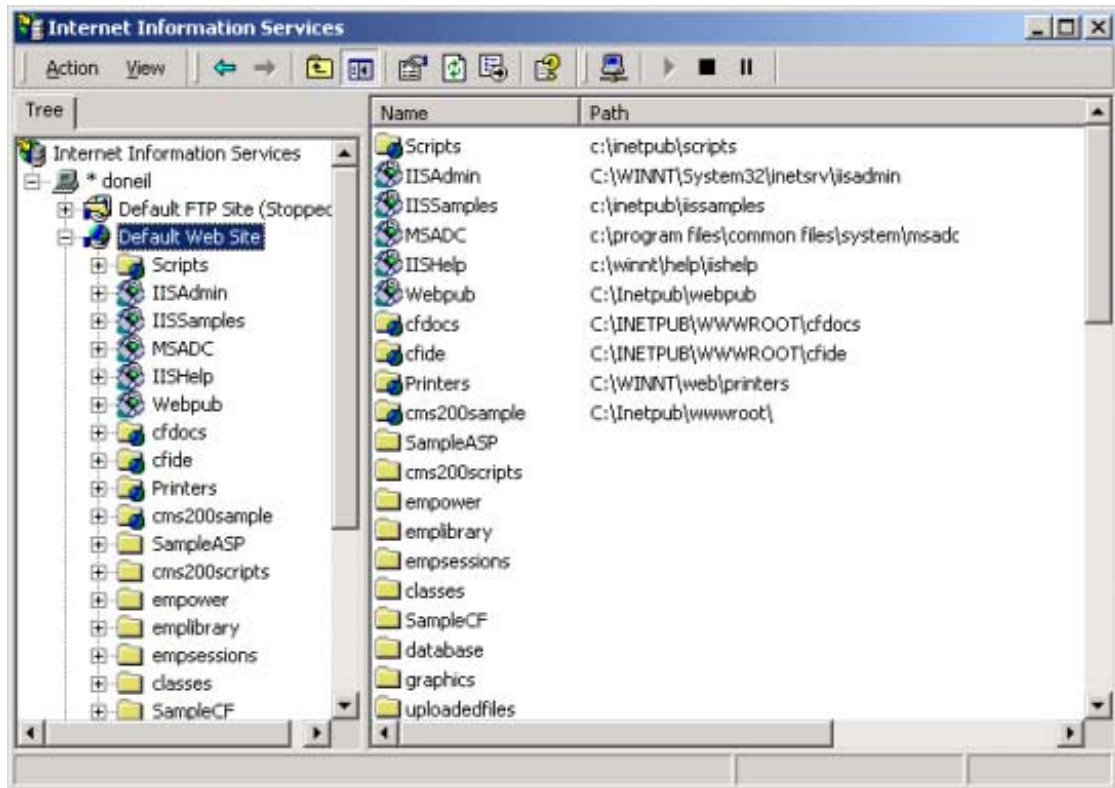
The default document of your Web server (either the Internet Information Server or the Personal Web Server, depending upon your system), and the ColdFusion Mail Server, must all be set to Index.cfm.

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

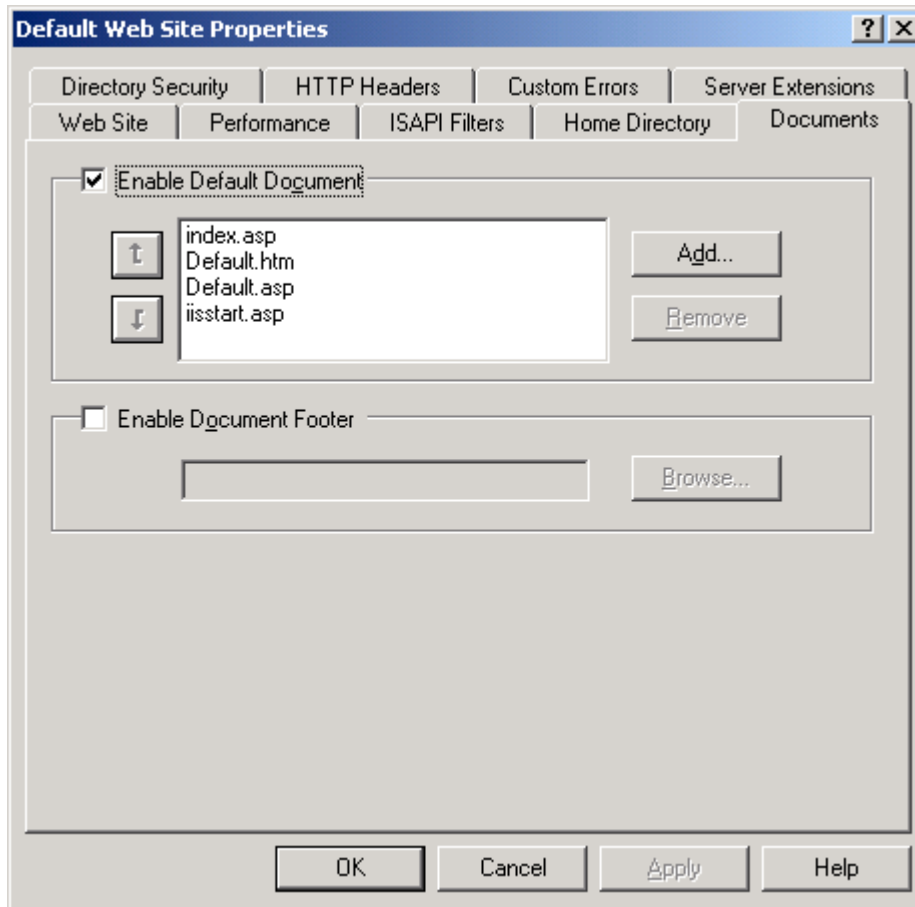
### *Win 2000/NT Internet Information Server Settings*

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

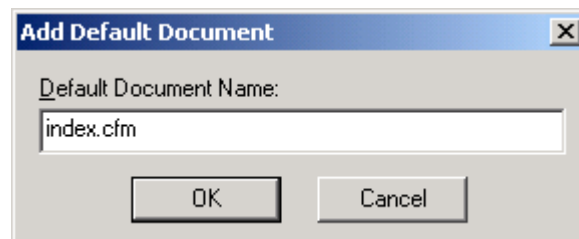
1. To open the **Internet Services Manager** Console, follow the path:  
**Start > Settings > Control Panel > Administrative Tools > Internet Services Manager**
2. Expand the tree in the left frame of the console and select Default Web Site.



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



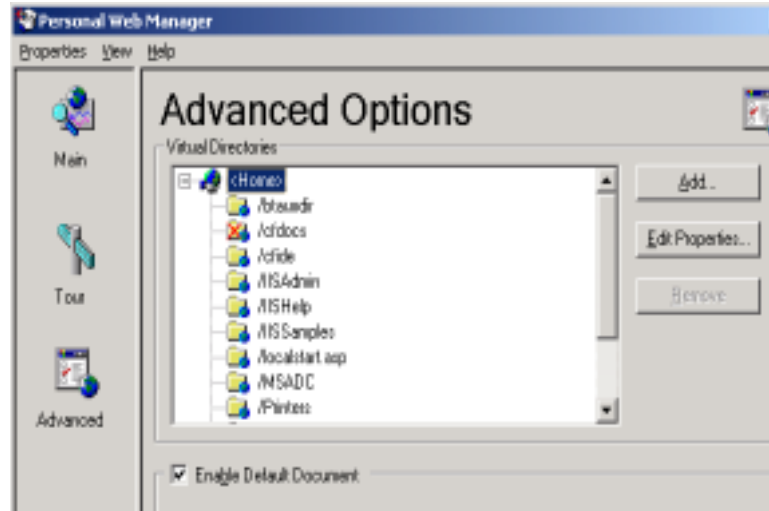
7. Click **OK** when finished.
8. Click **Apply** or **OK** to save the settings before closing the **Internet Services Manager** console.

## *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:



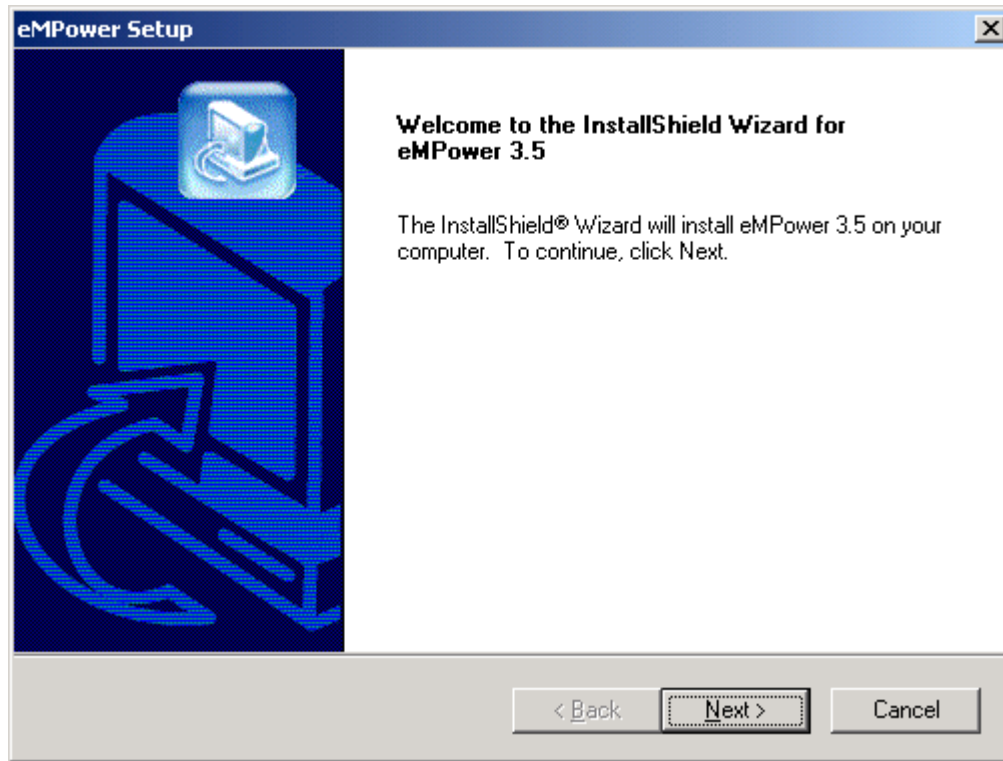
If you proceed through the installation wizard accepting all defaults, you will install eMPower using a Microsoft Access database. You do not need to have Microsoft Access installed.

**WARNING:** If you are upgrading from a previous version of eMPower, the installation will un-install your current version of eMPower. You will need to back up your database prior to installation.

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.



**eMPower Setup**

**eMPower Registration**

Company: Your company name  
Web Site: The address including http:// where eMPower will be running  
License: The License key provided by Ektron (may be left blank if running from http://localhost or http://127.0.0.1)

Company:

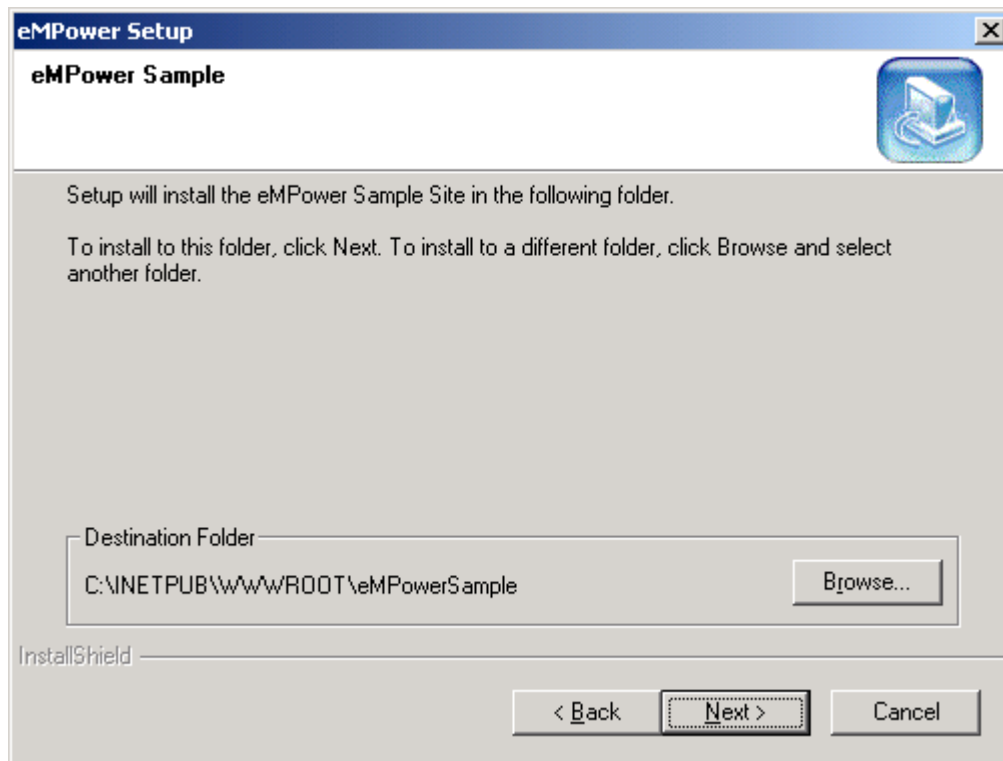
Web Site:

License:

InstallShield

< Back   Next >   Cancel

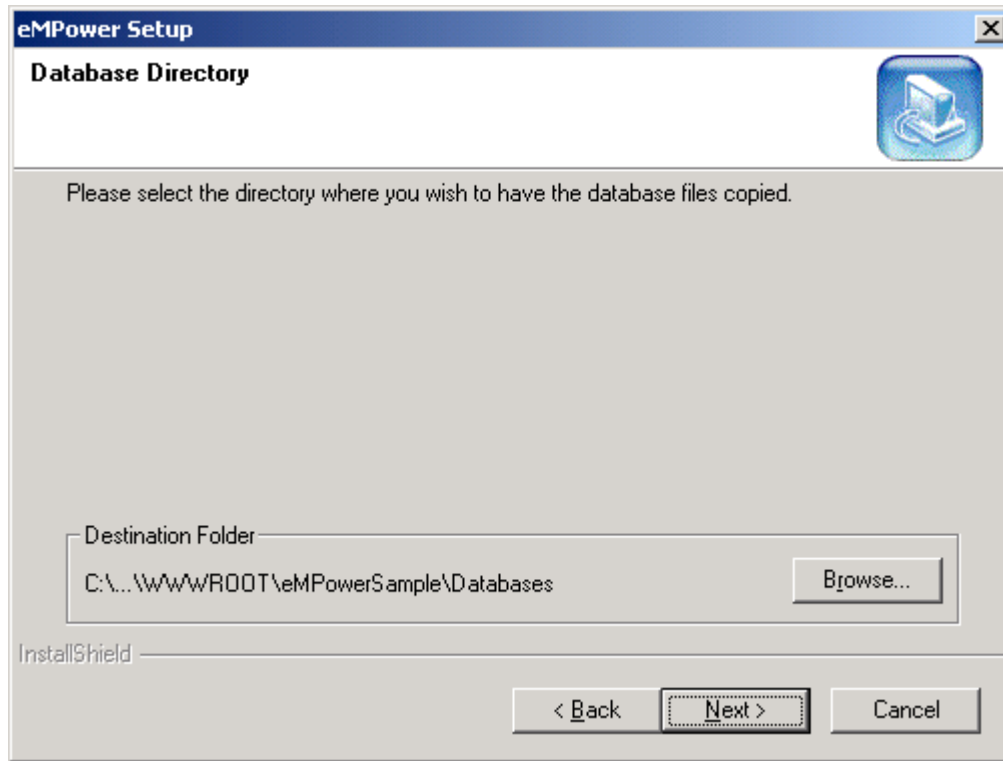
3. In the **eMPower Registration** dialog, enter the **Company**, **Web site**, and **license** for this installation, in the fields provided. Click **Next** to proceed.



4. The **Choose Destination Location** dialog box appears. Click **Next** to accept the default directory or **Browse** to change the installation directory.

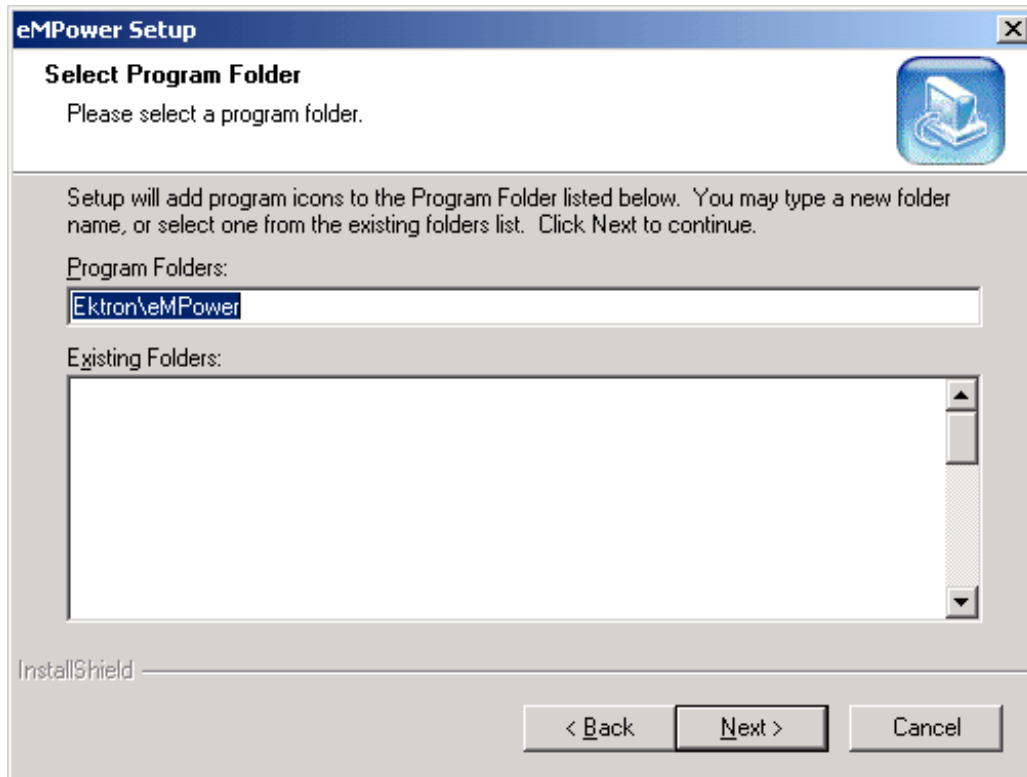
The selected folder will be designated as the destination folder for the eMPower application files.

5. In the **Database Directory** dialog box, you must select the folder in which all database files will be placed.

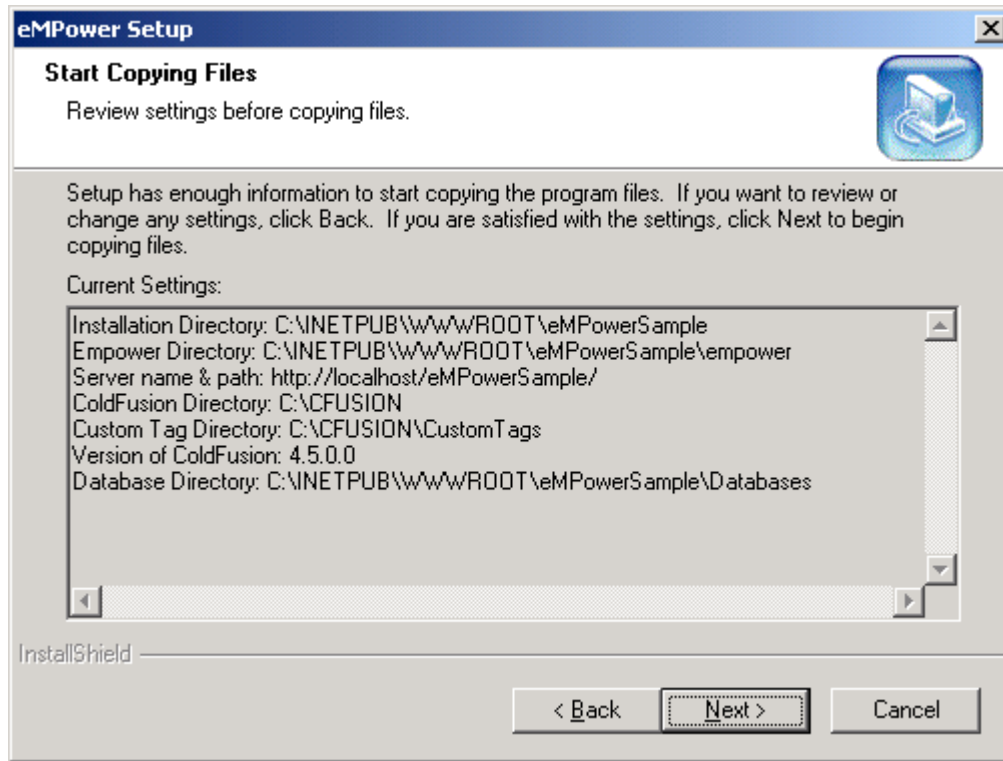


Click **Next** to accept the default directory or **Browse** to select a different folder.

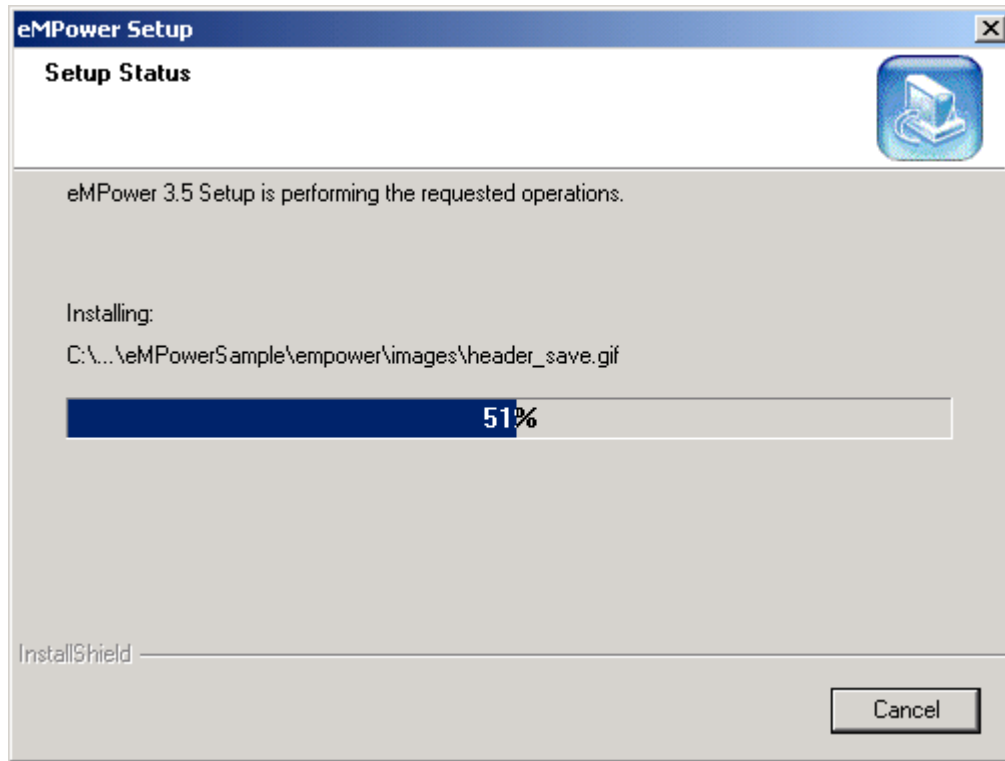
6. The **Select Program Folder** dialog box appears. Click **Next** to accept the default Program Folder.



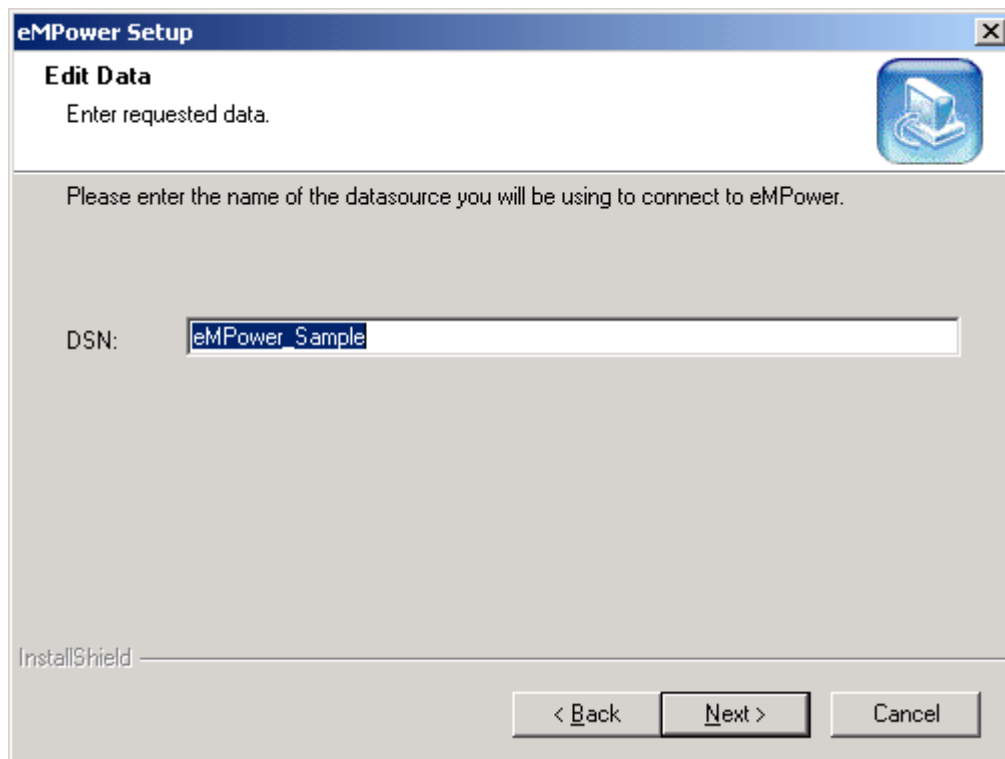
7. The **Start Copying Files** dialog box appears. Review the settings in the following dialog box then click the **Next** button to install the eMPower files.



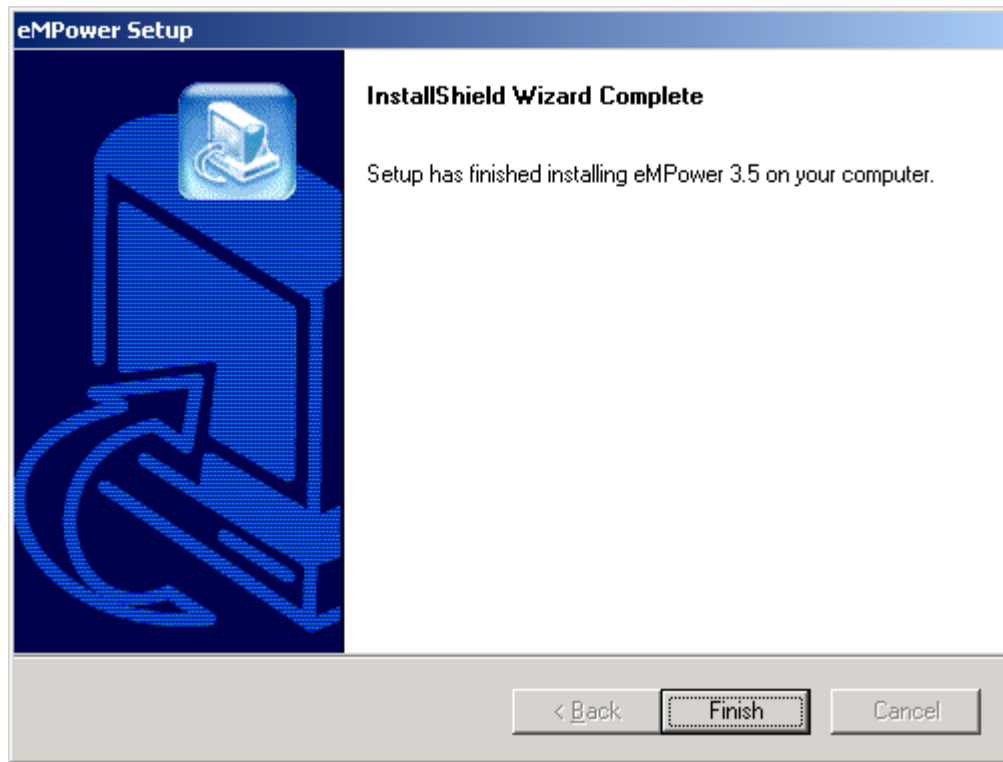
8. The **Setup Status** dialog box appears. A dialog box containing a status bar displays progress of the setup copying eMPower files.



9. The **Edit Data** dialog box appears.



Click **Next** to accept the default and finish the installation.



## Restart ColdFusion Services

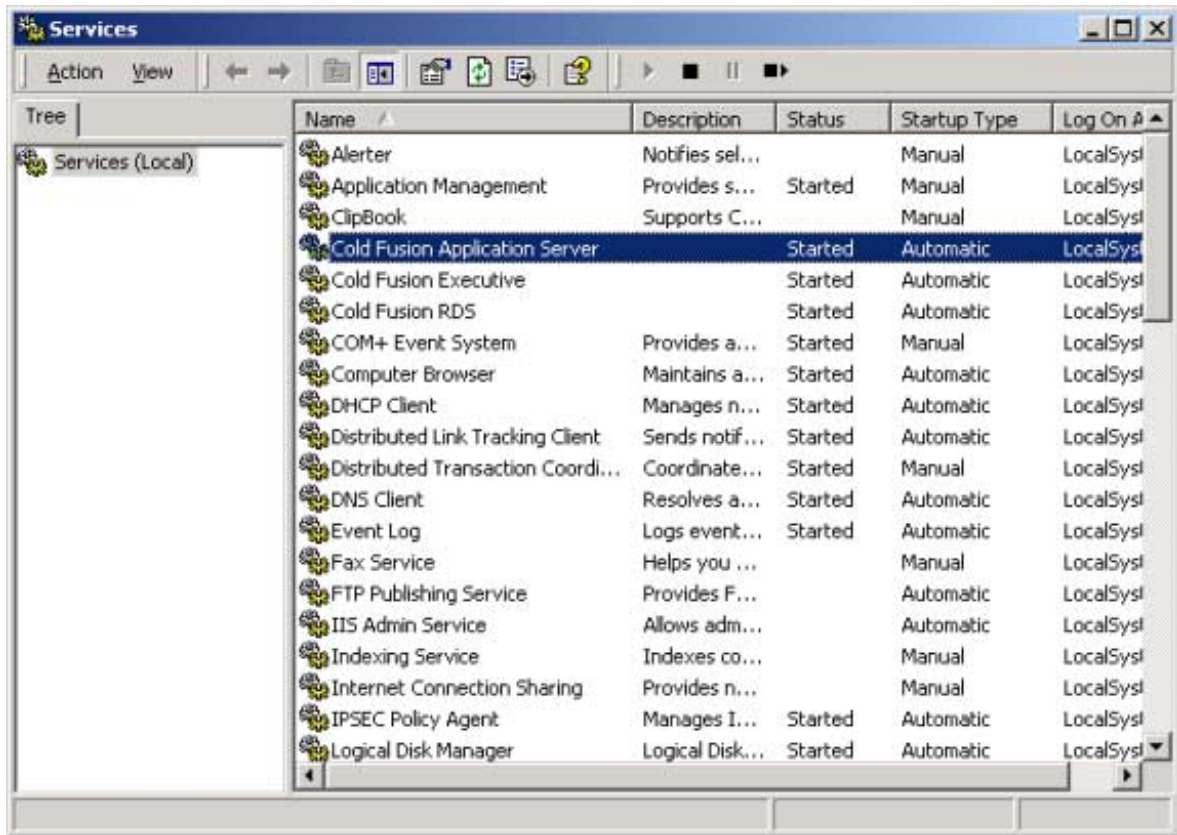
You may need to stop and restart all ColdFusion services if you are running an older version of ColdFusion.

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**.

Skip ahead to the “Inserting Your eMPower License” Chapter to continue with the installation.



# Installing eMPower on Linux & 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 3.5

## 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:\inet-pub\wwwroot\emplibraryV) 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 3.5 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:\inet-pub\wwwroot\emplibrary". 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/emplibrary'.

<b>Library</b>	<hr/>	
<b>File Upload Path:</b>	<input type="text" value="/home/httpd/html/emplibrary/"/>	
<b>Image Upload Path:</b>	<input type="text" value="/home/httpd/html/emplibrary/"/>	

## *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/emplibrary/) 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 'emplibrary' directory to 'nobody'.

At a linux shell prompt,  
**>chown nobody.nobody /home/httpd/html/emplibrary**

This will change the owner of the 'emplibrary' directory to 'nobody', allowing access for your webserver 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\documentat ion	The subdirectory contains the PDF files for the Installation Guide and the User Documentation.

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File	Description
www\ecm\eMPower	
CFUSION\CustomTags ECMxxxx.cfm	The files used by eMPower that are installed in the ColdFusion Custom Tags directory all start with ECM, Ektron Content Management. Any page needs to include this initialization. <cfinclude template="/eMPower/templates/initsession.cfm"> <cfparam name="url.doc_status" default="A">

Skip ahead to the "Inserting Your eMPower License" Chapter to continue with the installation.

# Enter 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 by using the database selected during installation.
2. Log into eMPower using the following username/password combination:  
**User = Admin**  
**Password = Admin**
3. Click **Menu**, then point to **Work Area for Application Administrator**.

Note: The **Administrator Work Area** will open in a separate window. This area is explained in detail in the eMPower Administrator Manual, Version 3.5.

4. From the **Administrator Work Area**, click **Setup** on the menubar.
5. Point to **Configuration** to open the **eMPower Configuration** page.

The screenshot shows the 'eMPower Configuration Build 3.5' web interface. The page is titled 'Work Area of App Administrator - Microsoft Internet Explorer' and 'eMPower Work Area'. The main content area is titled 'eMPower Configuration Build 3.5'. The configuration fields are as follows:

- Owner:** your company name
- Server Path:** http://localhost/eMPowerSample/
- Email Domain:** mydomain.com
- State Management:** Cookies
- License Key(s):** Three empty text input fields.
- DataSource:** eMPower\_Sample
- Default Language:** English
- User Authentication:** Database
- Database:** Username and Password fields.
- Editor:** Max Content Size: 65536 bytes (blank for no limit). HTML Filters:  well formed HTML,  xhtml,  minimal.  AutoDetect Microsoft Word 2000 content,  Remove Class Ids,  Remove Style Sheets.
- Library:** File Upload Path: C:\INETPUB\WWWROOT\eMPowerSam. Extensions: doc,pdf,xls,ppt,zip. Image Upload Path: C:\INETPUB\WWWROOT\eMPowerSam. Extensions: gif,jpg,peg.
- Other:** Extensions: Macromedia Dreamweaver/Ultradev. Insert Tags: <cfmodule template="...">

A blue 'Update Setup' button is located at the bottom center of the configuration area. The browser status bar at the bottom shows 'Done' and 'Internet'.

6. Enter your license(s) keys in the **License Key** fields. You may enter up to three license keys, depending upon your installation.
7. 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 3.5 for information on creating templates, content groups and user groups.
- eMPower User Manual, Version 3.5, for information on the content and publishing features.



# NT/LDAP Authentication

eMPower 3.2 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 [www.ektron.com](http://www.ektron.com).

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 3.2 has two new security login capabilities available. These new 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 3.2 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 3.2 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:

File(s)	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\
<b>ektronauthenticate.dll</b>	..\winnt\system32\
<b>AuthenticationManual.pdf</b>	..\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:

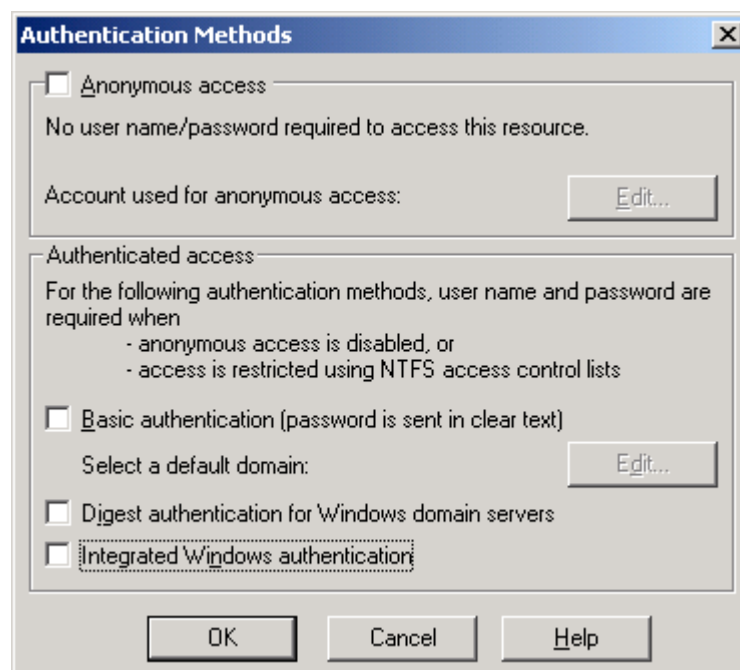
```
c:\>winnt\system32\regsvr32
```

## 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

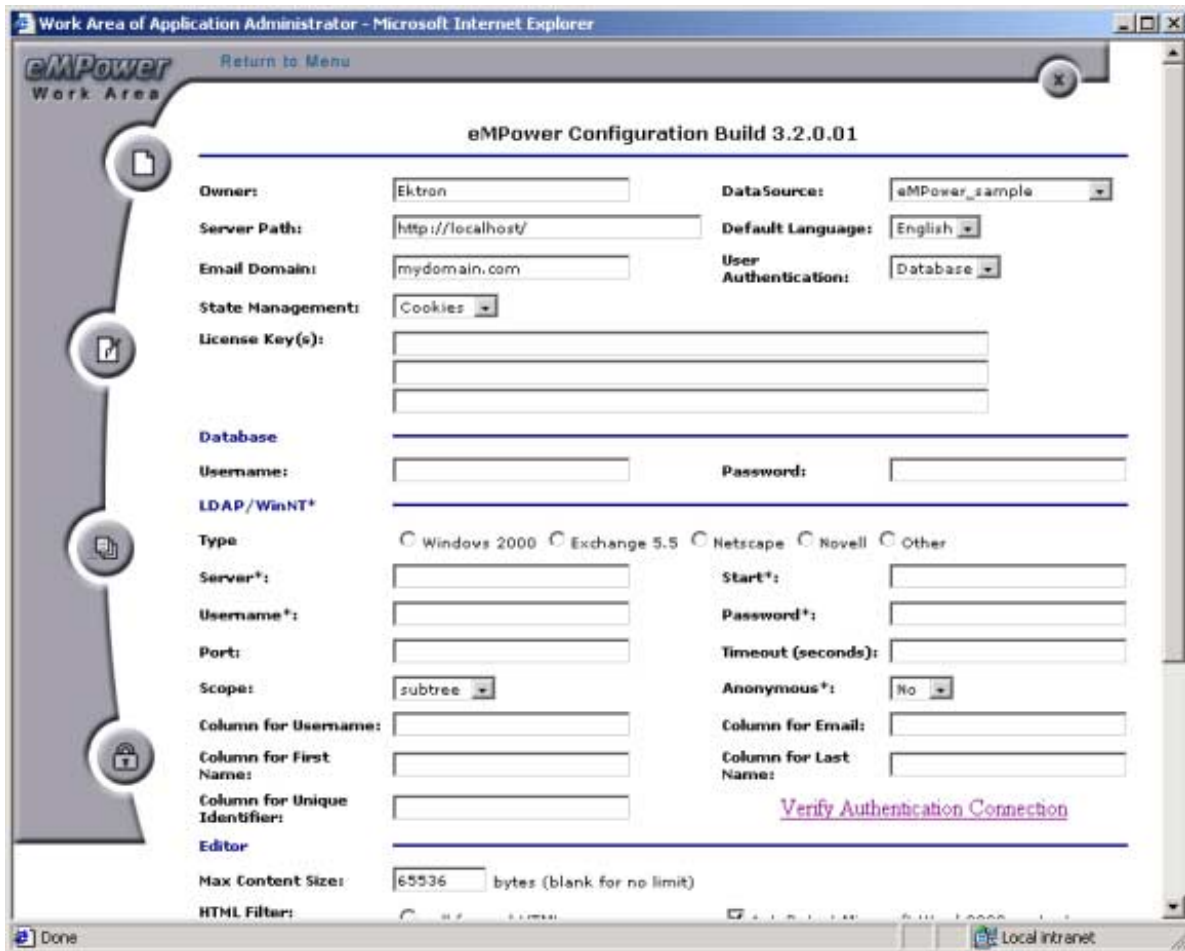
## *Enabling Authentication Services*

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 empsessions 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.



## 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	<i>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.</i>
Server	<i>LDAP/WinNT: The DNS name or IP address of the computer running the LDAP service.</i>

<b>Start</b>	<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).</p> <p>Example: If your domain was test.mysite.com, you would use:</p> <p>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>
<b>Username</b>	<p><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.</p>
<b>Password</b>	<p><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.</p>
<b>Port</b>	<p><b>LDAP Only:</b> The port used to communicate with the LDAP server. Default is 389.</p>
<b>Timeout</b>	<p><b>LDAP Only:</b> The amount of time that ColdFusion will allow for the LDAP server to respond. Default is 60 seconds.</p>
<b>Scope</b>	<p><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.</p>

<b>Anonymous</b>	<i><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.</i>
<b>Column for Username</b>	<i><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.</i>
<b>Column for Email</b>	<i><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.</i>
<b>Column for First Name</b>	<i><b>LDAP Only:</b> This is the fieldname within the LDAP database schema for the user's First Name. Default is "givenName".</i>
<b>Column for Last Name</b>	<i><b>LDAP Only:</b> This is the fieldname within the LDAP database schema for the user's Last Name. Default is "sn".</i>
<b>Column for Unique Identifier</b>	<i><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".</i>
<b>Verify Authentication Connection</b>	<i><b>LDAP/WinNT:</b> Used to test the parameters entered into the Setup page prior to updating the eMPower session manager file.</i>

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:

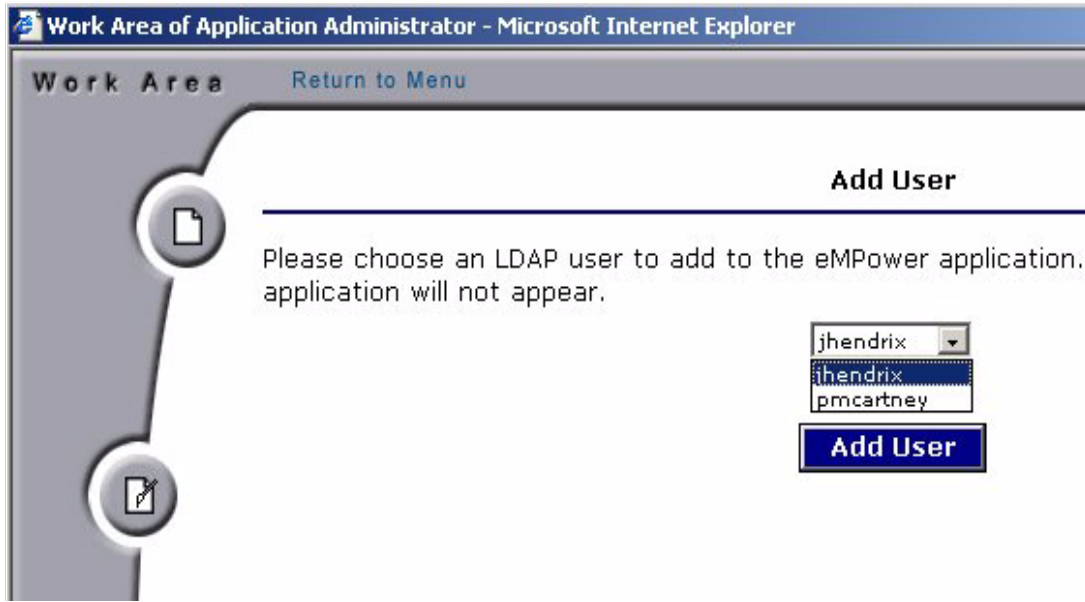


If you receive an error message, please refer to the troubleshooting section of this guide for more information.

**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

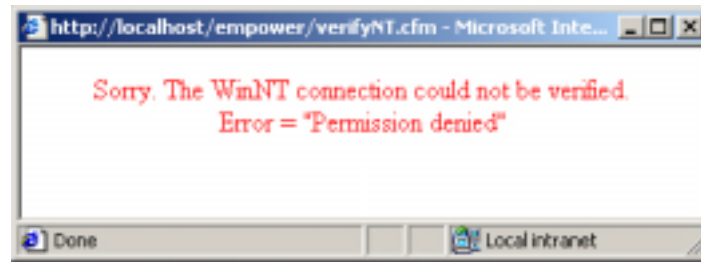
With a valid username and password on the LDAP services that eMPower is configured to, your user capabilities will be transparent. The only restriction is that users will not be able to edit their profile username or password. Usernames and passwords will be used from your LDAP service. Like NT Authentication,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

**eMPower Administrator Manual, Version 3.5**

for detailed information on using the eMPower content management system.

## Other Options

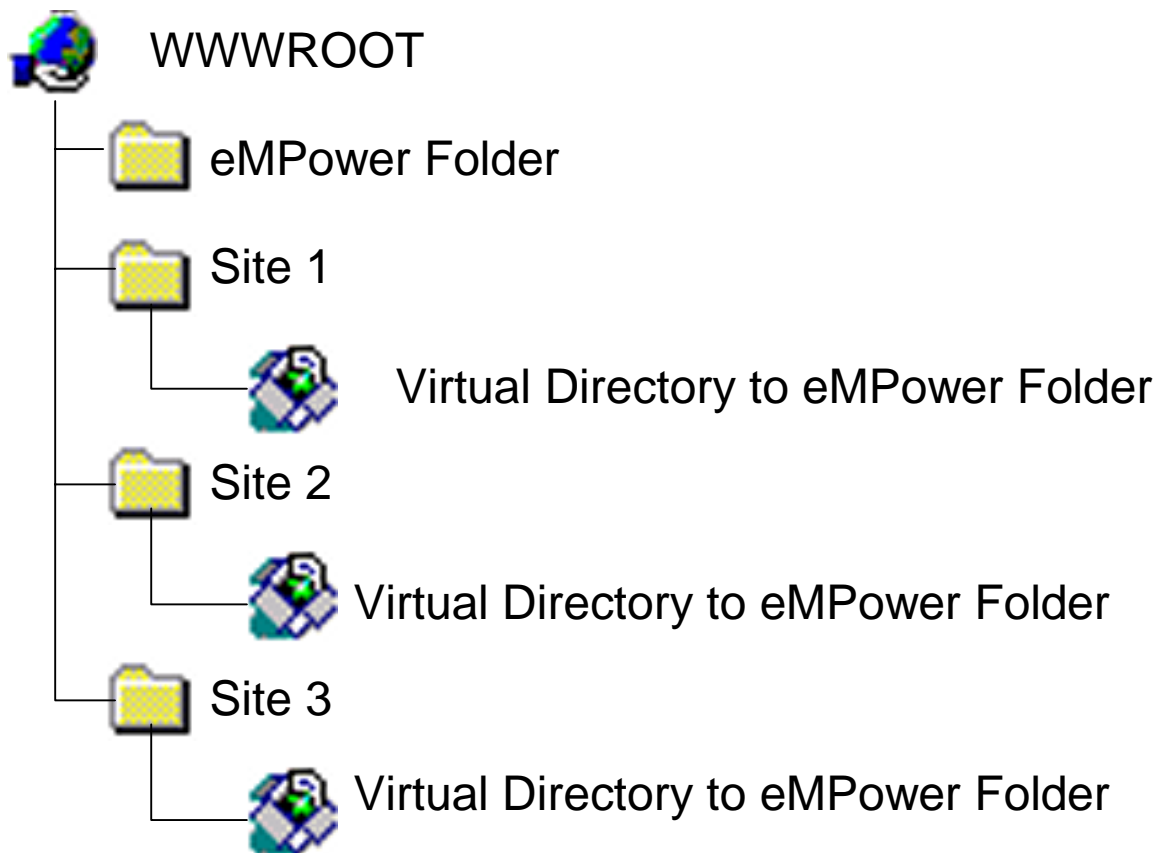
Aside from installing eMPower, you also have the option of choosing a different database to run eMPower on. For more information about databases, continue with this manual.

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

Otherwise, continue with the eMPower Administrator Manual.

# How To Run Multiple Sites With One eMPower Folder

## How would this configuration look?



## Advantages

Some customers choose this configuration so they can run multiple web sites off of one eMPower folder. Some Internet Service Providers, or hosts, prefer this configuration mainly because the virtual directory underneath each site limits the need of more than one physical eMPower folder on each server. The best part about this is configuration is maintenance. Instead of having to upgrade each site at a time, a customer could update the eMPower folder and all sites would automatically being updated. If



there was an eMPower folder physically below each site, each folder would have to be upgraded.

## Disadvantage

The main reason customers would choose to have a physical eMPower folder under each site instead of a virtual eMPower folder is because not all sites may want to upgrade at the same time.

## How to Set Up

1. Either run the install or extract the files from the zip file.
2. The eMPower folder must be located at the root of the web site.
3. Change the request.site\_path within each site's application.cfm file to be the path from the root of the server. For example, site 1 would have a site path of "/site1/" and site 2 would have a site path of "/site2/". If you had a site directly at the root, it's site path would be "/".
4. Create a Cold Fusion Mapping in the Cold Fusion Administrator for the empower folder in the root of your site. A common example would look like:  
Logical Path: /empower/  
Directory Path: C:/inetpub/wwwroot/empower/
5. Create Cold Fusion Mappings for each site. A common example would be:  
Logical Path: /site1/  
Directory Path: C:/inetpub/wwwroot/site1/
6. Open empower\_session\_manager.cfm file in each sites empowersessions folder and look for the following lines:  
//if you are running empower as a virtual directory uncomment the next line  
//request.ecm.empower.relative\_path="/";
7. Delete the first line and uncomment the second line so it reads:  
request.ecm.empower.relative\_path="/";

# Databases

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

1. Microsoft Access
2. Microsoft SQL Server
3. MySQL
4. Oracle
5. Sybase

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 4.5.1sp2 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 3.5

## Installing eMPower

First, install eMPower as described in the earlier chapter of installing eMPower for Windows.

## 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 v3.5 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 3.5.

## 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\_V32\_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 Webserver. 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

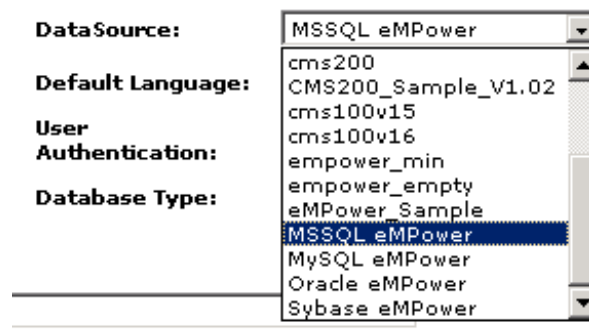
After you configure eMPower to use a MS-SQL database, you will then have the opportunity to configure the information via the eMPower Administrator Workarea.

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 be able to select it from the drop down list in the eMPower Administrator Workarea.



### *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.

---

<b>Data Source:</b>	eMPower_Sample ▾
<b>Default Language:</b>	English ▾
<b>User Authentication:</b>	Database ▾
<b>Database Type:</b>	MS-SQL ▾
	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 3.5

## Installing eMPower

First, install eMPower as described in the earlier chapter of installing eMPower for Linux or Unix.

## Setting MySQL as a Database Type

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`***

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=""`; Set the parameter in "" to MySQL as follows:

*change this name to MYSQL*  
`request.ecm.db.dbname="MYSQL";`



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:

<b>Data Source Name:</b>	<i>empower_sample</i>
<b>Database Name:</b>	<i>empower</i>
<b>Server Host Name:</b>	<i>localhost or [your ip or hostname]</i>
<b>Server Port:</b>	<i>3306 or [your specified mysql port]</i>
<b>ColdFusion Login:</b>	<b>Username:</b> <i>[username]</i> <b>Password:</b> <i>[password]</i>

**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*

Start `mysql` on your server from a terminal:

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

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');
```

Flush the hosts and privileges granted:

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

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*

Use the following to create a database named *empower*:

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

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 v32 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_V32_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 `empower30.zip` file.
2. You will need to run this from a ColdFusion enabled directory through your Windows Webserver. 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', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y', '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 be able to select it from the drop down list in the eMPower Administrator Workarea.

---

<b>Data Source:</b>	MySQL eMPower
<b>Default Language:</b>	cms200
<b>User Authentication:</b>	CMS200_Sample_V1.02
<b>Database Type:</b>	cms100v15
	cms100v16
	empower_min
	empower_empty
	eMPower_Sample
	MSSQL eMPower
	MySQL eMPower
	Oracle eMPower
	Sybase eMPower

## 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.

---

<b>Data Source:</b>	eMPower_Sample
<b>Default Language:</b>	English
<b>User Authentication:</b>	Database
<b>Database Type:</b>	MYSQL
	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 3.5

## Installing eMPower

First, install eMPower as described in the earlier chapter of installing eMPower for Linux or Unix.

## Setting Sybase as a Database Type

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`***

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=""`; Set the parameter in "" to MySQL as follows:

*change this name to SYBASE*  
`request.ecm.db.dbname="SYBASE";`



**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:

<b>Data Source Name:</b>	<i>empower_sample</i>
<b>Database Name:</b>	<i>empower</i>
<b>Server Host Name:</b>	<i>localhost or [your ip or hostname]</i>
<b>Server Port:</b>	<i>5000 or [your specified sybase port]</i>
<b>ColdFusion Login:</b>	<b>Username:</b> <i>[username]</i> <b>Password:</b> <i>[password]</i>

**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 **createV30emp\_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 v3.0 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\_samplev32\_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 empower30.zip file.
2. You will need to run this from a ColdFusion enabled directory through your Windows Webserver. 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

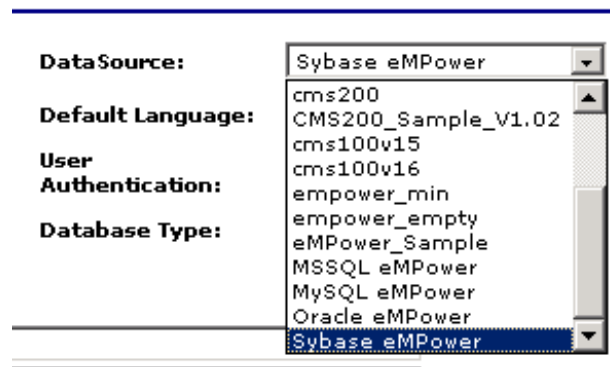
After you configure eMPower to use a Sybase database, you will then have the opportunity to configure the information via the eMPower Administrator Workarea.

From the Workarea, you can configure the:

- Datasource Name
- Database Type

## *Selecting the Datasource Name*

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



## *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.

---

**DataSource:** eMPower\_Sample ▾

**Default Language:** English ▾

**User Authentication:** Database ▾

**Database Type:** SYBASE ▾

- 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 3.5

## Installing eMPower

First, install eMPower as described in the earlier chapter of installing eMPower for Linux or Unix.

## Setting Oracle as a Database Type

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`**

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=""`; Set the parameter in `""` to ORACLE as follows:

*change this name to ORACLE*

```
request.ecm.db.dbname="ORACLE";
```

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 v3.1 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_samplev32_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 `empower30.zip` file.
2. You will need to run this from a ColdFusion enabled directory through your Windows Webserver. 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

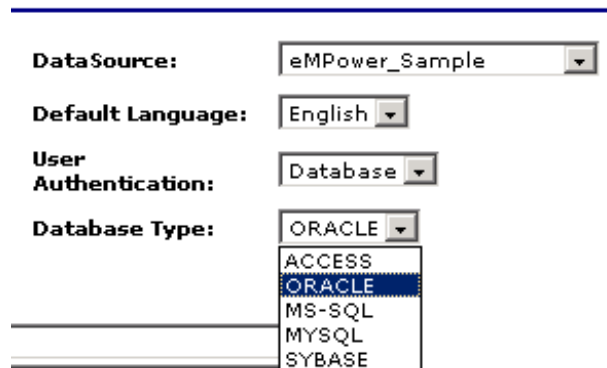
After you configure eMPower to use a Oracle database, you will then have the opportunity to configure the information via the eMPower Administrator Workarea.

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 be able to select it from the drop down list in the eMPower Administrator Workarea.



The screenshot shows a configuration form with the following fields:

- DataSource:** eMPower\_Sample
- Default Language:** English
- User Authentication:** Database
- Database Type:** A dropdown menu is open, showing the following options: ACCESS, ORACLE (highlighted), MS-SQL, MYSQL, and SYBASE.

### *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.

---

<b>DataSource:</b>	Oracle eMPower
<b>Default Language:</b>	cms200
<b>User Authentication:</b>	CMS200_Sample_V1.02
<b>Database Type:</b>	cms100v15
	cms100v16
	empower_min
	empower_empty
	eMPower_Sample
	MSSQL eMPower
	MySQL eMPower
	Oracle eMPower
	Sybase eMPower

---

# 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 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 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. To uninstall eWebEditPro perform the following steps:</p> <p>On the Desktop, click on My Computer:            Open C:\Windows\Downloaded Program Files\            IMAGE PLACEHOLDER            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>

ERROR	SUGGESTED ACTION
<p>Template Files Do Not Appear</p>	<p>If you create templates in the Explorer interface and .cfm template files do not appear in the webserver's filesystem, 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>
<p>HTTP/1.0 403 Forbidden</p>	<p>In a functioning eMPower website, the default page for the webserver 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 webserver. To correct this, simply change the default page back to index.cfm.</p>
<p>Issues After Upgrading</p>	<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>