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Ektron
eMPower
Authentication Manual

Version 3.7

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Esker Active X Plug-in

Active X controls under Netscape

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Introduction

eMPower version 3.1 now 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 3.1 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.

NOTE You must purchase the authentication module in order to install and use these add-on services for eMPower. Please ensure that you have done this prior to implementing these features into eMPower.

What This Guide 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 Guide 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 3.1 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
verifyldap.cfm and verifyNT.cfm	..\empower\
ecmntauthentication.cfm and empldap.cfm	..\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.

**Figure 1**

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 in **Figure 2**.

Work Area of Application Administrator - Microsoft Internet Explorer

Work Area Return to Menu

eMPower Configuration Build 3.1.0.03

Owner: Ektron DataSource: eMPower_sample

Server Path: http://127.0.0.1/ Default Language: English

Email Domain: mydomain.com User Authentication: Database

State Management: Cookies

License Key(s):

Database

Username: Password:

LDAP/WinNT+

Type: Windows 2000 Exchange 5.5 Netscape Novell Other

Server*: servename Start*:

Username*: jhendrix Password*: *****

Port: 389 Timeout (seconds): 60

Scope: subtree Anonymous*: Yes

Column for Username: samAccountName Column for Email: userPrincipalName

Column for First Name: givenName Column for Last Name: sn

Column for Unique Identifier: dn

Editor

[Verify Authentication Connection](#)

Done Local intranet

Figure 2

Options Explained

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

Table 1 describes the settings added to your configuration window (**Figure 2**). The parameters marked with an asterisk are required for using NT authentication. The rest of the parameters only apply to LDAP configurations.

Table 1

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	LDAP/WinNT: The DNS name or IP address of the computer running the LDAP service.
Start	<p>LDAP: 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 The actual structure of this will depend on how your LDAP service is configured.</p> <p>WinNT: The string defining the start of the search within the WinNT schema. This is usually limited to a group name. Ex: "engineering".</p>
Username	LDAP/WinNT: The username sent to the server during authenticated LDAP or WinNT data requests. Not used when <i>Anonymous</i> is set to YES.
Password	LDAP/WinNT: The password sent to the server during authenticated LDAP or WinNT data requests. Not used when <i>Anonymous</i> is set to YES.
Port	LDAP Only: The port used to communicate with the LDAP server. Default is 389.
Time-out	LDAP Only: The amount of time that ColdFusion will allow for the LDAP server to respond. Default is 60 seconds.
Scope	LDAP Only: This instructs LDAP to search for users in the selected <i>Start</i> location only, <i>BASE</i> setting, or the <i>Start</i> location and one level beneath, <i>ONELEVEL</i> setting, or the <i>Start</i> location and all levels beneath, <i>SUBTREE</i> setting.
Anonymous	LDAP/WinNT: 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.

Parameter	Description
Column for Username	LDAP Only: This is the fieldname within the LDAP database schema for the <i>username</i> . Default is "samAccountName" for Windows 2000 and "uid" for all others.
Column for Email	LDAP Only: This is the fieldname within the LDAP database schema for the user's <i>email address</i> . Default is "userPrincipalName" for Windows 2000 and "mail" for all others.
Column for First Name	LDAP Only: This is the fieldname within the LDAP database schema for the user's <i>First Name</i> . Default is "givenName".
Column for Last Name	LDAP Only: This is the fieldname within the LDAP database schema for the user's <i>Last Name</i> . Default is "sn".
Column for Unique Identifier	LDAP Only: This is the fieldname within the LDAP database schema for the user's <i>Unique Identifier</i> , commonly referred to as the <i>Distinguished Name</i> . Default is "dn".
Verify Authentication Connection	LDAP/WinNT: 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:

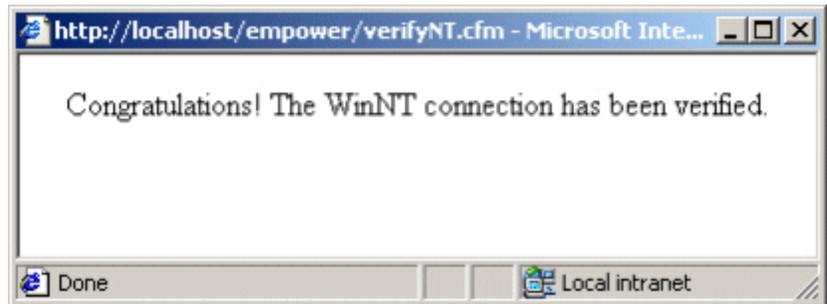


Figure 3

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.

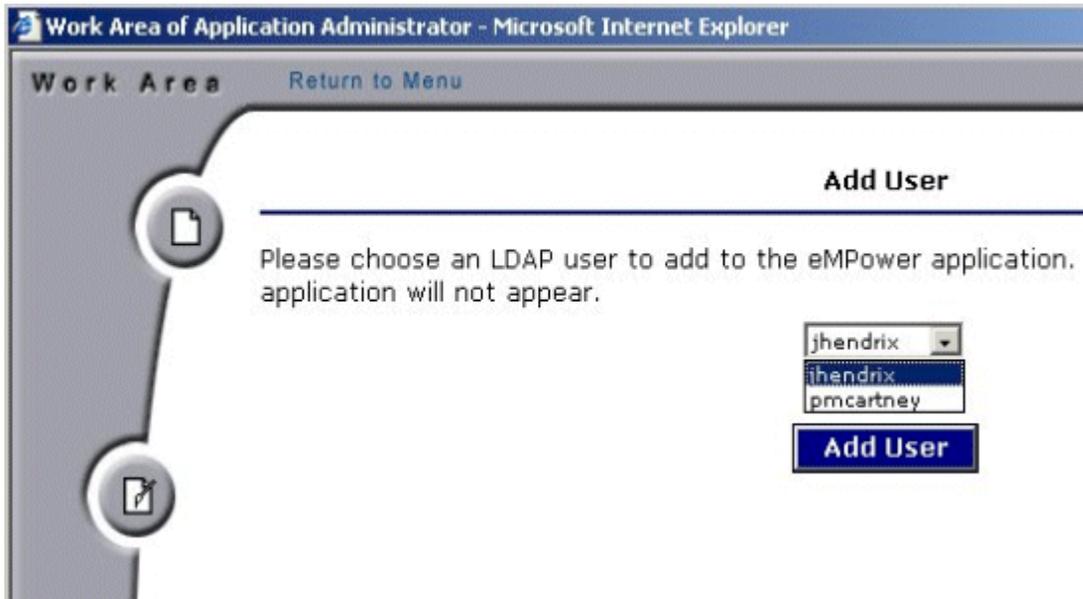


Figure 4

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 **Figure 4**.
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 reorder 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



Figure 5

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 in **Figure 5**. 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



Figure 6

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

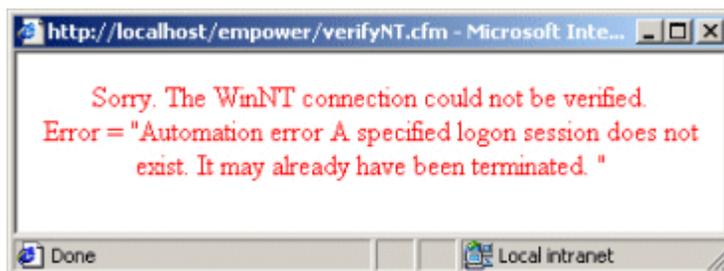


Figure 7

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

Login Button Showing Up as Broken Image



Figure 8

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.