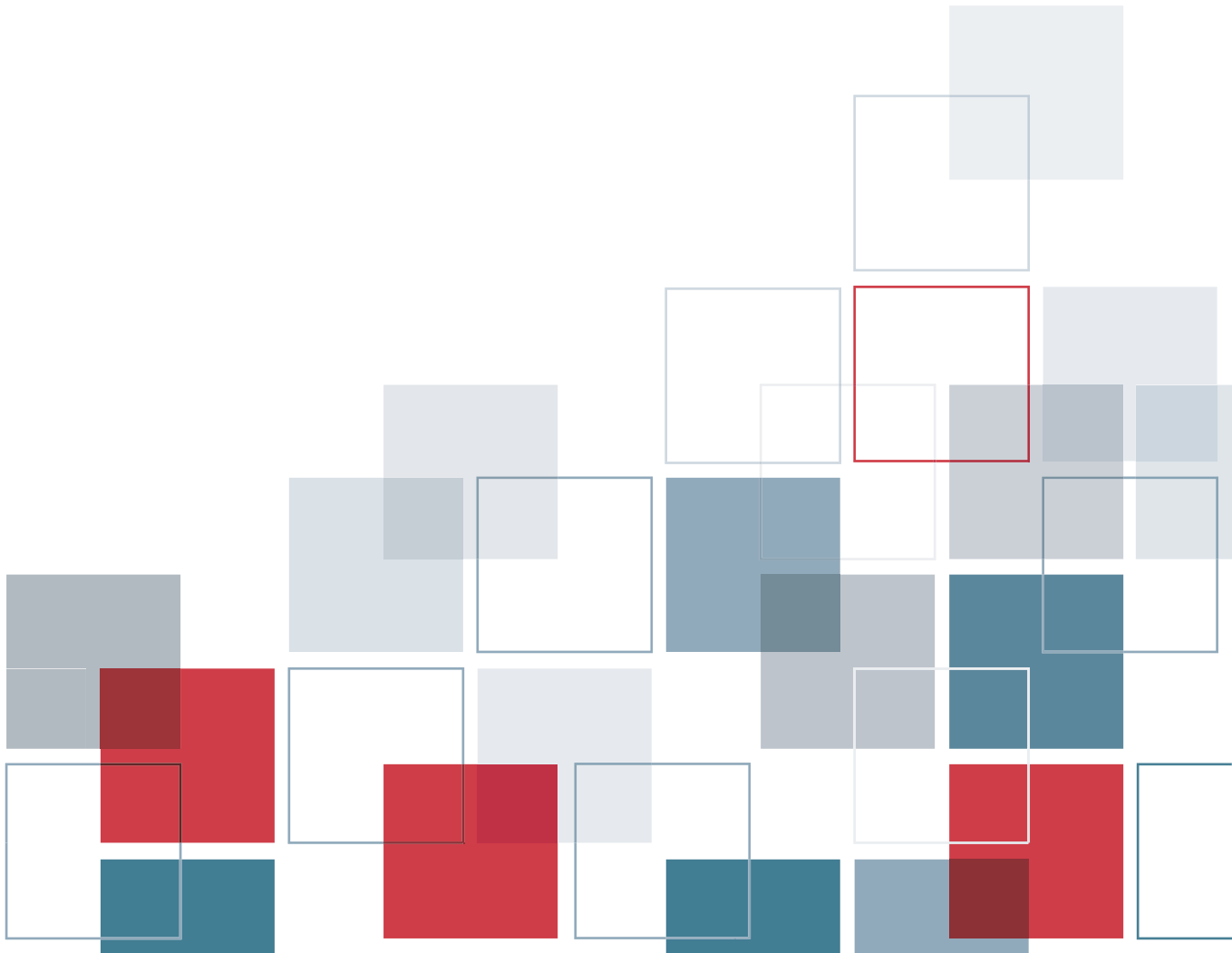




> ShowCase® Essbase®
External Authentication via LDAP



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1 2 3 4 5 6 7 8 9 0 08 07 06 05

Preface

Welcome to the *ShowCase® Essbase® External Authentication via LDAP* guide. This guide discusses the process of enabling Essbase external authentication using LDAP on the iSeries.

This preface provides the following information:

- What is included in this guide
- Where to find additional information
- How to contact the documentation team to provide feedback about this guide

About This Guide

Chapter 1, “Technical Support,” contains contact information.

Chapter 2, “ShowCase Essbase External Authentication via LDAP,” provides information on using LDAP, starting the directory server, distinguished names, and configuring Essbase for LDAP.

Additional Resources

- For information on getting started, licensing, passwords, and installation instructions, see the appropriate *ShowCase Essbase Installation Guide*.
- See the online Help in each application or the *Quick Start* guides on the Support Web site at <http://support.spss.com>. After you log on, click Documentation and then ShowCase Documentation.
- For information about upgrading to ShowCase Essbase, see the appropriate *ShowCase Essbase Upgrade Guide* at <http://support.spss.com/upgradeinfo/>.

For the latest updates regarding ShowCase Essbase, see the Readme at <http://support.spss.com>. After you log on to the SPSS Technical Support site, click Documentation and then ShowCase Documentation.

Finding Documentation

You can view and download ShowCase Essbase documentation from the SPSS Technical Support site at <http://support.spss.com>. You can access Hyperion Essbase documentation on the CD or after you install the product. From the Windows Start menu, choose:

Programs
Hyperion Solutions

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Your comments are important to us. Please tell us what you think about the ShowCase Essbase documentation by contacting:

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E-mail: *documentationroch@spss.com*

Customer Service

If you have questions concerning your shipment or account, call your local office, listed on the SPSS Web site at *<http://www.spss.com/worldwide/>*.

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Technical Support

Contacting SPSS Technical Support

Phone. Our goal is to provide one-on-one technical support. However, based on the complexity and/or frequency of calls, you may reach our phone-mail system. Leave your name, company name, and telephone number, and a technical support member will call you back.

Fax. Send your name, company name, and telephone and fax numbers, along with the details of your request and the name of the product with which you need assistance.

Internet. Enter your questions and requests on the SPSS Technical Support Web site. You can also use the site to find documentation, search resolutions, download patches, open a case, and participate in the customer forum. See “Technical Support Web Site” below.

E-mail. Include your name, e-mail address, company name, the feature you have a question about, and your question or request.

Technical Support Web Site

Table 1-1
Internet addresses

Site	Address
Technical Support Web site	http://support.spss.com
SPSS Web site	http://www.spss.com
Documentation team e-mail	documentationroch@spss.com

If you are a ShowCase maintenance customer, you can apply for a personalized ID for the Technical Support Web site. If you do not already have an ID, access the SPSS Technical Support Web site at <http://support.spss.com> and apply for an ID. Information such as the following is available after you log on:

Troubleshooting. Search for a resolution, view frequently used resolutions, open a technical support case, and view the status of your cases.

Documentation. Read technical support policies, browse the technical support newsletters for technical issues, or view and download the latest documentation.

Supported Platforms. Find supported ShowCase software versions, release dates, end dates, iSeries and PC operating systems, and Web browsers.

Upgrade Info. Order an upgrade and view upgrade information pertinent to each release.

Patches. Download patches for all supported products.

My Corporate Info and My Personal Info. View your agreements, passwords, cases, and other status information.

Contact Us. Find the most current technical support phone numbers, e-mail addresses, and fax numbers for North America, Europe, and Japan/Asia Pacific. You can also open a case here.

Customer Forum. Network with other maintenance customers in this discussion group.

Other Links. Find information about products, training, and upcoming events.

Technical Support for North America

For the most current contact information, log on to the SPSS Technical Support Web site at <http://support.spss.com>.

Table 1-2

Technical support and services information for North America

Service	Phone	Fax	E-mail
North American technical support (relational products)	(507) 288-5922 option 2, then option 1	(507) 287-2809	scsupport@spss.com
North American technical support (multidimensional products)	(507) 288-5922 option 2, then option 2	(507) 287-2809	scsupport@spss.com
Product training and consulting services	(800) 543-2185		sales@spss.com

Technical Support for Europe

For the most current contact information, log on to the SPSS Technical Support Web site at <http://support.spss.com>.

Table 1-3

Technical support information for Europe

Country	Language	Phone	Fax	E-mail
Austria	German	49 89 48 9047 333	49 89 44 83115	suppge@spss.com
Belgium	Dutch	32 2 477 17 00	32 2 474 03 63	eursupport@spss.com
Belgium	French	32 2 477 17 01	32 2 474 03 63	eursupport@spss.com
Belgium	German	32 2 477 17 02	32 2 474 03 63	eursupport@spss.com
Denmark	English	45 361 58731	32 2 474 03 63	eursupport@spss.com
France	French	33 155 21 25 32	32 2 474 03 63	eursupport@spss.com
Germany	German	49 89 48 9074 333	49 89 44 83115	suppge@spss.com
Italy	Italian and English	39 0280 663036	32 2 474 03 63	eursupport@spss.com
Luxembourg	French	32 2 477 17 03	32 2 474 03 63	eursupport@spss.com
Switzerland	French	33 155 21 25 32	32 2 474 03 63	eursupport@spss.com
Switzerland	German	49 89 48 9047 333	49 89 44 83115	suppge@spss.com
The Netherlands	Dutch	31 205 82 94 96	32 2 474 03 63	eursupport@spss.com
United Kingdom	English	44 1483 719 202	44 1483 719 290	support@spss.co.uk

Technical Support for Japan and Asia Pacific

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Table 1-4

Technical support information for Japan and Asia Pacific

Region	Phone	Fax	E-mail
Japan and Asia Pacific	81 3 5466 5674	81 3 5466 5622	<i>jpscsupport@spss.com</i>

ShowCase Essbase External Authentication via LDAP

A typical Lightweight Directory Access Protocol (LDAP) server is a simple network-accessible database where an organization stores information about its authorized users and the privileges each possesses. LDAP can, for example, allow an organization to create a new employee account on 50 different systems. The new employee is entered into LDAP and granted rights to those 50 systems. If the employee leaves, revoking all privileges is as simple as removing one entry in the LDAP directory.

This guide will help you enable Essbase external authentication using LDAP on the iSeries. It includes:

- Tasks to complete before you begin
- Starting the Directory (LDAP) Server
- Introduction to Distinguished Names
- Working with suffixes
- Verifying LDAP users on the Directory (LDAP) Server
- Adding an entry to the Essbase CFG file
- Adding LDAP users to Essbase with Essbase Administration Services (EAS) Console

Before You Begin

Before you begin, you should:

1. Have a basic understanding of LDAP and how you will use it in your organization. For more information, see:

<http://publib.boulder.ibm.com/series>

Select V5R3 or the appropriate V5R2 language. For an overview of LDAP for V5R3, type Directory Server for iSeries in the Search field. For an overview of LDAP for V5R2, type LDAP basics in the Search field.

2. Add users to the System Distribution Directory in preparation for publishing them to your LDAP Server (Directory Server). This can be performed on the iSeries via the `ADDDIRE` or `WRKDIRE` commands (use Option 1 to add).

Note: As an alternative to using the iSeries to add users to the System Distribution Directory, you can add users via the IBM Directory Server Web Administration Tool (V5R3) or the IBM SecureWay Directory Management Tool (V5R2). For instructions, visit the Web site described in Step 1.

3. Configure your LDAP Server (Directory Server). During this process, you will publish the System Distribution Directory entries (users) to the Directory Server using iSeries Navigator (iSeries Navigator must be installed on a PC that is connected to your system). For instructions, go to:
<http://publib.boulder.ibm.com/series>

Select V5R3 or the appropriate V5R2 language. Type Configure Directory Server (V5R3) or Configuring LDAP (V5R2) into the Search box, and follow the instructions on the appropriate instructional page.

Note: There is no requirement that your Essbase and LDAP servers reside on the same system. If the two are located on different systems, you can still set up external authentication via LDAP given that the LDAP Server node is reachable from the Essbase Server node.

Using LDAP

The following functions must be performed using an LDAP client, such as the IBM SecureWay Directory Management Tool or the LDAP client shipped with your iSeries system. The functions cannot be performed using Essbase.

- Adding, deleting, or modifying the LDAP Server Database.
- Changing an LDAP profile password.

Starting the Directory (LDAP) Server

Many of the procedures in this chapter require that the OS/400 Directory (LDAP) Server be running. Verify that the server is running before continuing.

To check if the server is running

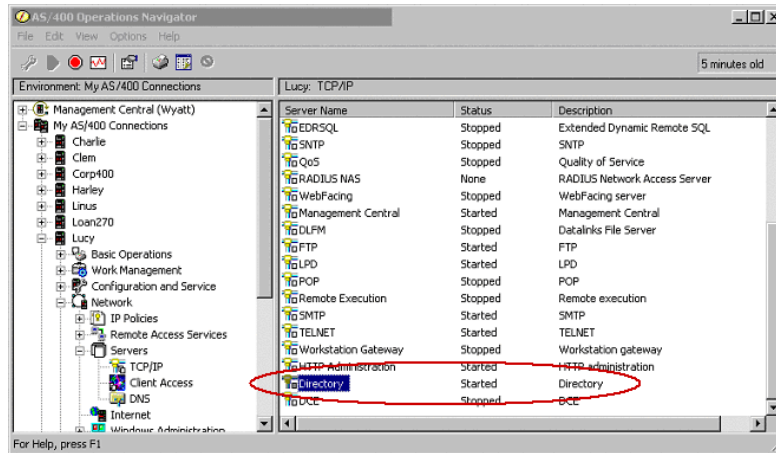
- ▶ From the iSeries command prompt, type the command `NETSTAT *CNN`. In the Local Port column, locate the LDAP entry (you can also find it by searching for port 389, which is the default LDAP port). The server is running if it reads Listen in the State column.

OR

1. Open iSeries Navigator.
2. Expand the server you want to work with.
3. Expand Network.
4. Expand Servers.
5. Highlight TCP/IP. You will see a list of servers in the right-hand pane.

6. The Status column for the Directory Server should read Started. See the following figure.

Figure 2-1
Working with the Directory Server



To start the server

- ▶ You can start the Directory Server from the iSeries Navigator console.
- OR
- ▶ At an iSeries command line type the `STRTCPSVR (*DIRSRV)` command.

Distinguished Names

As part of your LDAP directory service setup, your directory server database should have entries (user profiles for instance) arranged in a hierarchical structure that reflects geographic or organizational boundaries. A typical LDAP Server identifies these entries using unique names called Distinguished Names (DN). A DN may have several parts specified by several keywords. These parts must be specified properly before the LDAP Server can locate an entry in its database. Here are two DN examples:

- **Example 1:** `cn=John Doe, cn=Engineers, ou=mycity, o=mycompany`
- **Example 2:** `uid=John Doe, ou=Students, o=myschool, dc=edu`

To allow the LDAP Server to manage part of an LDAP directory, you must specify part of the DN referred to as the suffix. The suffix excludes the username portion (such as the `cn` or `uid` parameter). The server can access all objects below the specified suffix in the directory hierarchy.

For example, if an LDAP server contained the directory shown in Example 1, it would need to specify the suffix `cn=Engineers, ou=mycity, o=mycompany` in its configuration to answer client queries regarding “John Doe.”

As part of the LDAP setup for Essbase, you will place this suffix in the Essbase CFG file (see “Adding an Entry to the Essbase CFG File” on p. 11).

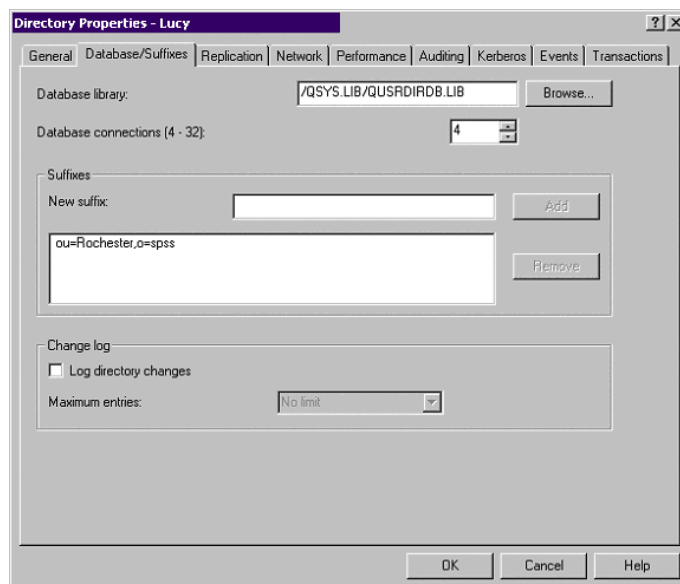
Working with Suffixes

To add, remove, or verify suffixes, use iSeries Navigator:

1. Open iSeries Navigator.
1. Expand the server you want to work with.
2. Expand Network.
3. Expand Servers.
4. Highlight TCP/IP. You will see a list of servers in the right-hand pane.
5. Right-click on the Directory Server, and select Properties.
6. On the Databases/Suffixes tab, you can add, remove, or verify suffixes.

Note: The appearance of the Directory Properties dialog box may differ depending on the OS/400 version used.

Figure 2-2
Verifying a suffix

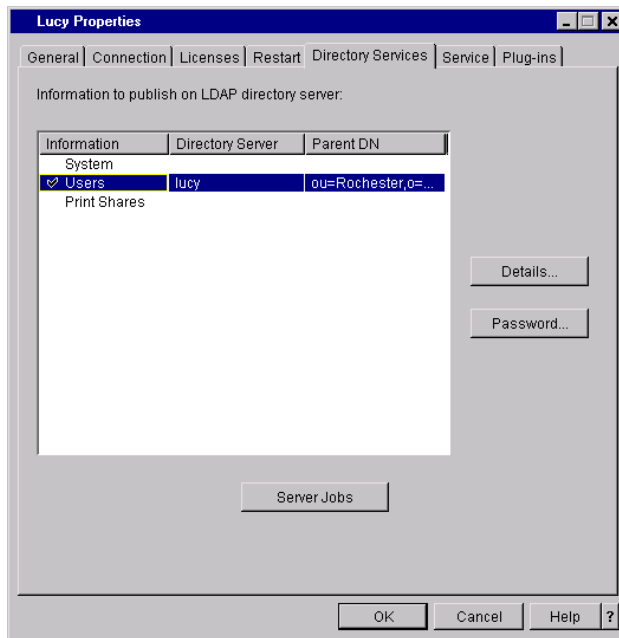


Verifying LDAP Users on the Directory Server

Before users can be authenticated via LDAP, they must exist on the Directory Server and in Essbase. This section helps you verify that users exist on the Directory Server. To add LDAP users to Essbase, see “Adding LDAP Users to Essbase” on p. 12.

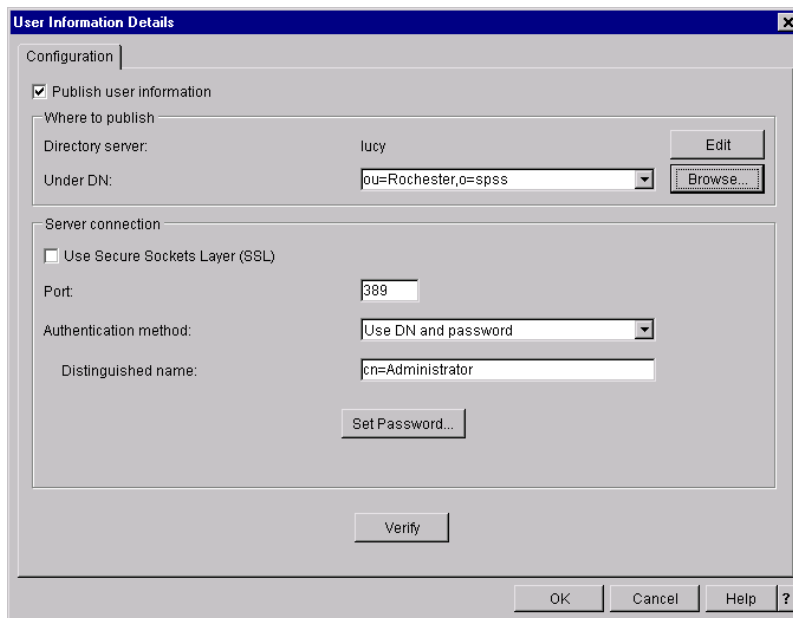
1. In iSeries Navigator, right-click your iSeries server, and choose Properties.
2. On the Directory Services tab, highlight Users and click Details.

Figure 2-3
Getting details on users for the directory server



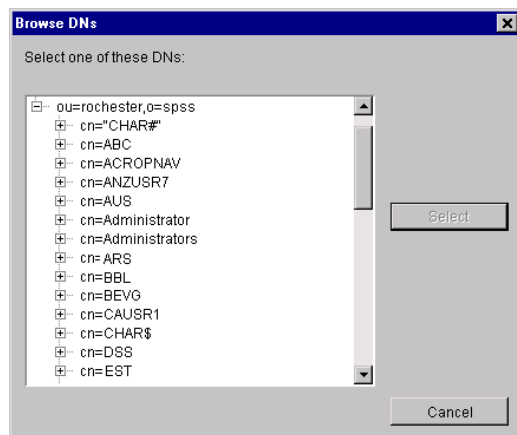
3. On the Configuration tab, choose the suffix you configured, and click Browse.

Figure 2-4
Choosing your suffix to verify users



4. In the Browse DNs dialog, when you expand your suffix entry, you should see all the users you added to the Directory Server.

Figure 2-5
Verifying users on the Directory Server



5. If no users exist, populate your Directory Server using the instructions in “Before You Begin” on p. 5 .

Configuring ShowCase Essbase to Allow External Authentication via LDAP

Before you continue, install ShowCase Essbase. The basic steps in configuring Essbase to use LDAP are:

1. Add an entry to the Essbase CFG file.
2. Add LDAP users to Essbase via the Essbase Administration Services (EAS) Console.

Support for User Implemented Authentication Modules

Starting with the ShowCase Essbase 7.x release, you can use your own implementation of the authentication module in lieu of the SPSS provided LDAP authentication module. This provides options for additional functionality in your authentication module (specifying a service program for example).

If you choose to use the SPSS supplied authentication module, use the following syntax:

```
AUTHENTICATIONMODULE LDAP ESSLDAP X DC=ROCHESTER,DC=SPSS,DC=COM@ROCHESTER.SPSS.COM:389
```

If you choose to use your own implementation, specify the name of the service program in place of ESSLDAP:

```
AUTHENTICATIONMODULE LDAP NEWLDAPDLL X  
DC=ROCHESTER,DC=SPSS,DC=COM@ROCHESTER.SPSS.COM:389
```

In this case you will need to copy the NEWLDAPDLL service program into the Essbase library.

Note: SPSS provides usage and defect support for `ESSLDAP`, but not for the user-implemented service programs. Refer to the Hyperion documentation on external authentication for additional information on which functions to implement in a service program.

Adding an Entry to the Essbase CFG File

The `AUTHENTICATIONMODULE` keyword indicates to Essbase that external authentication is available. You can find additional information on this keyword in the *Hyperion Technical Reference*. The SPSS-supplied authentication module supports all elements for this keyword, as described by Hyperion, except for *library-name*. Since ShowCase Essbase does not use a library (or a DLL), this parameter is not needed and is ignored. Use the following syntax when using the SPSS-supplied authentication module:

```
AUTHENTICATIONMODULE LDAP ESSLDAP X DC=ROCHESTER,DC=SPSS,DC=COM@ROCHESTER.SPSS.COM:389
```

If you choose to use your own implementation, specify the name of the service program in place of `ESSLDAP`:

```
AUTHENTICATIONMODULE LDAP NEWLDAPDLL X DC=ROCHESTER,DC=SPSS,DC=COM@ROCHESTER.SPSS.COM:389
```

- The `LDAP` parameter indicates LDAP is used for external authentication.
- `ESSLDAP` represents the SPSS-supplied authentication module.
- `NEWLDAPDLL` represents the user-implemented authentication module.
- `X` indicates maximum wait time in seconds before the request is aborted.
- `DC=ROCHESTER,DC=SPSS` is the suffix portion of the DN. Specify your unique suffix here.
- `@` is a required key that indicates the beginning of an LDAP Server Name. The LDAP Server name (or IP Address) must follow this entry.
- `ROCHESTER.SPSS.COM` is the LDAP Server that authenticates login requests. Specify your LDAP Server name here.
- `389` is the LDAP Server port on `ROCHESTER.SPSS.COM`. Specify your LDAP port number here.

To Edit the Essbase CFG File

1. Start the Directory Server. For more information, see “Starting the Directory (LDAP) Server” on p. 6.
2. Refer to chapter 5, “Essbase Server Maintenance” in the ShowCase Essbase Administrator’s Guide for instructions on modifying the *essbase.cfg* file.
3. Use the iSeries `EDTF` command to add the `AUTHENTICATIONMODULE` entry to your CFG file:


```
EDTF FILE(ESSBASELIB/CFG) MBR(ESSBASE)
```

 where `ESSBASELIB` is your Essbase installation library.
4. To insert a new line into the file, enter ‘I’ on the line next to an existing entry.
5. Add your `AUTHENTICATIONMODULE` entry, using the example above as a guide.

Example entry:

```
*****Beginning of Data*****
____ AUTHENTICATIONMODULE LDAP ESSLDAP 10 CN=ENGINEERS,OU=ROCHESTER,O=SPSS@OURSERVER.SPSS.COM:389
*****End of Data*****
```

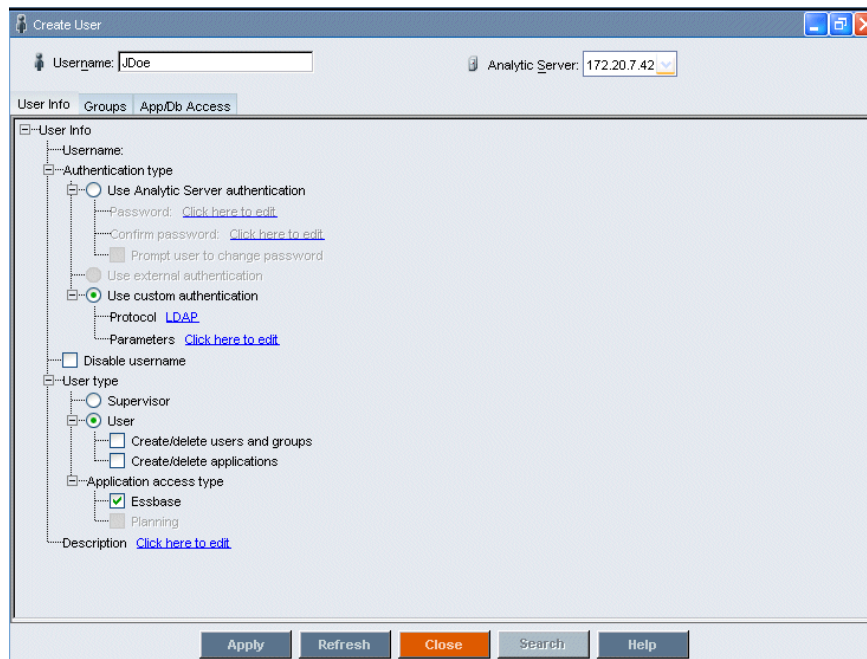
6. Press F3 to save the file and exit.
7. Stop the Essbase OLAP Server (ENDESSSVR) and restart it (STRESSSVR) to initialize your changes.

Adding LDAP Users to Essbase

1. Start the Directory Server. For more information, see “Starting the Directory (LDAP) Server” on p. 6.
2. To use external authentication of users, instead of assigning an Essbase password for logins, use the Essbase Administration Services (EAS) Console to add LDAP users to Essbase and enable custom authentication. For step-by-step instructions, see the “Managing Custom Authentication” topic in the Essbase Administration Services Online Help.

In the Create User dialog, be sure to select Use custom authentication in the Authentication Type section. Type LDAP for Protocol. You may also specify valid parameters in the Parameters field, but this is not required.

Figure 2-6
Adding a user to LDAP



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