Oracle® WebCenter Sites

Integrating with LDAP

11*g* Release 1 (11.1.1)

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ORACLE®

Oracle® WebCenter Sites: Integrating with LDAP, 11*g* Release 1 (11.1.1)

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About This Guide

This guide contains procedures for integrating Oracle WebCenter Sites with supported LDAP servers.

The *Oracle WebCenter Sites* application, discussed in this guide, is a former FatWire product. *Oracle WebCenter Sites* is the current name of the application previously known as *FatWire Content Server*. In this guide, *Oracle WebCenter Sites* is also called *WebCenter Sites*.

Audience

This guide is intended for installation engineers with experience installing and configuring enterprise-level software, including LDAP servers and databases.

Related Documents

For more information, see the following documents:

- *Oracle WebCenter Sites: Configuring Supporting Software*
- *Oracle WebCenter Sites Administrator's Guide*

Conventions

The following text conventions are used in this guide:

- **Boldface** type indicates graphical user interface elements that you select.
- *Italic* type indicates book titles, emphasis, or variables for which you supply particular values.
- `Monospace` type indicates file names, URLs, sample code, or text that appears on the screen.
- **`Monospace bold`** type indicates a command.

Graphics Used in This Guide

Graphics in this guide are screen captures of dialog boxes and similar windows that you will interact with during the integration process. These graphics are presented to help you

follow the integration process. They are not intended to be sources of information such as parameter values, options to select, and product version numbers.

Third-Party Libraries

Oracle WebCenter Sites and its applications include third-party libraries. For additional information, see *Oracle WebCenter Sites 11gR1: Third-Party Libraries*.

Chapter 1

Oracle WebCenter Sites-LDAP Integration Overview

This chapter provides an overview of your options to integrate Oracle WebCenter Sites with an LDAP server.

This chapter contains the following sections:

- Introduction
- LDAP Integration Options

Introduction

WebCenter Sites connects to an authentication system through the Directory Services API. This API provides out-of-the-box support for two types of authentication systems:

- The native authentication system, which validates WebCenter Sites users against the WebCenter Sites user management tables `SystemUsers` and `SystemUserAttrs`.

- External directory server (LDAP server), which must be integrated with WebCenter Sites in order to validate WebCenter Sites users against the users that are listed in the directory server's database.
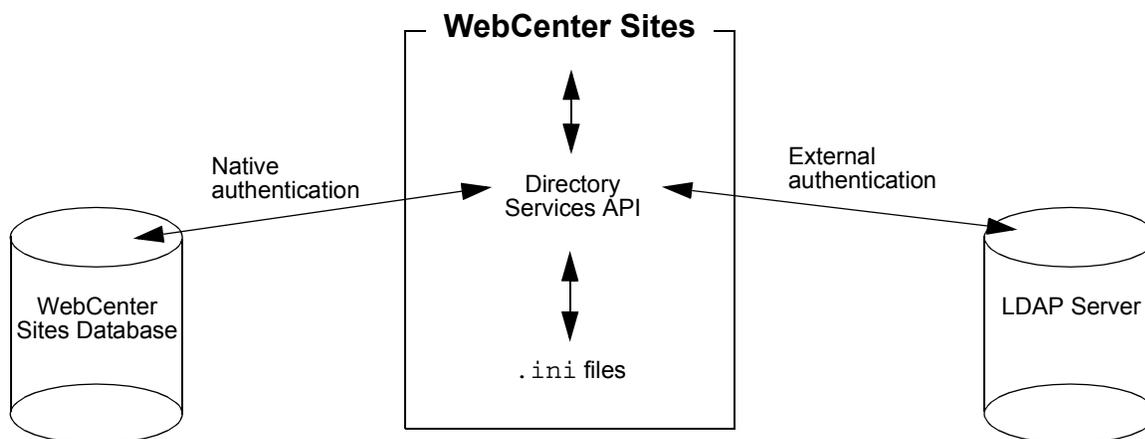
Note

External user managers can also be integrated with WebCenter Sites, but must be customized to authenticate and/or authorize users.

LDAP Integration Options

The following types of external directory servers can be integrated with WebCenter Sites:

- Flat schema LDAP, which provides authentication and authorization services for web applications. LDAP schema is automatically configured when you run the WebCenter Sites-LDAP integrator (included with WebCenter Sites). The integrator requires you to first install a supported LDAP server (listed in the *Oracle WebCenter Sites Certification Matrix*).

- Hierarchical schema LDAP, which provides authentication and authorization services for web applications and requires manual integration with WebCenter Sites.

Both integration options involve connecting the LDAP server to the Directory Services API by setting connection properties in the WebCenter Sites `futuretense.ini`, `futuretense_xcel.ini`, and `dir.ini` files. Integration is complete when the

WebCenter Sites user data is written to the LDAP server. Which type of data must be written depends on LDAP schema:

- Flat schema LDAP requires authentication and authorization to be managed in the LDAP server, which means that WebCenter Sites users, ACLs, roles, and sites must be written to LDAP. Users include user accounts, user profiles, and user attributes.

- Hierarchical schema LDAP requires only authentication to be managed in the LDAP server, which means that only users and ACLs must be written to LDAP. (Again, users include user accounts, user profiles, and user attributes.)

  Writing roles and sites is optional. Choosing this option requires you to create a site organizational unit in the LDAP server by subordinating the WebCenter Sites roles to their relevant sites.

Table 1 summarizes LDAP schema and integration requirements.

Table 1: LDAP Integration Requirements

Integration Type / Method	Flat Schema LDAP		Hierarchical Schema LDAP	
	Authentication	Authorization	Authentication	Authorization
WebCenter Sites Web Application	Required	Required	Required	Optional
Method	Integrator writes WebCenter Sites users and ACLs to LDAP	Use integrator or manually write WebCenter Sites roles and sites to LDAP	Integrate manually	Integrate manually

- For procedures on integrating with flat schema LDAP, see Chapter 2, "Integrating with Flat Schema LDAP Servers."

- For procedures on integrating with hierarchical schema LDAP, see Chapter 3, "Integrating with Hierarchical Schema LDAP Servers."

Chapter 2

Integrating with Flat Schema LDAP Servers

This chapter provides instructions for using Oracle's integrator to automatically integrate WebCenter Sites with a supported LDAP server. The integrator configures a flat schema for authentication and authorization services for the WebCenter Sites web application.

This chapter contains the following sections:

- WebCenter Sites-LDAP Integrator
- Running the WebCenter Sites-LDAP Integrator
- Completing the Integration
- Post-Integration Steps When CM Sites Have Not Been Created
- Testing the Integration

WebCenter Sites-LDAP Integrator

Oracle's LDAP integrator requires a fully functional WebCenter Sites web application and a pre-installed, supported LDAP server.

The integrator works by first prompting you for parameters relating to your WebCenter Sites installation and LDAP server. When you provide the requested information and click **Install**, the integrator uses your inputs to perform the following steps:

1. The integrator sets LDAP connection properties in the WebCenter Sites `futuretense.ini`, `futuretense_xcel.ini`, and `dir.ini` files in order to:

   - Establish communication between the LDAP server and the WebCenter Sites Directory Services API.

   - Enable the LDAP server to recognize the user that WebCenter Sites will invoke to query the LDAP server.

   - Configure a flat schema.

   - Modify the LDAP database to use WebCenter Sites ACLs in LDAP format.

   For a listing of the LDAP connection properties that are set by the integrator, see Chapter 3, "Integrating with Hierarchical Schema LDAP Servers." (Note that the properties for flat and hierarchical schema are identical; only the values differ.)

2. In its final steps, the integrator does one of the following, depending on the option you selected:

   - If you selected the **Automatic** option, the integrator loads the LDAP server with the WebCenter Sites information — users, ACLs, roles, and sites to which the roles apply.

   - If you selected **Manual**, the LDAP integrator requires an LDAP user with write permissions to manually write users, ACLs, and roles (including their relevant sites) to the LDAP server, either directly or via an `ldif` file. This information is written once the integrator completes its process.

3. Regardless of which option you selected (**Automatic** or **Manual**), you will have to complete the integration by resetting (in the LDAP server) the passwords of WebCenter Sites users.

Running the WebCenter Sites-LDAP Integrator

To integrate with flat schema LDAP, complete the steps in the following sections:

- Prerequisites
- Integration Steps

Prerequisites

Before integrating WebCenter Sites with LDAP, prepare your system:

1. The LDAP integrator can run only on a WebCenter Sites full product release. Perform LDAP integration before any hot-fixes or patches are installed.

2. Make sure WebCenter Sites is installed on one of the supported platforms and is fully functional. Currently supported platforms are listed in the *Oracle WebCenter Sites Certification Matrix*.

    For WebCenter Sites installation instructions and verification tests, refer to the WebCenter Sites installation guide for your platform.

3. Back up the entire WebCenter Sites system. If the integration fails, you can recover the `ldif` file and import it manually to restore the WebCenter Sites users and permissions.

4. Make sure the LDAP server is ready for integration:

    a. If a supported LDAP server is not installed, install it now. (For the list of currently supported LDAP servers, refer to the *Oracle WebCenter Sites Certification Matrix*.)

    b. Note the following parameters. You will supply values for them during the integration process:

        - LDAP host name (or IP address)

        - LDAP port number

        - People parent DN

        - Group parent DN

        - Base DN, if you are using Sun JES Directory Server

    c. Determine whether the user connecting to LDAP will be the same user that is logged in to WebCenter Sites. If the connecting user is *not* a WebCenter Sites user, you will need to provide a user name and password.

5. During the integration process, you will be prompted to select either the **Automatic** or **Manual** integration option.

    - If you have write permissions to the LDAP server, select **Automatic**. The integrator will write the WebCenter Sites users, ACLs, roles, and sites to the LDAP server.

    - If you do not have write permissions to the LDAP server, you will select **Manual** and continue to run the integrator. When the integrator completes its process, an LDAP user with write permissions must be available to complete the integration.

Integration Steps

In this section you will run the WebCenter Sites-LDAP integrator (included on the WebCenter Sites CD) to integrate WebCenter Sites with a supported LDAP server of your choice.

To integrate WebCenter Sites with LDAP

1. If you have not already done so, decompress the WebCenter Sites installation archive to a temporary directory and change to that directory.

2. Run the WebCenter Sites integrator by executing the following command:

   - On Windows: **configureLDAP.bat**

   - On Unix: **./configureLDAP.sh**
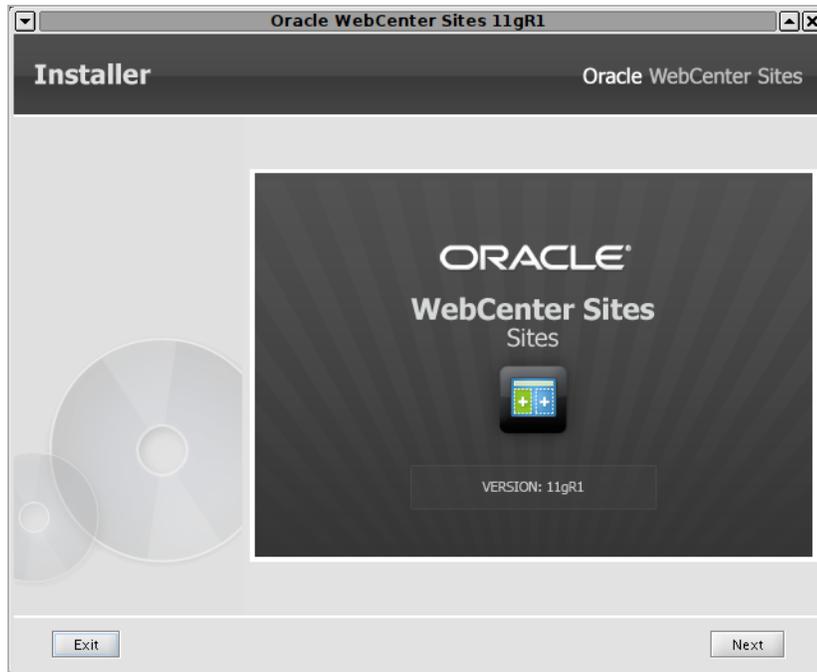
3. In the "Pre-Installation Requirements" screen, make sure you have satisfied the requirements shown, then click **Next**.
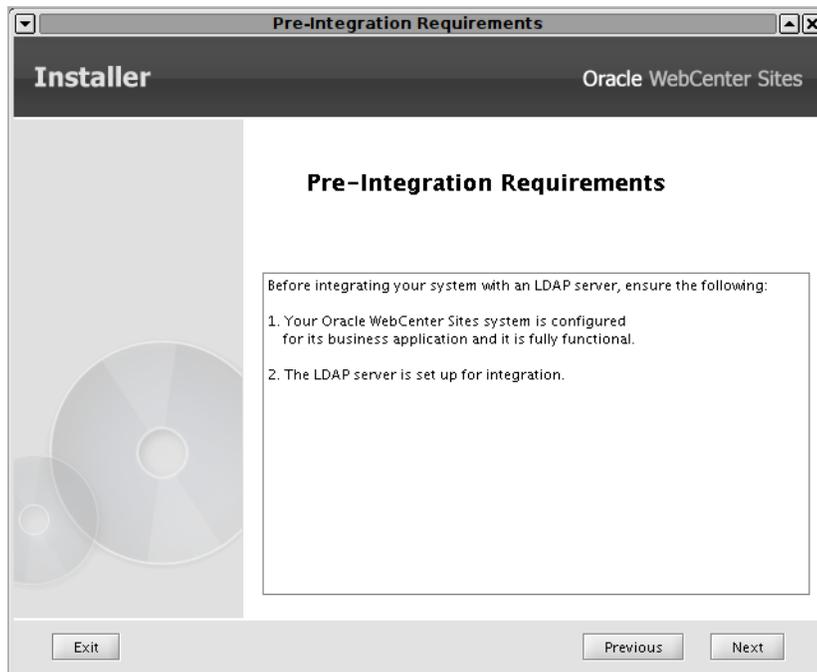
4. In the "Sites Information" screen, enter the location of the directory in which WebCenter Sites has been installed.
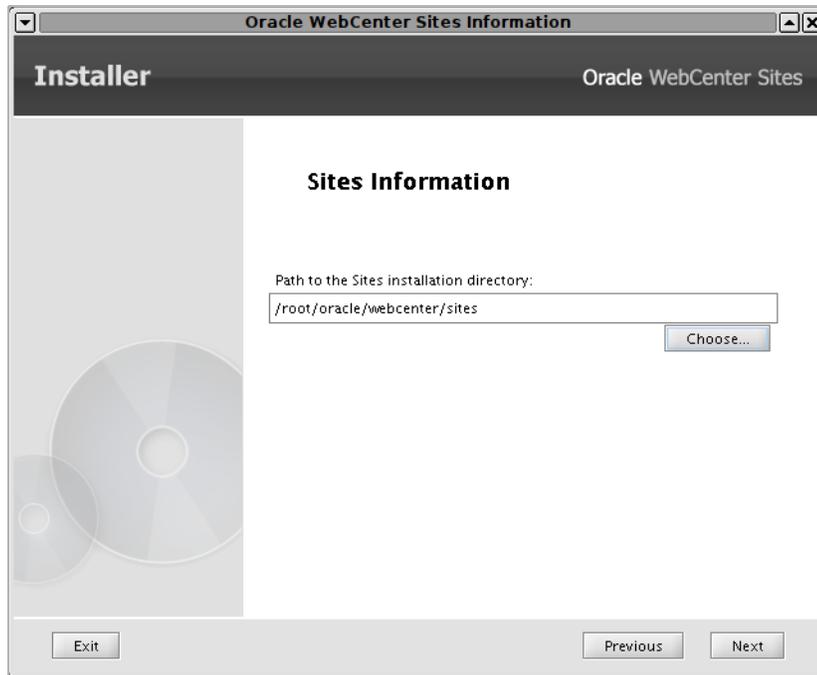
5. In the "LDAP Server" screen, do the following:

    a. Select the LDAP server you are using.

    b. Specify whether you are integrating with a standalone instance of WebCenter Sites, or a member of a WebCenter Sites cluster.

    c. Click **Next**.

6. In the "LDAP Parameter" screen, enter the following information:

a. **LDAP Host** — host name or IP address of your LDAP server.

b. **LDAP Port** — port number on which your LDAP server is listening for connections. The default port, 389, is displayed in the field. Do **not** change this default value unless you are creating a specialized integration.

c. **User name** — name of the LDAP user used to access your LDAP server. (This field does not appear if you selected **WebLogic Embedded LDAP** in .)

The value you enter determines whether WebCenter Sites accesses the LDAP server through a WebCenter Sites user or an independent user. Do one of the following:

- Leave this field blank if you want the LDAP user to be the same user that is logged into WebCenter Sites. The integrator will set the value of the `jndi.connectAsUser` property (in `dir.ini`) to `true`.

- Enter a value if you want the LDAP user to be a user that you specified within your LDAP server. Your value must be a fully qualified, fully distinguished LDAP user name. The integrator will assign the user name to the `jndi.login` property (in `dir.ini`). It will also set `jndi.connectasUser` to `false`.

  Valid entry: `cn=<username>,dc=<domain>,dc=<extension>`

  Example: `cn=Manager,dc=fatwire,dc=com`

d. **JNDI Password** — password of the LDAP user who will access the LDAP server. Enter a value only if you provided a user name in the preceding field.

> **Note**
>
> If you selected **WebLogic Embedded LDAP** in step 5 on page 16, enter the password you provided when you enabled the WebLogic Embedded LDAP Server.

The integrator will assign this password in an encrypted form to the `jndi.password` property (in `dir.ini`).

e. **People parent DN** — DN of the **People** parent node in your LDAP server. WebCenter Sites users will be stored under this node. (This field does not appear if you selected **WebLogic Embedded LDAP** in step 5 on page 16.)

Valid entry: `ou=People,dc=<domain>,dc=<extension>`

Example: `ou=People,dc=fatwire,dc=com`

f. **Group parent DN** — DN of the **Groups** parent node in your LDAP server. WebCenter Sites ACLs will be stored under this node. (This field does not appear if you selected **WebLogic Embedded LDAP** in step 5 on page 16.)

Valid entry: `ou=Groups,dc=<domain>,dc=<extension>`

Example: `ou=Groups,dc=fatwire,dc=com`

g. Click **Next**.

7. In the "Existing Sites Password" screen, enter the user name and password for your installation's WebCenter Sites System Administrator account. (The default values are `ContentServer/password`.) Re-enter the password for verification, then click **Next**.

Note

Make sure the information you enter here exactly matches the information used in your WebCenter Sites system. If you enter incorrect information, your WebCenter Sites system will not function properly.

8. In the "Sites Configuration" screen enter the user name and password of your installation's WebCenter Sites Application Administrator account. (The default values are fwadmin/xceladmin). Re-enter the password for verification, then click **Next**.

Note

Make sure that the information you enter here exactly matches the information used in your WebCenter Sites system. If you enter incorrect information, your WebCenter Sites system will not function properly.

9. In the next "Sites Configuration" screen, enter the password that will be assigned to all users on your WebCenter Sites system (except the WebCenter Sites System Administrator, WebCenter Sites Application Administrator, and `DefaultReader` accounts).
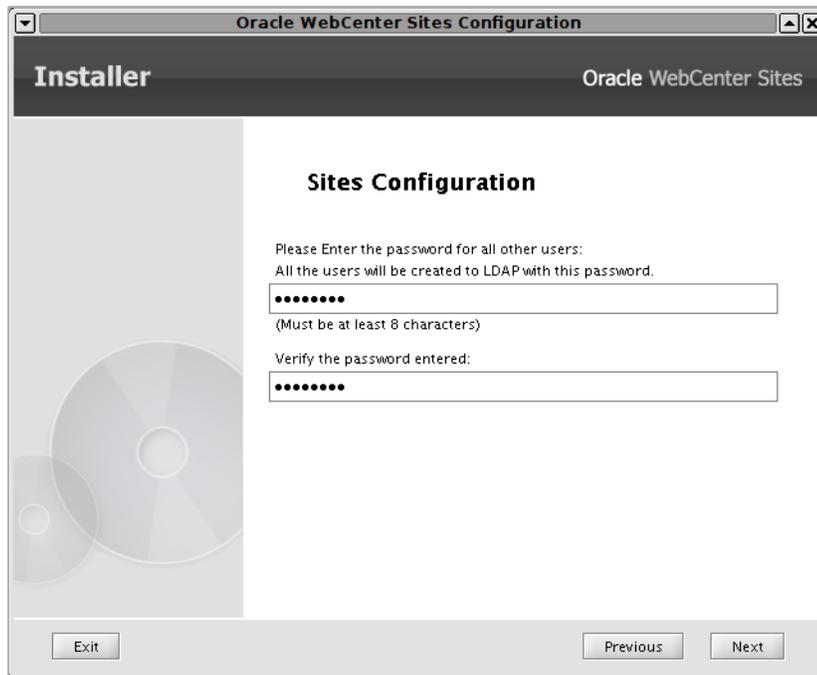
Note

For added security, WebCenter Sites passwords are one-way encrypted, which means they cannot be decrypted and duplicated in the LDAP server.

The password that you provide in this screen is a dummy password that will be assigned to all WebCenter Sites users (except the WebCenter Sites System Administrator, WebCenter Sites Application Administrator, and `DefaultReader`). At the end of the integration process, the users' original passwords must be re-assigned to them. Special instructions also apply to OpenLDAP with encrypted passwords. (Instructions for re-assigning passwords are given in "Completing the Integration," on page 24.)

Re-enter the password for verification, then click **Next**.

10. In the "LDAP Integration Option" screen, do one of the following and click **Next**:

- If you have write permissions to the LDAP server, select **Automatic**.

  The integrator will write WebCenter Sites users, ACLs, roles, and sites to the LDAP server. (All users will be assigned the password you specified in .)

- If you do not have write permissions to the LDAP server, select **Manual**.

> **Note**
>
> If you chose the **WebLogic** option and the WebCenter Sites application is not running on the same domain as the LDAP server, select **Manual**.

  When the integrator completes its task, an LDAP user with write permissions will have to write the WebCenter Sites users, ACLs, roles, and sites to the LDAP server, either directly or via an `ldif` file.

> **Note**
>
> If you chose the **WebLogic** or **OpenLDAP** option, the integrator will create an `ldif` file in the `<cs_install_dir>/ldif` directory.
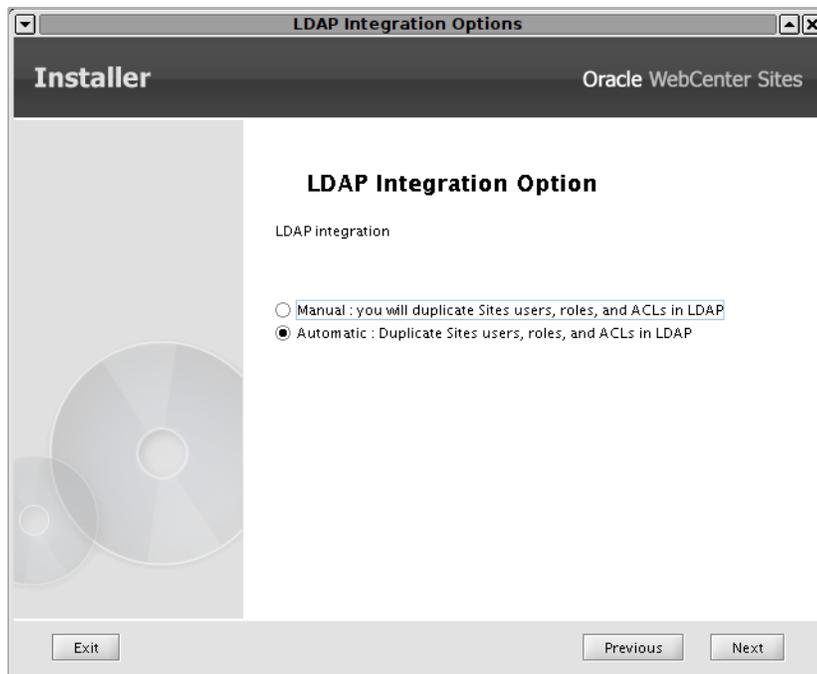
11. In the "Settings Summary" screen, review the choices you have made. If you need to make changes, click the **Back** button to return to the appropriate screen. Otherwise, click **Next** to proceed with the integration.
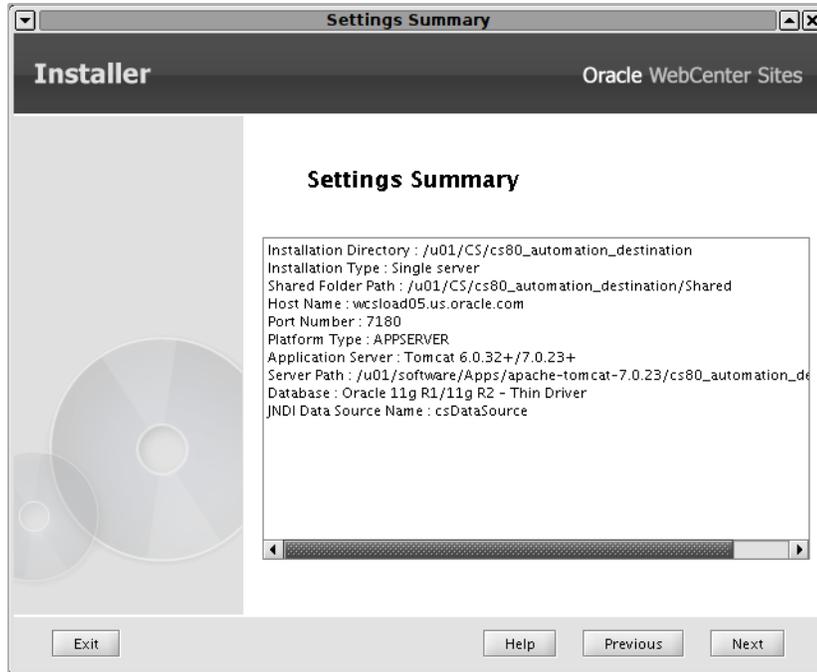
12. In the "Installation Progress" screen, click **Install** and wait for the integration process to complete.
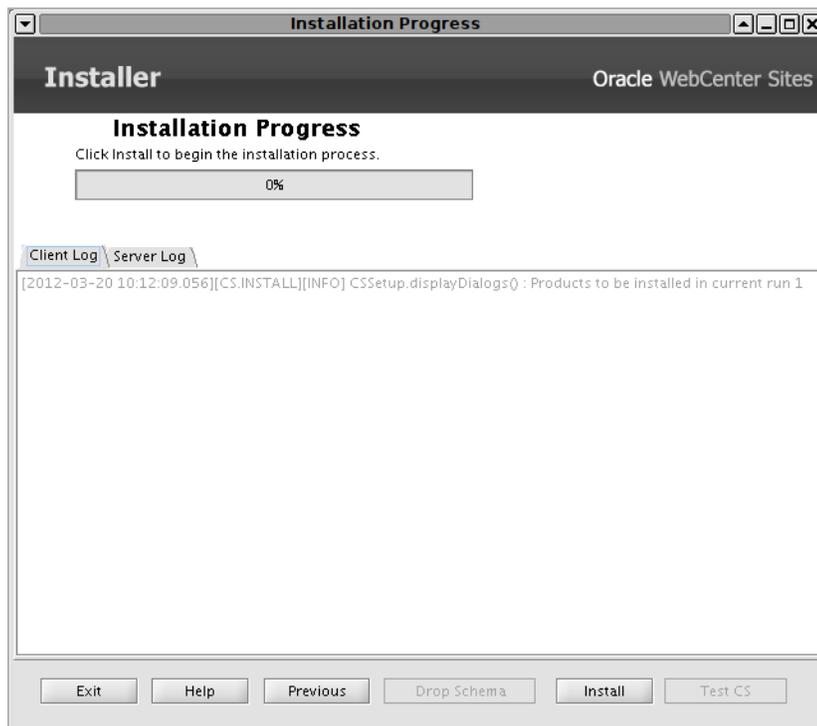
When the "Successful" pop-up dialog appears, the integrator's process is complete.

13. Test your LDAP integration by logging in to WebCenter Sites, then continue with the next step.

Completing the Integration

> **Note**
>
> To complete the steps in this section, you must have write permissions to the LDAP server.

If you chose the **Manual** integration option in the previous section, you will now load the LDAP server with WebCenter Sites users, ACLs, roles, and sites. Regardless of your choice, you will also reset the passwords of WebCenter Sites users.

To complete the WebCenter Sites-LDAP integration

1. If the LDAP integrator's **Automatic** option was chosen (in step 10 on page 22), skip to step 3. Otherwise, continue with the next step.

2. If the LDAP integrator's **Manual** option was chosen (in step 10 on page 22), load the LDAP server with WebCenter Sites users, ACLs, roles, and sites, using one of the following options:

- Import an `ldif` file.

> **Note**
>
> If you are integrating with WebLogic or OpenLDAP, an `ldif` file was created in the `<cs_install_dir>/ldif` directory by the integrator. If you chose the **WebLogic** option, and the WebCenter Sites application is not running on the same domain as the LDAP server, edit the `ldif` file and replace any instances of your CS WebLogic domain (`Variables.CSInstallAdminDomainName`) with your LDAP server domain.
>
> For any other LDAP server, you must create your own `ldif` file.

- Write users, ACLs, roles, and sites directly to the LDAP server. For information about which users, ACLs, roles, and sites to write, see the following steps in Chapter 3:
  - "Step 3. Check the mail Attribute," on page 32
  - "Step 4. Create LDAP User Groups (WebCenter Sites ACLs)," on page 33
  - "Step 5. Create Required Users and Assign Them to LDAP Groups," on page 34
  - "Step 6. Create Sites and Roles in the LDAP Server," on page 35

3. In the LDAP server, reset the passwords for all WebCenter Sites users as follows:

- **All LDAP servers:**
  Set the users' passwords to their original values, **except for** the WebCenter Sites

System Administrator, WebCenter Sites Application Administrator, and `DefaultReader` accounts.

If you do not change the passwords users will not be able to log in to WebCenter Sites with their originally assigned passwords.

- **OpenLDAP with encrypted passwords:**
  If you are using OpenLDAP *and* have configured it to use encrypted passwords, you **must** change the passwords for all WebCenter Sites users **including** passwords for the WebCenter Sites System Administrator, WebCenter Sites Application Administrator, and `DefaultReader` accounts.

  This step is required because the LDAP integrator writes user passwords to the LDAP directory as plaintext, whereas OpenLDAP expects password hashes when password type is configured as `SSHA`. If you fail to complete this step, your WebCenter Sites system will not function properly.

For instructions on changing user passwords on supported LDAP servers, see *Oracle WebCenter Sites: Configuring Supporting Software*.

Post-Integration Steps When CM Sites Have Not Been Created

If CM sites were not created on the given system, then after integrating WebCenter Sites with LDAP you will be unable to log in. The solution is to manually create the following new group entries in your LDAP server and assign `fwadmin` to each of these groups:

```
Management Site-SiteAdmin
Management Site-GeneralAdmin
Management Site-WorkflowAdmin
Management Site-AdvancedUser
```

In addition, create the `SitesUser` group only for installations running in content management mode. This group enables the `fwadmin` user to access the WebCenter Sites Contributor interface:

```
Management Site-SitesUser
```

Example LDIF

```
dn: cn=Management Site-SiteAdmin,ou=Groups,dc=fatwire,dc=com
objectClass: top
objectClass: groupOfUniqueNames
uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com

dn: cn=Management Site-GeneralAdmin,ou=Groups,dc=fatwire,dc=com
objectClass: top
objectClass: groupOfUniqueNames
uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com

dn: cn=Management Site-WorkflowAdmin,ou=Groups,dc=fatwire,dc=com
objectClass: top
objectClass: groupOfUniqueNames
uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
```

```
dn: cn=Management Site-AdvancedUser,ou=Groups,dc=fatwire,dc=com
objectClass: top
objectClass: groupOfUniqueNames
uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com

dn: cn=Management Site-SitesUser,ou=Groups,dc=fatwire,dc=com
objectClass: top
objectClass: groupOfUniqueNames
uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
```

Testing the Integration

Test your LDAP-integrated system by opening a browser and entering the following URL:

```
http://<servername>:<port>/servlet/CatalogManager?ftcmd
  =login&<username>=ContentServer&<password>=password
```

where

<servername> is the name of the machine that is hosting the WebCenter Sites system

<port> is the port number of that server

<username> is user-defined (WebCenter Sites, in this example)

<password> is user-defined (password, in this example)

- If your browser displays a "Login Successful" message, you have integrated your LDAP plug-in correctly.
- If you do not see the "Login Successful" message, verify that you created the ContentServer user in the LDAP server, and that all properties are set to the correct values.

Chapter 3

Integrating with Hierarchical Schema LDAP Servers

This chapter provides instructions for integrating WebCenter Sites with hierarchical schema LDAP servers.

This chapter contains the following section:

- Integration Steps
- Testing the Integration

Integration Steps

To integrate with hierarchical schema LDAP, you will complete the following steps:

> **Note**
>
> In hierarchical schema LDAP, management of users and ACLs is required. Management of sites and roles is optional.

Step 1. Configure the WebCenter Sites LDAP Connection Properties

In this step, you will configure several properties in the WebCenter Sites `.ini` files to establish communication with LDAP. The files are:

- `futuretense.ini`
- `dir.ini`
- `futuretense_xcel.ini` (optional, if you wish to manage sites and roles directly in the LDAP server).

A. Start the Property Editor

Execute the following scripts at the MS DOS prompt or in a UNIX shell:

- Windows: `propeditor.bat`, which is usually located in `<cs_install_dir/>`
- Unix: `propeditor.sh`, which is usually located in `<$HOME/cs_install_dir>`

If you need detailed instructions on starting the Property Editor or you would like more information on the properties to be modified, see the *Oracle WebCenter Sites Property Files Reference*.

B. Configure Properties in futuretense.ini

1. Open `futuretense.ini` in the Property Editor.
2. Select the **Authentication** tab.

3. Set the following properties as shown in the table below:

Property (In futuretense.ini)	Value
`cs.manageproperty`	`dir.ini`
`cs.manageUser`	`com.openmarket.directory.jndi.auth.JNDILogin`

4. Select **File > Save** to save the values.

5. Select **File > Close**.

C. Configure Properties in dir.ini

1. Open `dir.ini` in the Property Editor.

2. Select the **Attribute Names** tab and set the following values for the following properties:

Property (in dir.ini)	Value
`cn`	OpenLDAP: `cn`
`loginattribute`	OpenLDAP: `cn`
`password`	OpenLDAP: `userPassword`
`uniquemember`	OpenLDAP: `uniquemember`
`username`	OpenLDAP: `uid`

3. Select the **Global Data** tab and set the following values for the following properties:

Property (in dir.ini)	Value
`groupparent`	OpenLDAP: `ou=groups,dc=`*companyname*`,dc=com`
`peopleparent`	OpenLDAP: `cn=People,dc=`*companyname*`,dc=com`

4. Select the **Interface Implementations** tab and specify the following values for the following properties:

Property (in dir.ini)	Value
`className.IDir`	`com.openmarket.directory.jndi.JNDIDir`
`className.IName`	`com.openmarket.directory.jndi.NameWrapper`
`className.IUserDir`	`com.openmarket.directory.jndi.LDAPUserDir`

5. Select the **JNDI SPI Env** tab and specify the following values for the following properties:

Property (in dir.ini)	Value
jndi.baseurl	ldap://<servername:port>
jndi.connectAsUser	If WebCenter Sites can query the LDAP server for information as the user who is logged in to the WebCenter Sites interface and is making the query, set this property to true. (The same user must be defined in the LDAP server.) If WebCenter Sites must query the LDAP server as a specific user other than the user who is logged in to the WebCenter Sites interface, set this property to false. Then specify a valid user name/password combination with the jndi.login and jndi.password properties. OpenLDAP: false
jndi.custom	(leave this value blank)
jndi.login	If the jndi.connectAsUser property is set to false, specify the fully qualified, fully distinguished name of the user account that WebCenter Sites will use to query the LDAP server. (The same user must be defined in the LDAP server.) OpenLDAP: cn=Manager,dc=companyname,dc=com **Note:** jndi.connectAsUser determines how a WebCenter Sites user is connected to the LDAP server, and therefore defines the LDAP user to be either administrative or non-administrative. • If jndi.connectAsUser=true, then WebCenter Sites defines the LDAP user to be the same one that is logged in to WebCenter Sites and connects that user to the LDAP server. For example, jndi.connectAsUser=true connects a WebCenter Sites administrator to LDAP as an administrator of the LDAP system. • If jndi.connectAsUser=false, then WebCenter Sites defines the LDAP user to be the one that is specified in the jndi.login property (in dir.ini) and connects that user to the LDAP server.
jndi.password	If the jndi.connectAsUser property is set to false, specify the password for the user account that WebCenter Sites will use to query the LDAP server. This value is encrypted.

6. Select the **Schema Defaults** tab and specify the following values for the following properties:

Property (in dir.ini)	Value

defaultGroupAttrs	OpenLDAP:
	
	`objectclass\=top&objectclass`
	`    \=groupOfUniqueNames`

defaultPeopleAttrs	OpenLDAP:
	
	`objectclass\=top&objectclass\=Person&`
	`    objectclass\=organizationalPerson`

objectclassGroup	OpenLDAP: `groupOfUniqueNames`
objectclassPerson	OpenLDAP: `organizationalPerson`
requiredGroupAttrs	(leave this value blank)
requiredPeopleAttrs	Specify all the required user attributes for this LDAP server. For example: `sn=Last Name&cn=Full Name`

7. Select **File > Save**.

8. Select **File > Close**.

D. Configure Properties in futuretense_xcel.ini

> **Note**
>
> If you do not wish to manage sites or roles in the LDAP server, skip the steps in this section.

1. Open `futuretense_xcel.ini` in the Property Editor.

2. Select the **Xcelerate** tab.

3. Set values for the following properties:

Property (in futuretense_xcel.ini)	Value

xcelerate.usermanagerclass	The value depends on the type of deployment you are using.
	
	Example value:
	
	`com.openmarket.xcelerate.user.`
	`    UserManager`

xcelerate.rolemanagerclass	Example value:
	
	`com.openmarket.xcelerate.roles.`
	`    RoleManager`

4. Select the **User Management** tab.

5. Set values for the following properties:

Property (in futuretense_xcel.ini)	Value
`xcelerate.sitesroot`	Example value: `ou=sites.dc=<domainname>.dc=com`
`xcelerate.sitenameattr`	Example value: `ou`
`xcelerate.displayablenameattr`	The name of the user attribute describing the display name, if different from the login name.

6. Select **File > Save**.

7. Select **File > Close**.

8. Stop and restart the application server for your changes to take effect.

Step 2. Configure the LDAP Server

1. Configure the LDAP server to recognize the user that is specified in the `jndi.connectAsUser` and `jndi.login` properties (given on page 30).

2. Assign the same user correct permissions to connect to LDAP, to look up groups, to look up user attributes, and so on.

Note

Assign permissions judiciously. Once WebCenter Sites is LDAP-integrated, any WebCenter Sites administrator who connects to the LDAP server as a user with write permissions can still manage ACLs, users, sites, and roles from the WebCenter Sites interface. Some of the operations will propagate to the LDAP server, while other operations might result in errors.

For information about management operations in the WebCenter Sites interface and their effect on the LDAP server, see the appendix "Managing Users, Sites, and Roles in LDAP-Integrated WebCenter Sites Systems" in the *Oracle WebCenter Sites Administrator's Guide*.

Step 3. Check the `mail` Attribute

Each WebCenter Sites user must have a mail attribute (an attribute that stores an e-mail address). Before proceeding, check that the LDAP server's user entries have a `mail` attribute. For information about the WebCenter Sites `mail` attribute, see the *Oracle WebCenter Sites Administrator's Guide*.

Step 4. Create LDAP User Groups (WebCenter Sites ACLs)

Use the tools provided by your LDAP server to create groups that correspond to WebCenter Sites ACLs. The required ACLs are listed in this section.

Note

- **Using ldif.** You can create groups in the LDAP server by writing an `ldif` file that contains the groups specified in this step, and the user and group memberships in "Step 5. Create Required Users and Assign Them to LDAP Groups," on page 34. You can then import the `ldif` file into your user directory.

  The method for importing the `ldif` file varies for each directory, but the structure of the file is standardized among LDAP servers. For a sample `ldif` file, see Appendix A.

- **Naming conventions.** In the steps that follow, you will be duplicating WebCenter Sites users and ACLs (optionally, sites and roles) in the LDAP server. All names must be duplicated *exactly*, including case, spaces, and special characters.

Default ACLs

The following list names the WebCenter Sites system default ACLs. You must create groups in the LDAP server whose names exactly match the ACL names below. For information about the access privileges that are granted by these ACLs, see the "System Defaults" appendix in the *Oracle WebCenter Sites Administrator's Guide*.

- Browser
- ContentEditor
- ContentReader
- ElementEditor
- ElementReader
- PageEditor
- PageReader
- RemoteClient
- SiteGod
- TableEditor
- TableReader
- UserEditor
- UserReader
- Visitor
- VisitorAdmin
- xceladmin
- xceleditor
- xcelpublish

Web Services ACLs

If you are using web services, create an LDAP group for each of the following ACLs. A group name must *exactly* match the ACL name:

- WSAdmin
- WSEditor
- WSUser

For information about the access privileges granted by these ACLs (groups), see the "System Defaults" appendix in the *Oracle WebCenter Sites Administrator's Guide*.

Custom ACLs

If any custom ACLs have been created in WebCenter Sites since its installation, duplicate the ACLs as groups in the LDAP server. Group names must *exactly* match the names of the ACLs.

Step 5. Create Required Users and Assign Them to LDAP Groups

In this step, you will duplicate the following users and their group memberships in the LDAP server:

- WebCenter Sites Default Users
- Sample Site Users
- Custom Users

WebCenter Sites Default Users

1. Table 2 lists default users of the WebCenter Sites application. Duplicate the default users in the LDAP server, making sure to name them *exactly* as shown in Table 2.

2. Make the duplicated users members of the groups shown in Table 2:

Table 2: Default Users and Group Memberships

Default User	Group Memberships (ACLs)
ContentServer (user that is created in the database during the WebCenter Sites installation)	Browser, ContentEditor, ElementEditor, ElementReader, PageEditor, PageReader, SiteGod, TableEditor, TableReader, UserEditor, UserReader
fwadmin	Browser, ElementEditor, PageEditor, RemoteClient, TableEditor, UserEditor, UserReader, Visitor, VisitorAdmin, xceladmin, xceleditor
DefaultReader	Browser, Visitor

Custom Users

1. Duplicate in the LDAP server all of the WebCenter Sites active custom users (all users who are assigned to active WebCenter Sites CM sites). Name the users exactly as they are named in WebCenter Sites.

2. Assign each custom user to the LDAP groups (created in "Custom ACLs," on page 34) that correspond to the user's ACLs in WebCenter Sites.

Sample Site Users

If you installed sample sites, create the associated sample users in the LDAP server. (Procedures are identical to those for custom users.) For information about sample users and sample sites, see the *Oracle WebCenter Sites Administrator's Guide*.

Step 6. Create Sites and Roles in the LDAP Server

> **Note**
>
> If you do not wish to manage sites and roles in the LDAP server, then you have completed the WebCenter Sites-LDAP integration. To verify the integrated system, continue with "Testing the Integration," on page 38.

If you plan to use LDAP attribute mapping to manage sites and roles in your LDAP server, you will need to hierarchically order the sites and roles, as shown by the example in Figure 1 (system-defined roles are listed in Table 3, on page 36). Continue with the steps in this section.

Figure 1: LDAP Hierarchies
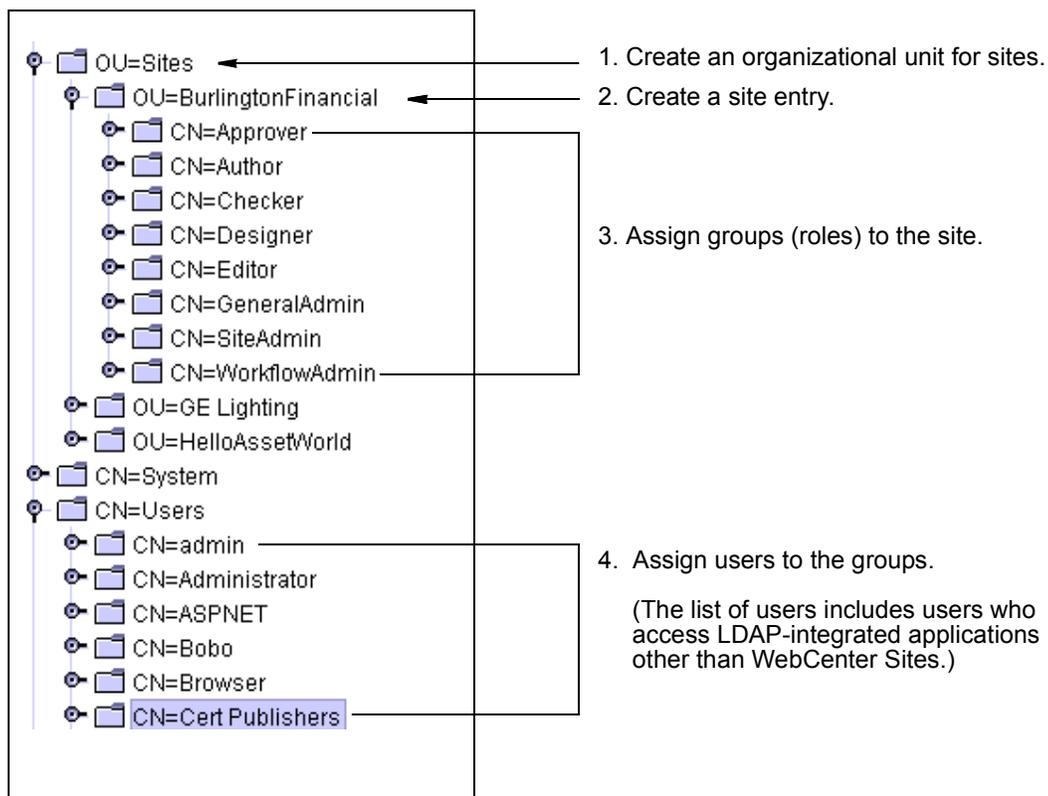
Table 3: System-Defined Roles

Role	Description
GeneralAdmin	Default system role for global WebCenter Sites administrators.
	Required for users who need access to the **Admin** tab (and all other possible functions) in the tree.
	Note: A user with the GeneralAdmin role must also have the `xceladmin` ACL in order to use any of the functions in the **Admin** tab.
SiteAdmin	Default system role for site administrators.
	Required for users who are administrators of selected sites and therefore need access to the **Site Admin** tab (which displays a subset of the functions in the **Admin** tab).
	Assign the SiteAdmin role to users who will manage, but not create, other site users.
	Note: A site user with the SiteAdmin role must also have the `xceladmin` ACL in order to use functions on the **Site Admin** tab.
WorkflowAdmin	Default system role for workflow administrators.
	Required for users who need access to the **Workflow** tab in the tree.
	Note: A user with the WorkflowAdmin role must also have the `xceladmin` ACL in order to use functions on the **Workflow** tab.
AdvancedUser	Grants WebCenter Sites users access to the WebCenter Sites Admin interface.
SitesUser	Grants WebCenter Sites users access to the WebCenter Sites Contributor interface.

To create a hierarchical schema, complete the following steps in the LDAP server:

1. Create an organizational unit for sites. For an example, see step 1 in Figure 1, on page 35.

2. Create a site entry under the site's organizational unit:

Complete this step by duplicating the names of active WebCenter Sites CM sites e*xactly* as they are named in the WebCenter Sites interface (**Admin** tab). For an example, see step 2 in Figure 1, on page 35.

> **Note**
>
> If the sites you plan to use do not yet exist in WebCenter Sites, you can first create them in the LDAP server, then duplicate them (*with identical names, including case*) in WebCenter Sites.

3. Assign groups to each site:

Complete this step for each site by *exactly* duplicating the names of the WebCenter Sites roles that are assigned to the site. For an example, see step 3 in Figure 1.

When creating a group for a system default role, name the group to exactly match the role names listed here:

- `GeneralAdmin` (**always assign this group to a site**)

- `SiteAdmin`
- `WorkFlowAdmin`
- `AdvancedUser`
- `SitesUser`

> **Note**
>
> If the roles you plan to use do not yet exist in WebCenter Sites, you can first create them as groups in the LDAP server, then duplicate them as roles (*with identical names, including case*) in WebCenter Sites. For the list of system-defined roles, see Table 3, on page 36.

4. Assign users to the groups. Name the users exactly as they are named in WebCenter Sites. For an example, see step 4 in Figure 1.

> **Note**
>
> If you are completing the flat schema manual integration process (Chapter 2), reset WebCenter Sites users' passwords. For instructions, see step 3 on page 24.

Step 7. If You Completed Step 6

1. If in the previous step you created sites and roles in the LDAP server, but they do not exist in the WebCenter Sites database, create the same sites and roles in WebCenter Sites, naming them exactly as in the LDAP server. For instructions on creating sites and roles in the WebCenter Sites database, see the following section and chapter in the *Oracle WebCenter Sites Administrator's Guide*:

- "Creating a Role"
- Chapter 7, "Assembling and Organizing CM Sites"

2. Assign the users to their relevant sites. For instructions, see "Granting Users Access to a Site" in the *Oracle WebCenter Sites Administrator's Guide*.

Step 8. Post-Integration Steps When CM Sites Have Not Been Created

If CM sites were not created on the given system, then after integrating WebCenter Sites with LDAP you will be unable to log in. The solution is to manually create the following new group entries in your LDAP server and assign `fwadmin` to each of these groups:

```
Management Site-SiteAdmin
Management Site-GeneralAdmin
Management Site-WorkflowAdmin
```

In addition, create the `SitesUser` group only for installations running in content management mode. This group enables the `fwadmin` user to access the WebCenter Sites Contributor interface:

```
Management Site-SitesUser
```

Example LDIF

```
dn: cn=Management Site-SiteAdmin,ou=Groups,dc=fatwire,dc=com
objectClass: top
objectClass: groupOfUniqueNames
uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com

dn: cn=Management Site-GeneralAdmin,ou=Groups,dc=fatwire,dc=com
objectClass: top
objectClass: groupOfUniqueNames
uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com

dn: cn=Management Site-WorkflowAdmin,ou=Groups,dc=fatwire,dc=com
objectClass: top
objectClass: groupOfUniqueNames
uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com

dn: cn=Management Site-SitesUser,ou=Groups,dc=fatwire,dc=com
objectClass: top
objectClass: groupOfUniqueNames
uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
```

Testing the Integration

Test your LDAP-integrated system by opening a browser and entering the following URL:

```
http://<servername>:<port>/servlet/CatalogManager?ftcmd
  =login&<username>=ContentServer&<password>=password
```

where

`<servername>` is the name of the machine hosting the WebCenter Sites system

`<port>` is the port number of that server

`<username>` is user-defined (`ContentServer`, in this example)

`<password>` is user-defined (`password`, in this example)

• If the browser displays a "`Login Successful`" message, you have integrated your LDAP plug-in correctly.

• If you do not see the "`Login Successful`" message, verify that you created the `ContentServer` user in the LDAP server, and that all properties are set to the correct values.

Appendix A
Sample LDIF for Hierarchical Schema LDAP

This appendix contains a sample `ldif` file for LDAP servers configured with a hierarchical schema.

Sample Idif File

The sample `ldif` file below defines users and groups for WebCenter Sites sample sites HelloAsetWorld, Burlington Financial, and GE Lighting. The file re-creates the system default users, sample site users, their ACLs, and their roles.

> **Note**
>
> The structure of the sample file below applies to any LDAP server using a hierarchical schema.

```
1    dn: dc=fatwire,dc=com
2    dc: fatwire
3    objectClass: dcObject
4    objectClass: organization
5    description: OpenLDAP test pre_cs_setup
6    o: Fatwire Software
7
8    dn: cn=Manager, dc=fatwire,dc=com
9    objectClass: organizationalRole
10   cn: Manager
11
12   dn: ou=People, dc=fatwire,dc=com
13   ou: People
14   objectClass: organizationalUnit
15   objectClass: top
16
17   dn: ou=Groups, dc=fatwire,dc=com
18   ou: Groups
19   objectClass: organizationalUnit
20   objectClass: top
21
22   dn: cn=fwadmin_mine,ou=People, dc=fatwire,dc=com
23   telephoneNumber: (123) 123-4567
24   userPassword::
     e1NTSEF9endxNDRoUStuUlNrOU84clJuTU5RSzBxTFlPdEN3azQ=
25   objectClass: organizationalPerson
26   objectClass: top
27   description: admin user mine
28   sn: fwadmin_nime
29   cn: fwadmin_mine
30
31   dn: cn=newgroupOfUniqueNames,ou=Groups, dc=fatwire,dc=com
32   objectClass: groupOfUniqueNames
33   objectClass: top
34   uniqueMember: cn=fwadmin_mine,ou=People,dc=fatwire,dc=com
35   cn: newgroupOfUniqueNames
36
37   dn: cn=Browser,ou=Groups, dc=fatwire,dc=com
38   objectClass: top
```

```
39    objectClass: groupOfUniqueNames
40    uniqueMember:
      cn=ContentServer,ou=People,dc=fatwire,dc=com
41    uniqueMember:
      cn=DefaultReader,ou=People,dc=fatwire,dc=com
42    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
43    uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
44    uniqueMember: cn=Bobo,ou=People,dc=fatwire,dc=com
45    uniqueMember: cn=Flo,ou=People,dc=fatwire,dc=com
46    uniqueMember: cn=Joe,ou=People,dc=fatwire,dc=com
47    uniqueMember: cn=Moe,ou=People,dc=fatwire,dc=com
48    uniqueMember:
      cn=user_designer,ou=People,dc=fatwire,dc=com
49    uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
50    uniqueMember:
      cn=user_approver,ou=People,dc=fatwire,dc=com
51    uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
52    uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
53    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
54    uniqueMember: cn=mirroruser,ou=People,dc=fatwire,dc=com
55    uniqueMember:
      cn=user_marketer,ou=People,dc=fatwire,dc=com
56    uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
57    uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
58    uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
59    uniqueMember: cn=HelloAssetWorld-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
60    uniqueMember: cn=BurlingtonFinancial-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
61    uniqueMember: cn=GE Lighting-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
62    uniqueMember: cn=Spark-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
63    uniqueMember: cn=HelloAssetWorld-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
64    uniqueMember: cn=BurlingtonFinancial-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
65    uniqueMember: cn=GE Lighting-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
66    uniqueMember: cn=Spark-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
67    uniqueMember: cn=HelloAssetWorld-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
68    uniqueMember: cn=BurlingtonFinancial-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
69    uniqueMember: cn=GE Lighting-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
70    uniqueMember: cn=Spark-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
71    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
72    uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
73    uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
```

```
74    uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
75    uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
76    uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
77    uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
78    uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
79    uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
80    uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
81    cn: Browser
82
83    dn: cn=SiteGod,ou=Groups, dc=fatwire,dc=com
84    objectClass: top
85    objectClass: groupOfUniqueNames
86    uniqueMember:
      cn=ContentServer,ou=People,dc=fatwire,dc=com
87    cn: SiteGod
88
89    dn: cn=ElementReader,ou=Groups, dc=fatwire,dc=com
90    objectClass: top
91    objectClass: groupOfUniqueNames
92    uniqueMember:
      cn=ContentServer,ou=People,dc=fatwire,dc=com
93    uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
94    uniqueMember: cn=Bobo,ou=People,dc=fatwire,dc=com
95    uniqueMember: cn=Flo,ou=People,dc=fatwire,dc=com
96    uniqueMember: cn=Joe,ou=People,dc=fatwire,dc=com
97    uniqueMember: cn=Moe,ou=People,dc=fatwire,dc=com
98    uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
99    uniqueMember:
      cn=user_approver,ou=People,dc=fatwire,dc=com
100   uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
101   uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
102   uniqueMember:
      cn=user_marketer,ou=People,dc=fatwire,dc=com
103   uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
104   uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
105   uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
106   uniqueMember: cn=HelloAssetWorld-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
107   uniqueMember: cn=BurlingtonFinancial-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
108   uniqueMember: cn=GE Lighting-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
109   uniqueMember: cn=Spark-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
110   uniqueMember: cn=HelloAssetWorld-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
111   uniqueMember: cn=BurlingtonFinancial-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
112   uniqueMember: cn=GE Lighting-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
113   uniqueMember: cn=Spark-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
```

```
114    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
115    uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
116    uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
117    uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
118    uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
119    uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
120    uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
121    uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
122    uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
123    uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
124    cn: ElementReader
125
126    dn: cn=ElementEditor,ou=Groups, dc=fatwire,dc=com
127    objectClass: top
128    objectClass: groupOfUniqueNames
129    uniqueMember:
       cn=ContentServer,ou=People,dc=fatwire,dc=com
130    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
131    uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
132    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
133    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
134    uniqueMember: cn=mirroruser,ou=People,dc=fatwire,dc=com
135    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
136    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
137    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
138    uniqueMember: cn=Spark-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
139    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
140    cn: ElementEditor
141
142    dn: cn=PageReader,ou=Groups, dc=fatwire,dc=com
143    objectClass: top
144    objectClass: groupOfUniqueNames
145    uniqueMember:
       cn=ContentServer,ou=People,dc=fatwire,dc=com
146    uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
147    uniqueMember: cn=Bobo,ou=People,dc=fatwire,dc=com
148    uniqueMember: cn=Flo,ou=People,dc=fatwire,dc=com
149    uniqueMember: cn=Joe,ou=People,dc=fatwire,dc=com
150    uniqueMember: cn=Moe,ou=People,dc=fatwire,dc=com
151    uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
152    uniqueMember:
       cn=user_approver,ou=People,dc=fatwire,dc=com
153    uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
154    uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
155    uniqueMember:
       cn=user_marketer,ou=People,dc=fatwire,dc=com
156    uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
```

```
157    uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
158    uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
159    uniqueMember: cn=HelloAssetWorld-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
160    uniqueMember: cn=BurlingtonFinancial-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
161    uniqueMember: cn=GE Lighting-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
162    uniqueMember: cn=Spark-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
163    uniqueMember: cn=HelloAssetWorld-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
164    uniqueMember: cn=BurlingtonFinancial-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
165    uniqueMember: cn=GE Lighting-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
166    uniqueMember: cn=Spark-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
167    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
168    uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
169    uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
170    uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
171    uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
172    uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
173    uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
174    uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
175    uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
176    uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
177    cn: PageReader
178
179    dn: cn=PageEditor,ou=Groups, dc=fatwire,dc=com
180    objectClass: top
181    objectClass: groupOfUniqueNames
182    uniqueMember:
       cn=ContentServer,ou=People,dc=fatwire,dc=com
183    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
184    uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
185    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
186    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
187    uniqueMember: cn=mirroruser,ou=People,dc=fatwire,dc=com
188    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
189    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
190    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
191    uniqueMember: cn=Spark-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
192    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
193    cn: PageEditor
194
```

```
195   dn: cn=UserReader,ou=Groups, dc=fatwire,dc=com
196   objectClass: top
197   objectClass: groupOfUniqueNames
198   uniqueMember:
      cn=ContentServer,ou=People,dc=fatwire,dc=com
199   uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
200   uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
201   uniqueMember: cn=Bobo,ou=People,dc=fatwire,dc=com
202   uniqueMember: cn=Flo,ou=People,dc=fatwire,dc=com
203   uniqueMember: cn=Joe,ou=People,dc=fatwire,dc=com
204   uniqueMember: cn=Moe,ou=People,dc=fatwire,dc=com
205   uniqueMember:
      cn=user_designer,ou=People,dc=fatwire,dc=com
206   uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
207   uniqueMember:
      cn=user_approver,ou=People,dc=fatwire,dc=com
208   uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
209   uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
210   uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
211   uniqueMember: cn=mirroruser,ou=People,dc=fatwire,dc=com
212   uniqueMember:
      cn=user_marketer,ou=People,dc=fatwire,dc=com
213   uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
214   uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
215   uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
216   uniqueMember: cn=HelloAssetWorld-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
217   uniqueMember: cn=BurlingtonFinancial-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
218   uniqueMember: cn=GE Lighting-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
219   uniqueMember: cn=Spark-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
220   uniqueMember: cn=HelloAssetWorld-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
221   uniqueMember: cn=BurlingtonFinancial-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
222   uniqueMember: cn=GE Lighting-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
223   uniqueMember: cn=Spark-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
224   uniqueMember: cn=HelloAssetWorld-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
225   uniqueMember: cn=BurlingtonFinancial-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
226   uniqueMember: cn=GE Lighting-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
227   uniqueMember: cn=Spark-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
228   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
229   uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
230   uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
```

```
231    uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
232    uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
233    uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
234    uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
235    uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
236    uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
237    uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
238    cn: UserReader
239
240    dn: cn=UserEditor,ou=Groups, dc=fatwire,dc=com
241    objectClass: top
242    objectClass: groupOfUniqueNames
243    uniqueMember:
       cn=ContentServer,ou=People,dc=fatwire,dc=com
244    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
245    uniqueMember: cn=Bobo,ou=People,dc=fatwire,dc=com
246    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
247    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
248    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
249    uniqueMember: cn=Spark-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
250    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
251    uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
252    cn: UserEditor
253
254    dn: cn=TableEditor,ou=Groups, dc=fatwire,dc=com
255    objectClass: top
256    objectClass: groupOfUniqueNames
257    uniqueMember:
       cn=ContentServer,ou=People,dc=fatwire,dc=com
258    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
259    uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
260    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
261    uniqueMember: cn=mirroruser,ou=People,dc=fatwire,dc=com
262    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
263    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
264    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
265    uniqueMember: cn=Spark-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
266    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
267    uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
268    uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
269    uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
270    uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
271    uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
```

```
272    uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
273    uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
274    uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
275    uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
276    cn: TableEditor
277
278    dn: cn=ContentServer,ou=People, dc=fatwire,dc=com
279    userPassword:: cGFzc3dvcmQ=
280    objectClass: top
281    objectClass: person
282    objectClass: organizationalPerson
283    sn: ContentServer
284    cn: ContentServer
285
286    dn: cn=DefaultReader,ou=People, dc=fatwire,dc=com
287    userPassword:: U29tZVJlYWRlcg==
288    objectClass: top
289    objectClass: person
290    objectClass: organizationalPerson
291    sn: DefaultReader
292    cn: DefaultReader
293
294    dn: cn=xceleditor,ou=Groups, dc=fatwire,dc=com
295    objectClass: top
296    objectClass: groupOfUniqueNames
297    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
298    uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
299    uniqueMember: cn=Bobo,ou=People,dc=fatwire,dc=com
300    uniqueMember: cn=Flo,ou=People,dc=fatwire,dc=com
301    uniqueMember: cn=Joe,ou=People,dc=fatwire,dc=com
302    uniqueMember: cn=Moe,ou=People,dc=fatwire,dc=com
303    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
304    uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
305    uniqueMember:
       cn=user_approver,ou=People,dc=fatwire,dc=com
306    uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
307    uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
308    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
309    uniqueMember: cn=mirroruser,ou=People,dc=fatwire,dc=com
310    uniqueMember:
       cn=user_marketer,ou=People,dc=fatwire,dc=com
311    uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
312    uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
313    uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
314    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
315    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
316    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
```

```
317   uniqueMember: cn=Spark-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
318   uniqueMember: cn=HelloAssetWorld-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
319   uniqueMember: cn=BurlingtonFinancial-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
320   uniqueMember: cn=GE Lighting-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
321   uniqueMember: cn=Spark-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
322   uniqueMember: cn=HelloAssetWorld-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
323   uniqueMember: cn=BurlingtonFinancial-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
324   uniqueMember: cn=GE Lighting-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
325   uniqueMember: cn=Spark-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
326   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
327   uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
328   uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
329   uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
330   uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
331   uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
332   uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
333   uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
334   uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
335   uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
336   cn: xceleditor
337
338   dn: cn=xceladmin,ou=Groups, dc=fatwire,dc=com
339   objectClass: top
340   objectClass: groupOfUniqueNames
341   uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
342   uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
343   uniqueMember: cn=Bobo,ou=People,dc=fatwire,dc=com
344   uniqueMember: cn=mirroruser,ou=People,dc=fatwire,dc=com
345   uniqueMember: cn=HelloAssetWorld-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
346   uniqueMember: cn=BurlingtonFinancial-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
347   uniqueMember: cn=GE Lighting-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
348   uniqueMember: cn=Spark-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
349   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
350   uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
351   cn: xceladmin
352
353   dn: cn=xcelpublish,ou=Groups, dc=fatwire,dc=com
354   objectClass: top
355   objectClass: groupOfUniqueNames
```

```
356    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
357    uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
358    uniqueMember: cn=Bobo,ou=People,dc=fatwire,dc=com
359    uniqueMember: cn=Flo,ou=People,dc=fatwire,dc=com
360    uniqueMember: cn=Joe,ou=People,dc=fatwire,dc=com
361    uniqueMember: cn=Moe,ou=People,dc=fatwire,dc=com
362    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
363    uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
364    uniqueMember:
       cn=user_approver,ou=People,dc=fatwire,dc=com
365    uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
366    uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
367    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
368    uniqueMember: cn=mirroruser,ou=People,dc=fatwire,dc=com
369    uniqueMember:
       cn=user_marketer,ou=People,dc=fatwire,dc=com
370    uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
371    uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
372    uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
373    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
374    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
375    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
376    uniqueMember: cn=Spark-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
377    uniqueMember: cn=HelloAssetWorld-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
378    uniqueMember: cn=BurlingtonFinancial-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
379    uniqueMember: cn=GE Lighting-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
380    uniqueMember: cn=Spark-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
381    uniqueMember: cn=HelloAssetWorld-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
382    uniqueMember: cn=BurlingtonFinancial-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
383    uniqueMember: cn=GE Lighting-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
384    uniqueMember: cn=Spark-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
385    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
386    uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
387    cn: xcelpublish
388
389    dn: cn=Visitor,ou=Groups, dc=fatwire,dc=com
390    objectClass: top
391    objectClass: groupOfUniqueNames
```

```
392   uniqueMember:
      cn=DefaultReader,ou=People,dc=fatwire,dc=com
393   uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
394   uniqueMember:
      cn=user_designer,ou=People,dc=fatwire,dc=com
395   uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
396   uniqueMember:
      cn=user_approver,ou=People,dc=fatwire,dc=com
397   uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
398   uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
399   uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
400   uniqueMember:
      cn=user_marketer,ou=People,dc=fatwire,dc=com
401   uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
402   uniqueMember: cn=mirroruser,ou=People,dc=fatwire,dc=com
403   uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
404   uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
405   uniqueMember: cn=HelloAssetWorld-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
406   uniqueMember: cn=BurlingtonFinancial-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
407   uniqueMember: cn=GE Lighting-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
408   uniqueMember: cn=Spark-
      SparkAdmin,ou=Groups,dc=fatwire,dc=com
409   uniqueMember: cn=HelloAssetWorld-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
410   uniqueMember: cn=BurlingtonFinancial-
      SparkContentUser,ou=Groups,dc=fatwire,dc =com
411   uniqueMember: cn=GE Lighting-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
412   uniqueMember: cn=Spark-
      SparkContentUser,ou=Groups,dc=fatwire,dc=com
413   uniqueMember: cn=HelloAssetWorld-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
414   uniqueMember: cn=BurlingtonFinancial-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
415   uniqueMember: cn=GE Lighting-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
416   uniqueMember: cn=Spark-
      SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
417   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
418   uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
419   uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
420   uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
421   uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
422   uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
423   uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
424   uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
425   uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
426   uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
427   cn: Visitor
```

```
428
429    dn: cn=VisitorAdmin,ou=Groups, dc=fatwire,dc=com
430    objectClass: top
431    objectClass: groupOfUniqueNames
432    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
433    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
434    uniqueMember: cn=mirroruser,ou=People,dc=fatwire,dc=com
435    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
436    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
437    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
438    uniqueMember: cn=Spark-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
439    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
440    cn: VisitorAdmin
441
442    dn: cn=RemoteClient,ou=Groups, dc=fatwire,dc=com
443    objectClass: top
444    objectClass: groupOfUniqueNames
445    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
446    uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
447    uniqueMember:
       cn=user_approver,ou=People,dc=fatwire,dc=com
448    uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
449    uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
450    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
451    uniqueMember:
       cn=user_marketer,ou=People,dc=fatwire,dc=com
452    uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
453    uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
454    uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
455    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
456    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
457    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
458    uniqueMember: cn=Spark-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
459    uniqueMember: cn=HelloAssetWorld-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
460    uniqueMember: cn=BurlingtonFinancial-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
461    uniqueMember: cn=GE Lighting-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
462    uniqueMember: cn=Spark-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
```

```
463    uniqueMember: cn=HelloAssetWorld-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
464    uniqueMember: cn=BurlingtonFinancial-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
465    uniqueMember: cn=GE Lighting-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
466    uniqueMember: cn=Spark-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
467    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
468    uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
469    uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
470    uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
471    uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
472    uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
473    uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
474    uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
475    uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
476    uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
477    cn: RemoteClient
478
479    dn: cn=WSUser,ou=Groups, dc=fatwire,dc=com
480    objectClass: top
481    objectClass: groupOfUniqueNames
482    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
483    uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
484    uniqueMember:
       cn=user_approver,ou=People,dc=fatwire,dc=com
485    uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
486    uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
487    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
488    uniqueMember:
       cn=user_marketer,ou=People,dc=fatwire,dc=com
489    uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
490    uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
491    uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
492    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
493    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
494    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
495    uniqueMember: cn=Spark-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
496    uniqueMember: cn=HelloAssetWorld-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
497    uniqueMember: cn=BurlingtonFinancial-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
498    uniqueMember: cn=GE Lighting-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
499    uniqueMember: cn=Spark-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
```

```
500    uniqueMember: cn=HelloAssetWorld-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
501    uniqueMember: cn=BurlingtonFinancial-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
502    uniqueMember: cn=GE Lighting-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
503    uniqueMember: cn=Spark-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
504    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
505    uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
506    uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
507    uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
508    uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
509    uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
510    uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
511    uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
512    uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
513    uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
514    cn: WSUser
515
516    dn: cn=WSEditor,ou=Groups, dc=fatwire,dc=com
517    objectClass: top
518    objectClass: groupOfUniqueNames
519    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
520    uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
521    uniqueMember:
       cn=user_approver,ou=People,dc=fatwire,dc=com
522    uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
523    uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
524    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
525    uniqueMember:
       cn=user_marketer,ou=People,dc=fatwire,dc=com
526    uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
527    uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
528    uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
529    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
530    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
531    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
532    uniqueMember: cn=Spark-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
533    uniqueMember: cn=HelloAssetWorld-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
534    uniqueMember: cn=BurlingtonFinancial-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
535    uniqueMember: cn=GE Lighting-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
536    uniqueMember: cn=Spark-
       SparkContentUser,ou=Groups,dc=fatwire,dc=com
```

```
537    uniqueMember: cn=HelloAssetWorld-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
538    uniqueMember: cn=BurlingtonFinancial-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
539    uniqueMember: cn=GE Lighting-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
540    uniqueMember: cn=Spark-
       SparkDocumentUser,ou=Groups,dc=fatwire,dc=com
541    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
542    uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
543    uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
544    uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
545    uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
546    uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
547    uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
548    uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
549    uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
550    uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
551    cn: WSEditor
552
553    dn: cn=WSAdmin,ou=Groups, dc=fatwire,dc=com
554    objectClass: top
555    objectClass: groupOfUniqueNames
556    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
557    uniqueMember: cn=HelloAssetWorld-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
558    uniqueMember: cn=BurlingtonFinancial-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
559    uniqueMember: cn=GE Lighting-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
560    uniqueMember: cn=Spark-
       SparkAdmin,ou=Groups,dc=fatwire,dc=com
561    uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
562    cn: WSAdmin
563
564    dn: cn=fwadmin,ou=People, dc=fatwire,dc=com
565    userPassword:: eGNlbGFkbWlu
566    objectClass: top
567    objectClass: person
568    objectClass: organizationalPerson
569    sn: fwadmin
570    cn: fwadmin
571
572    dn: cn=Analyzer,ou=Groups, dc=fatwire,dc=com
573    objectClass: top
574    objectClass: groupOfUniqueNames
575    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
576    cn: Analyzer
577
578    dn: cn=HelloAssetWorld-HelloAuthor,ou=Groups,
       dc=fatwire,dc=com
579    objectClass: top
```

```
580    objectClass: groupOfUniqueNames
581    uniqueMember: cn=Joe,ou=People,dc=fatwire,dc=com
582    uniqueMember: cn=Moe,ou=People,dc=fatwire,dc=com
583    cn: HelloAssetWorld-HelloAuthor
584
585    dn: cn=HelloAssetWorld-HelloDesigner,ou=Groups,
       dc=fatwire,dc=com
586    objectClass: top
587    objectClass: groupOfUniqueNames
588    uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
589    cn: HelloAssetWorld-HelloDesigner
590
591    dn: cn=HelloAssetWorld-HelloEditor,ou=Groups,
       dc=fatwire,dc=com
592    objectClass: top
593    objectClass: groupOfUniqueNames
594    uniqueMember: cn=Flo,ou=People,dc=fatwire,dc=com
595    cn: HelloAssetWorld-HelloEditor
596
597    dn: cn=Coco,ou=People, dc=fatwire,dc=com
598    userPassword:: aGVsbG8=
599    objectClass: top
600    objectClass: person
601    objectClass: organizationalPerson
602    sn: Coco
603    cn: Coco
604
605    dn: cn=HelloAssetWorld-GeneralAdmin,ou=Groups,
       dc=fatwire,dc=com
606    objectClass: top
607    objectClass: groupOfUniqueNames
608    uniqueMember: cn=Coco,ou=People,dc=fatwire,dc=com
609    uniqueMember: cn=Bobo,ou=People,dc=fatwire,dc=com
610    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
611    cn: HelloAssetWorld-GeneralAdmin
612
613    dn: cn=Bobo,ou=People, dc=fatwire,dc=com
614    userPassword:: aGVsbG8=
615    objectClass: top
616    objectClass: person
617    objectClass: organizationalPerson
618    sn: Bobo
619    cn: Bobo
620
621    dn: cn=HelloAssetWorld-WorkflowAdmin,ou=Groups,
       dc=fatwire,dc=com
622    objectClass: top
623    objectClass: groupOfUniqueNames
624    uniqueMember: cn=Bobo,ou=People,dc=fatwire,dc=com
625    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
626    cn: HelloAssetWorld-WorkflowAdmin
627
```

```
628    dn: cn=Flo,ou=People, dc=fatwire,dc=com
629    userPassword:: aGVsbG8=
630    objectClass: top
631    objectClass: person
632    objectClass: organizationalPerson
633    sn: Flo
634    cn: Flo
635
636    dn: cn=Joe,ou=People, dc=fatwire,dc=com
637    userPassword:: aGVsbG8=
638    objectClass: top
639    objectClass: person
640    objectClass: organizationalPerson
641    sn: Joe
642    cn: Joe
643
644    dn: cn=Moe,ou=People, dc=fatwire,dc=com
645    userPassword:: aGVsbG8=
646    objectClass: top
647    objectClass: person
648    objectClass: organizationalPerson
649    sn: Moe
650    cn: Moe
651
652    dn: cn=HelloAssetWorld-Designer,ou=Groups,
       dc=fatwire,dc=com
653    objectClass: top
654    objectClass: groupOfUniqueNames
655    cn: HelloAssetWorld-Designer
656
657    dn: cn=HelloAssetWorld-Author,ou=Groups,
       dc=fatwire,dc=com
658    objectClass: top
659    objectClass: groupOfUniqueNames
660    cn: HelloAssetWorld-Author
661
662    dn: cn=HelloAssetWorld-Editor,ou=Groups,
       dc=fatwire,dc=com
663    objectClass: top
664    objectClass: groupOfUniqueNames
665    cn: HelloAssetWorld-Editor
666
667    dn: cn=HelloAssetWorld-Approver,ou=Groups,
       dc=fatwire,dc=com
668    objectClass: top
669    objectClass: groupOfUniqueNames
670    cn: HelloAssetWorld-Approver
671
672    dn: cn=HelloAssetWorld-Checker,ou=Groups,
       dc=fatwire,dc=com
673    objectClass: top
674    objectClass: groupOfUniqueNames
```

```
675    cn: HelloAssetWorld-Checker
676
677    dn: cn=user_designer,ou=People, dc=fatwire,dc=com
678    userPassword:: dXNlcg==
679    objectClass: top
680    objectClass: person
681    objectClass: organizationalPerson
682    sn: user_designer
683    cn: user_designer
684
685    dn: cn=BurlingtonFinancial-Designer,ou=Groups,
       dc=fatwire,dc=com
686    objectClass: top
687    objectClass: groupOfUniqueNames
688    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
689    uniqueMember:
       cn=user_marketer,ou=People,dc=fatwire,dc=com
690    cn: BurlingtonFinancial-Designer
691
692    dn: cn=user_author,ou=People, dc=fatwire,dc=com
693    userPassword:: dXNlcg==
694    objectClass: top
695    objectClass: person
696    objectClass: organizationalPerson
697    sn: user_author
698    cn: user_author
699
700    dn: cn=BurlingtonFinancial-Author,ou=Groups,
       dc=fatwire,dc=com
701    objectClass: top
702    objectClass: groupOfUniqueNames
703    uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
704    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
705    cn: BurlingtonFinancial-Author
706
707    dn: cn=user_approver,ou=People, dc=fatwire,dc=com
708    userPassword:: dXNlcg==
709    objectClass: top
710    objectClass: person
711    objectClass: organizationalPerson
712    sn: user_approver
713    cn: user_approver
714
715    dn: cn=BurlingtonFinancial-Approver,ou=Groups,
       dc=fatwire,dc=com
716    objectClass: top
717    objectClass: groupOfUniqueNames
718    uniqueMember:
       cn=user_approver,ou=People,dc=fatwire,dc=com
719    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
720    cn: BurlingtonFinancial-Approver
```

```
721
722    dn: cn=user_checker,ou=People, dc=fatwire,dc=com
723    userPassword:: dXNlcg==
724    objectClass: top
725    objectClass: person
726    objectClass: organizationalPerson
727    sn: user_checker
728    cn: user_checker
729
730    dn: cn=BurlingtonFinancial-Checker,ou=Groups,
       dc=fatwire,dc=com
731    objectClass: top
732    objectClass: groupOfUniqueNames
733    uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
734    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
735    cn: BurlingtonFinancial-Checker
736
737    dn: cn=user_editor,ou=People, dc=fatwire,dc=com
738    userPassword:: dXNlcg==
739    objectClass: top
740    objectClass: person
741    objectClass: organizationalPerson
742    sn: user_editor
743    cn: user_editor
744
745    dn: cn=BurlingtonFinancial-Editor,ou=Groups,
       dc=fatwire,dc=com
746    objectClass: top
747    objectClass: groupOfUniqueNames
748    uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
749    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
750    cn: BurlingtonFinancial-Editor
751
752    dn: cn=BurlingtonFinancial-SiteAdmin,ou=Groups,
       dc=fatwire,dc=com
753    objectClass: top
754    objectClass: groupOfUniqueNames
755    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
756    cn: BurlingtonFinancial-SiteAdmin
757
758    dn: cn=BurlingtonFinancial-WorkflowAdmin,ou=Groups,
       dc=fatwire,dc=com
759    objectClass: top
760    objectClass: groupOfUniqueNames
761    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
762    cn: BurlingtonFinancial-WorkflowAdmin
763
764    dn: cn=BurlingtonFinancial-GeneralAdmin,ou=Groups,
       dc=fatwire,dc=com
765    objectClass: top
766    objectClass: groupOfUniqueNames
767    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
```

```
768    cn: BurlingtonFinancial-GeneralAdmin
769
770    dn: cn=editor,ou=People, dc=fatwire,dc=com
771    userPassword:: eGNlbGVkaXRvcg==
772    objectClass: top
773    objectClass: person
774    objectClass: organizationalPerson
775    sn: editor
776    cn: editor
777
778    dn: cn=mirroruser,ou=People, dc=fatwire,dc=com
779    userPassword:: bWlycm9ydXNlcg==
780    objectClass: top
781    objectClass: person
782    objectClass: organizationalPerson
783    sn: mirroruser
784    cn: mirroruser
785
786    dn: cn=GE Lighting-Designer,ou=Groups, dc=fatwire,dc=com
787    objectClass: top
788    objectClass: groupOfUniqueNames
789    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
790    uniqueMember:
       cn=user_designer,ou=People,dc=fatwire,dc=com
791    uniqueMember:
       cn=user_marketer,ou=People,dc=fatwire,dc=com
792    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
793    cn: GE Lighting-Designer
794
795    dn: cn=GE Lighting-SiteAdmin,ou=Groups, dc=fatwire,dc=com
796    objectClass: top
797    objectClass: groupOfUniqueNames
798    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
799    cn: GE Lighting-SiteAdmin
800
801    dn: cn=GE Lighting-WorkflowAdmin,ou=Groups,
       dc=fatwire,dc=com
802    objectClass: top
803    objectClass: groupOfUniqueNames
804    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
805    cn: GE Lighting-WorkflowAdmin
806
807    dn: cn=GE Lighting-GeneralAdmin,ou=Groups,
       dc=fatwire,dc=com
808    objectClass: top
809    objectClass: groupOfUniqueNames
810    uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
811    cn: GE Lighting-GeneralAdmin
812
813    dn: cn=GE Lighting-Checker,ou=Groups, dc=fatwire,dc=com
814    objectClass: top
815    objectClass: groupOfUniqueNames
```

```
816    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
817    uniqueMember: cn=user_checker,ou=People,dc=fatwire,dc=com
818    cn: GE Lighting-Checker
819
820    dn: cn=GE Lighting-Editor,ou=Groups, dc=fatwire,dc=com
821    objectClass: top
822    objectClass: groupOfUniqueNames
823    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
824    uniqueMember: cn=user_editor,ou=People,dc=fatwire,dc=com
825    cn: GE Lighting-Editor
826
827    dn: cn=GE Lighting-Author,ou=Groups, dc=fatwire,dc=com
828    objectClass: top
829    objectClass: groupOfUniqueNames
830    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
831    uniqueMember: cn=user_author,ou=People,dc=fatwire,dc=com
832    cn: GE Lighting-Author
833
834    dn: cn=GE Lighting-Approver,ou=Groups, dc=fatwire,dc=com
835    objectClass: top
836    objectClass: groupOfUniqueNames
837    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
838    uniqueMember:
       cn=user_approver,ou=People,dc=fatwire,dc=com
839    cn: GE Lighting-Approver
840
841    dn: cn=HelloAssetWorld-Pricer,ou=Groups,
       dc=fatwire,dc=com
842    objectClass: top
843    objectClass: groupOfUniqueNames
844    cn: HelloAssetWorld-Pricer
845
846    dn: cn=BurlingtonFinancial-Pricer,ou=Groups,
       dc=fatwire,dc=com
847    objectClass: top
848    objectClass: groupOfUniqueNames
849    cn: BurlingtonFinancial-Pricer
850
851    dn: cn=GE Lighting-Pricer,ou=Groups, dc=fatwire,dc=com
852    objectClass: top
853    objectClass: groupOfUniqueNames
854    uniqueMember: cn=user_pricer,ou=People,dc=fatwire,dc=com
855    uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
856    cn: GE Lighting-Pricer
857
858    dn: cn=user_marketer,ou=People, dc=fatwire,dc=com
859    userPassword:: dXNlcg==
860    objectClass: top
861    objectClass: person
862    objectClass: organizationalPerson
863    sn: user_marketer
864    cn: user_marketer
```

```
865
866   dn: cn=user_pricer,ou=People, dc=fatwire,dc=com
867   userPassword:: dXNlcg==
868   objectClass: top
869   objectClass: person
870   objectClass: organizationalPerson
871   sn: user_pricer
872   cn: user_pricer
873
874   dn: cn=HelloAssetWorld-Marketer,ou=Groups,
      dc=fatwire,dc=com
875   objectClass: top
876   objectClass: groupOfUniqueNames
877   cn: HelloAssetWorld-Marketer
878
879   dn: cn=BurlingtonFinancial-Marketer,ou=Groups,
      dc=fatwire,dc=com
880   objectClass: top
881   objectClass: groupOfUniqueNames
882   uniqueMember:
      cn=user_marketer,ou=People,dc=fatwire,dc=com
883   cn: BurlingtonFinancial-Marketer
884
885   dn: cn=GE Lighting-Marketer,ou=Groups, dc=fatwire,dc=com
886   objectClass: top
887   objectClass: groupOfUniqueNames
888   uniqueMember: cn=editor,ou=People,dc=fatwire,dc=com
889   uniqueMember:
      cn=user_marketer,ou=People,dc=fatwire,dc=com
890   cn: GE Lighting-Marketer
891
892   dn: cn=HelloAssetWorld-Analyst,ou=Groups,
      dc=fatwire,dc=com
893   objectClass: top
894   objectClass: groupOfUniqueNames
895   cn: HelloAssetWorld-Analyst
896
897   dn: cn=BurlingtonFinancial-Analyst,ou=Groups,
      dc=fatwire,dc=com
898   objectClass: top
899   objectClass: groupOfUniqueNames
900   uniqueMember: cn=user_analyst,ou=People,dc=fatwire,dc=com
901   cn: BurlingtonFinancial-Analyst
902
903   dn: cn=GE Lighting-Analyst,ou=Groups, dc=fatwire,dc=com
904   objectClass: top
905   objectClass: groupOfUniqueNames
906   cn: GE Lighting-Analyst
907
908   dn: cn=HelloAssetWorld-Expert,ou=Groups,
      dc=fatwire,dc=com
909   objectClass: top
```

```
910    objectClass: groupOfUniqueNames
911    cn: HelloAssetWorld-Expert
912
913    dn: cn=BurlingtonFinancial-Expert,ou=Groups,
       dc=fatwire,dc=com
914    objectClass: top
915    objectClass: groupOfUniqueNames
916    uniqueMember: cn=user_expert,ou=People,dc=fatwire,dc=com
917    cn: BurlingtonFinancial-Expert
918
919    dn: cn=GE Lighting-Expert,ou=Groups, dc=fatwire,dc=com
920    objectClass: top
921    objectClass: groupOfUniqueNames
922    cn: GE Lighting-Expert
923
924    dn: cn=user_analyst,ou=People, dc=fatwire,dc=com
925    userPassword:: dXNlcg==
926    objectClass: top
927    objectClass: person
928    objectClass: organizationalPerson
929    sn: user_analyst
930    cn: user_analyst
931
932    dn: cn=user_expert,ou=People, dc=fatwire,dc=com
933    userPassword:: dXNlcg==
934    objectClass: top
935    objectClass: person
936    objectClass: organizationalPerson
937    sn: user_expert
938    cn: user_expert
939
940    dn: cn=HelloAssetWorld-SparkAdmin,ou=Groups,
       dc=fatwire,dc=com
941    objectClass: top
942    objectClass: groupOfUniqueNames
943    cn: HelloAssetWorld-SparkAdmin
944
945    dn: cn=BurlingtonFinancial-SparkAdmin,ou=Groups,
       dc=fatwire,dc=com
946    objectClass: top
947    objectClass: groupOfUniqueNames
948    cn: BurlingtonFinancial-SparkAdmin
949
950    dn: cn=GE Lighting-SparkAdmin,ou=Groups,
       dc=fatwire,dc=com
951    objectClass: top
952    objectClass: groupOfUniqueNames
953    cn: GE Lighting-SparkAdmin
954
955    dn: cn=Spark-SparkAdmin,ou=Groups, dc=fatwire,dc=com
956    objectClass: top
957    objectClass: groupOfUniqueNames
```

```
958   uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
959   cn: Spark-SparkAdmin
960
961   dn: cn=HelloAssetWorld-SparkContentUser,ou=Groups,
      dc=fatwire,dc=com
962   objectClass: top
963   objectClass: groupOfUniqueNames
964   cn: HelloAssetWorld-SparkContentUser
965
966   dn: cn=BurlingtonFinancial-SparkContentUser,ou=Groups,
      dc=fatwire,dc=com
967   objectClass: top
968   objectClass: groupOfUniqueNames
969   cn: BurlingtonFinancial-SparkContentUser
970
971   dn: cn=GE Lighting-SparkContentUser,ou=Groups,
      dc=fatwire,dc=com
972   objectClass: top
973   objectClass: groupOfUniqueNames
974   cn: GE Lighting-SparkContentUser
975
976   dn: cn=Spark-SparkContentUser,ou=Groups,
      dc=fatwire,dc=com
977   objectClass: top
978   objectClass: groupOfUniqueNames
979   uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
980   cn: Spark-SparkContentUser
981
982   dn: cn=HelloAssetWorld-SparkDocumentUser,ou=Groups,
      dc=fatwire,dc=com
983   objectClass: top
984   objectClass: groupOfUniqueNames
985   cn: HelloAssetWorld-SparkDocumentUser
986
987   dn: cn=BurlingtonFinancial-SparkDocumentUser,ou=Groups,
      dc=fatwire,dc=com
988   objectClass: top
989   objectClass: groupOfUniqueNames
990   cn: BurlingtonFinancial-SparkDocumentUser
991
992   dn: cn=GE Lighting-SparkDocumentUser,ou=Groups,
      dc=fatwire,dc=com
993   objectClass: top
994   objectClass: groupOfUniqueNames
995   cn: GE Lighting-SparkDocumentUser
996
997   dn: cn=Spark-SparkDocumentUser,ou=Groups,
      dc=fatwire,dc=com
998   objectClass: top
999   objectClass: groupOfUniqueNames
1000  uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
1001  cn: Spark-SparkDocumentUser
```

```
1002
1003   dn: cn=Spark-WorkflowAdmin,ou=Groups, dc=fatwire,dc=com
1004   objectClass: top
1005   objectClass: groupOfUniqueNames
1006   uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
1007   cn: Spark-WorkflowAdmin
1008
1009   dn: cn=Spark-SiteAdmin,ou=Groups, dc=fatwire,dc=com
1010   objectClass: top
1011   objectClass: groupOfUniqueNames
1012   uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
1013   cn: Spark-SiteAdmin
1014
1015   dn: cn=Spark-GeneralAdmin,ou=Groups, dc=fatwire,dc=com
1016   objectClass: top
1017   objectClass: groupOfUniqueNames
1018   uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
1019   cn: Spark-GeneralAdmin
1020
1021   dn: cn=ContentEditor,ou=Groups, dc=fatwire,dc=com
1022   objectClass: top
1023   objectClass: groupOfUniqueNames
1024   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1025   uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
1026   uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
1027   uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
1028   uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
1029   uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
1030   uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
1031   uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
1032   uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
1033   uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
1034   cn: ContentEditor
1035
1036   dn: cn=firstsite,ou=People, dc=fatwire,dc=com
1037   userPassword:: Zmlyc3RzaXRl
1038   objectClass: top
1039   objectClass: person
1040   objectClass: organizationalPerson
1041   sn: firstsite
1042   cn: firstsite
1043
1044   dn: cn=FirstSiteII-Approver,ou=Groups, dc=fatwire,dc=com
1045   objectClass: top
1046   objectClass: groupOfUniqueNames
1047   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1048   uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
1049   cn: FirstSiteII-Approver
1050
1051   dn: cn=FirstSiteII-Designer,ou=Groups, dc=fatwire,dc=com
1052   objectClass: top
1053   objectClass: groupOfUniqueNames
```

```
1054   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1055   uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
1056   cn: FirstSiteII-Designer
1057
1058   dn: cn=FirstSiteII-WorkflowAdmin,ou=Groups,
       dc=fatwire,dc=com
1059   objectClass: top
1060   objectClass: groupOfUniqueNames
1061   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1062   uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
1063   cn: FirstSiteII-WorkflowAdmin
1064
1065   dn: cn=FirstSiteII-SiteAdmin,ou=Groups, dc=fatwire,dc=com
1066   objectClass: top
1067   objectClass: groupOfUniqueNames
1068   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1069   uniqueMember: cn=Napoleon,ou=People,dc=fatwire,dc=com
1070   cn: FirstSiteII-SiteAdmin
1071
1072   dn: cn=FirstSiteII-GeneralAdmin,ou=Groups,
       dc=fatwire,dc=com
1073   objectClass: top
1074   objectClass: groupOfUniqueNames
1075   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1076   uniqueMember: cn=fwadmin,ou=People,dc=fatwire,dc=com
1077   cn: FirstSiteII-GeneralAdmin
1078
1079   dn: cn=HelloAssetWorld-MarketingAuthor,ou=Groups,
       dc=fatwire,dc=com
1080   objectClass: top
1081   objectClass: groupOfUniqueNames
1082   cn: HelloAssetWorld-MarketingAuthor
1083
1084   dn: cn=BurlingtonFinancial-MarketingAuthor,ou=Groups,
       dc=fatwire,dc=com
1085   objectClass: top
1086   objectClass: groupOfUniqueNames
1087   cn: BurlingtonFinancial-MarketingAuthor
1088
1089   dn: cn=GE Lighting-MarketingAuthor,ou=Groups,
       dc=fatwire,dc=com
1090   objectClass: top
1091   objectClass: groupOfUniqueNames
1092   cn: GE Lighting-MarketingAuthor
1093
1094   dn: cn=Spark-MarketingAuthor,ou=Groups, dc=fatwire,dc=com
1095   objectClass: top
1096   objectClass: groupOfUniqueNames
1097   cn: Spark-MarketingAuthor
1098
1099   dn: cn=FirstSiteII-MarketingAuthor,ou=Groups,
       dc=fatwire,dc=com
```

```
1100   objectClass: top
1101   objectClass: groupOfUniqueNames
1102   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1103   uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
1104   cn: FirstSiteII-MarketingAuthor
1105
1106   dn: cn=HelloAssetWorld-MarketingEditor,ou=Groups,
       dc=fatwire,dc=com
1107   objectClass: top
1108   objectClass: groupOfUniqueNames
1109   cn: HelloAssetWorld-MarketingEditor
1110
1111   dn: cn=BurlingtonFinancial-MarketingEditor,ou=Groups,
       dc=fatwire,dc=com
1112   objectClass: top
1113   objectClass: groupOfUniqueNames
1114   cn: BurlingtonFinancial-MarketingEditor
1115
1116   dn: cn=GE Lighting-MarketingEditor,ou=Groups,
       dc=fatwire,dc=com
1117   objectClass: top
1118   objectClass: groupOfUniqueNames
1119   cn: GE Lighting-MarketingEditor
1120
1121   dn: cn=Spark-MarketingEditor,ou=Groups, dc=fatwire,dc=com
1122   objectClass: top
1123   objectClass: groupOfUniqueNames
1124   cn: Spark-MarketingEditor
1125
1126   dn: cn=FirstSiteII-MarketingEditor,ou=Groups,
       dc=fatwire,dc=com
1127   objectClass: top
1128   objectClass: groupOfUniqueNames
1129   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1130   uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
1131   cn: FirstSiteII-MarketingEditor
1132
1133   dn: cn=HelloAssetWorld-ArtworkAuthor,ou=Groups,
       dc=fatwire,dc=com
1134   objectClass: top
1135   objectClass: groupOfUniqueNames
1136   cn: HelloAssetWorld-ArtworkAuthor
1137
1138   dn: cn=BurlingtonFinancial-ArtworkAuthor,ou=Groups,
       dc=fatwire,dc=com
1139   objectClass: top
1140   objectClass: groupOfUniqueNames
1141   cn: BurlingtonFinancial-ArtworkAuthor
1142
1143   dn: cn=GE Lighting-ArtworkAuthor,ou=Groups,
       dc=fatwire,dc=com
1144   objectClass: top
```

```
1145   objectClass: groupOfUniqueNames
1146   cn: GE Lighting-ArtworkAuthor
1147
1148   dn: cn=Spark-ArtworkAuthor,ou=Groups, dc=fatwire,dc=com
1149   objectClass: top
1150   objectClass: groupOfUniqueNames
1151   cn: Spark-ArtworkAuthor
1152
1153   dn: cn=FirstSiteII-ArtworkAuthor,ou=Groups,
       dc=fatwire,dc=com
1154   objectClass: top
1155   objectClass: groupOfUniqueNames
1156   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1157   uniqueMember: cn=Desiree,ou=People,dc=fatwire,dc=com
1158   uniqueMember: cn=Arthur,ou=People,dc=fatwire,dc=com
1159   cn: FirstSiteII-ArtworkAuthor
1160
1161   dn: cn=HelloAssetWorld-ArtworkEditor,ou=Groups,
       dc=fatwire,dc=com
1162   objectClass: top
1163   objectClass: groupOfUniqueNames
1164   cn: HelloAssetWorld-ArtworkEditor
1165
1166   dn: cn=BurlingtonFinancial-ArtworkEditor,ou=Groups,
       dc=fatwire,dc=com
1167   objectClass: top
1168   objectClass: groupOfUniqueNames
1169   cn: BurlingtonFinancial-ArtworkEditor
1170
1171   dn: cn=GE Lighting-ArtworkEditor,ou=Groups,
       dc=fatwire,dc=com
1172   objectClass: top
1173   objectClass: groupOfUniqueNames
1174   cn: GE Lighting-ArtworkEditor
1175
1176   dn: cn=Spark-ArtworkEditor,ou=Groups, dc=fatwire,dc=com
1177   objectClass: top
1178   objectClass: groupOfUniqueNames
1179   cn: Spark-ArtworkEditor
1180
1181   dn: cn=FirstSiteII-ArtworkEditor,ou=Groups,
       dc=fatwire,dc=com
1182   objectClass: top
1183   objectClass: groupOfUniqueNames
1184   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1185   uniqueMember: cn=Martha,ou=People,dc=fatwire,dc=com
1186   cn: FirstSiteII-ArtworkEditor
1187
1188   dn: cn=HelloAssetWorld-ContentAuthor,ou=Groups,
       dc=fatwire,dc=com
1189   objectClass: top
1190   objectClass: groupOfUniqueNames
```

```
1191   cn: HelloAssetWorld-ContentAuthor
1192
1193   dn: cn=BurlingtonFinancial-ContentAuthor,ou=Groups,
       dc=fatwire,dc=com
1194   objectClass: top
1195   objectClass: groupOfUniqueNames
1196   cn: BurlingtonFinancial-ContentAuthor
1197
1198   dn: cn=GE Lighting-ContentAuthor,ou=Groups,
       dc=fatwire,dc=com
1199   objectClass: top
1200   objectClass: groupOfUniqueNames
1201   cn: GE Lighting-ContentAuthor
1202
1203   dn: cn=Spark-ContentAuthor,ou=Groups, dc=fatwire,dc=com
1204   objectClass: top
1205   objectClass: groupOfUniqueNames
1206   cn: Spark-ContentAuthor
1207
1208   dn: cn=FirstSiteII-ContentAuthor,ou=Groups,
       dc=fatwire,dc=com
1209   objectClass: top
1210   objectClass: groupOfUniqueNames
1211   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1212   uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
1213   cn: FirstSiteII-ContentAuthor
1214
1215   dn: cn=HelloAssetWorld-ContentEditor,ou=Groups,
       dc=fatwire,dc=com
1216   objectClass: top
1217   objectClass: groupOfUniqueNames
1218   cn: HelloAssetWorld-ContentEditor
1219
1220   dn: cn=BurlingtonFinancial-ContentEditor,ou=Groups,
       dc=fatwire,dc=com
1221   objectClass: top
1222   objectClass: groupOfUniqueNames
1223   cn: BurlingtonFinancial-ContentEditor
1224
1225   dn: cn=GE Lighting-ContentEditor,ou=Groups,
       dc=fatwire,dc=com
1226   objectClass: top
1227   objectClass: groupOfUniqueNames
1228   cn: GE Lighting-ContentEditor
1229
1230   dn: cn=Spark-ContentEditor,ou=Groups, dc=fatwire,dc=com
1231   objectClass: top
1232   objectClass: groupOfUniqueNames
1233   cn: Spark-ContentEditor
1234
1235   dn: cn=FirstSiteII-ContentEditor,ou=Groups,
       dc=fatwire,dc=com
```

```
1236   objectClass: top
1237   objectClass: groupOfUniqueNames
1238   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1239   uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
1240   cn: FirstSiteII-ContentEditor
1241
1242   dn: cn=HelloAssetWorld-ProductAuthor,ou=Groups,
       dc=fatwire,dc=com
1243   objectClass: top
1244   objectClass: groupOfUniqueNames
1245   cn: HelloAssetWorld-ProductAuthor
1246
1247   dn: cn=BurlingtonFinancial-ProductAuthor,ou=Groups,
       dc=fatwire,dc=com
1248   objectClass: top
1249   objectClass: groupOfUniqueNames
1250   cn: BurlingtonFinancial-ProductAuthor
1251
1252   dn: cn=GE Lighting-ProductAuthor,ou=Groups,
       dc=fatwire,dc=com
1253   objectClass: top
1254   objectClass: groupOfUniqueNames
1255   cn: GE Lighting-ProductAuthor
1256
1257   dn: cn=Spark-ProductAuthor,ou=Groups, dc=fatwire,dc=com
1258   objectClass: top
1259   objectClass: groupOfUniqueNames
1260   cn: Spark-ProductAuthor
1261
1262   dn: cn=FirstSiteII-ProductAuthor,ou=Groups,
       dc=fatwire,dc=com
1263   objectClass: top
1264   objectClass: groupOfUniqueNames
1265   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1266   uniqueMember: cn=Mark,ou=People,dc=fatwire,dc=com
1267   cn: FirstSiteII-ProductAuthor
1268
1269   dn: cn=HelloAssetWorld-ProductEditor,ou=Groups,
       dc=fatwire,dc=com
1270   objectClass: top
1271   objectClass: groupOfUniqueNames
1272   cn: HelloAssetWorld-ProductEditor
1273
1274   dn: cn=BurlingtonFinancial-ProductEditor,ou=Groups,
       dc=fatwire,dc=com
1275   objectClass: top
1276   objectClass: groupOfUniqueNames
1277   cn: BurlingtonFinancial-ProductEditor
1278
1279   dn: cn=GE Lighting-ProductEditor,ou=Groups,
       dc=fatwire,dc=com
1280   objectClass: top
```

```
1281   objectClass: groupOfUniqueNames
1282   cn: GE Lighting-ProductEditor
1283
1284   dn: cn=Spark-ProductEditor,ou=Groups, dc=fatwire,dc=com
1285   objectClass: top
1286   objectClass: groupOfUniqueNames
1287   cn: Spark-ProductEditor
1288
1289   dn: cn=FirstSiteII-ProductEditor,ou=Groups,
       dc=fatwire,dc=com
1290   objectClass: top
1291   objectClass: groupOfUniqueNames
1292   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1293   uniqueMember: cn=Rose,ou=People,dc=fatwire,dc=com
1294   uniqueMember: cn=Mary,ou=People,dc=fatwire,dc=com
1295   cn: FirstSiteII-ProductEditor
1296
1297   dn: cn=HelloAssetWorld-DocumentAuthor,ou=Groups,
       dc=fatwire,dc=com
1298   objectClass: top
1299   objectClass: groupOfUniqueNames
1300   cn: HelloAssetWorld-DocumentAuthor
1301
1302   dn: cn=BurlingtonFinancial-DocumentAuthor,ou=Groups,
       dc=fatwire,dc=com
1303   objectClass: top
1304   objectClass: groupOfUniqueNames
1305   cn: BurlingtonFinancial-DocumentAuthor
1306
1307   dn: cn=GE Lighting-DocumentAuthor,ou=Groups,
       dc=fatwire,dc=com
1308   objectClass: top
1309   objectClass: groupOfUniqueNames
1310   cn: GE Lighting-DocumentAuthor
1311
1312   dn: cn=Spark-DocumentAuthor,ou=Groups, dc=fatwire,dc=com
1313   objectClass: top
1314   objectClass: groupOfUniqueNames
1315   cn: Spark-DocumentAuthor
1316
1317   dn: cn=FirstSiteII-DocumentAuthor,ou=Groups,
       dc=fatwire,dc=com
1318   objectClass: top
1319   objectClass: groupOfUniqueNames
1320   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1321   uniqueMember: cn=Conrad,ou=People,dc=fatwire,dc=com
1322   cn: FirstSiteII-DocumentAuthor
1323
1324   dn: cn=HelloAssetWorld-DocumentEditor,ou=Groups,
       dc=fatwire,dc=com
1325   objectClass: top
1326   objectClass: groupOfUniqueNames
```

```
1327   cn: HelloAssetWorld-DocumentEditor
1328
1329   dn: cn=BurlingtonFinancial-DocumentEditor,ou=Groups,
       dc=fatwire,dc=com
1330   objectClass: top
1331   objectClass: groupOfUniqueNames
1332   cn: BurlingtonFinancial-DocumentEditor
1333
1334   dn: cn=GE Lighting-DocumentEditor,ou=Groups,
       dc=fatwire,dc=com
1335   objectClass: top
1336   objectClass: groupOfUniqueNames
1337   cn: GE Lighting-DocumentEditor
1338
1339   dn: cn=Spark-DocumentEditor,ou=Groups, dc=fatwire,dc=com
1340   objectClass: top
1341   objectClass: groupOfUniqueNames
1342   cn: Spark-DocumentEditor
1343
1344   dn: cn=FirstSiteII-DocumentEditor,ou=Groups,
       dc=fatwire,dc=com
1345   objectClass: top
1346   objectClass: groupOfUniqueNames
1347   uniqueMember: cn=firstsite,ou=People,dc=fatwire,dc=com
1348   uniqueMember: cn=Connie,ou=People,dc=fatwire,dc=com
1349   cn: FirstSiteII-DocumentEditor
1350
1351   dn: cn=Connie,ou=People, dc=fatwire,dc=com
1352   userPassword:: Zmlyc3RzaXRl
1353   objectClass: top
1354   objectClass: person
1355   objectClass: organizationalPerson
1356   sn: Connie
1357   cn: Connie
1358
1359   dn: cn=Conrad,ou=People, dc=fatwire,dc=com
1360   userPassword:: Zmlyc3RzaXRl
1361   objectClass: top
1362   objectClass: person
1363   objectClass: organizationalPerson
1364   sn: Conrad
1365   cn: Conrad
1366
1367   dn: cn=Desiree,ou=People, dc=fatwire,dc=com
1368   userPassword:: Zmlyc3RzaXRl
1369   objectClass: top
1370   objectClass: person
1371   objectClass: organizationalPerson
1372   sn: Desiree
1373   cn: Desiree
1374
1375   dn: cn=Napoleon,ou=People, dc=fatwire,dc=com
```

```
1376  userPassword:: Zmlyc3RzaXRl
1377  objectClass: top
1378  objectClass: person
1379  objectClass: organizationalPerson
1380  sn: Napoleon
1381  cn: Napoleon
1382
1383  dn: cn=Arthur,ou=People, dc=fatwire,dc=com
1384  userPassword:: Zmlyc3RzaXRl
1385  objectClass: top
1386  objectClass: person
1387  objectClass: organizationalPerson
1388  sn: Arthur
1389  cn: Arthur
1390
1391  dn: cn=Martha,ou=People, dc=fatwire,dc=com
1392  userPassword:: Zmlyc3RzaXRl
1393  objectClass: top
1394  objectClass: person
1395  objectClass: organizationalPerson
1396  sn: Martha
1397  cn: Martha
1398
1399  dn: cn=Rose,ou=People, dc=fatwire,dc=com
1400  userPassword:: Zmlyc3RzaXRl
1401  objectClass: top
1402  objectClass: person
1403  objectClass: organizationalPerson
1404  sn: Rose
1405  cn: Rose
1406
1407  dn: cn=Mark,ou=People, dc=fatwire,dc=com
1408  userPassword:: Zmlyc3RzaXRl
1409  objectClass: top
1410  objectClass: person
1411  objectClass: organizationalPerson
1412  sn: Mark
1413  cn: Mark
1414
1415  dn: cn=Mary,ou=People, dc=fatwire,dc=com
1416  userPassword:: Zmlyc3RzaXRl
1417  objectClass: top
1418  objectClass: person
1419  objectClass: organizationalPerson
1420  sn: Mary
1421  cn: Mary
```