

# 1 Configuration

The following process allows you to configure exacqVision permissions and privileges for accounts that exist on an Active Directory server:

**NOTE:** The domain controller must run on Windows Server 2003 operating system or later.

1. On the Active Directory server, open the Windows Firewall control panel. In File and Printer Sharing, verify that all four rules are listed (usually TCP port 139, TCP port 445, UDP port 137, and UDP port 138). If you want to connect from a different subnet, click Change Scope and specify a custom list, as in the following example:  

```
192.168.1.0/255.255.255.0,192.168.100.0/255.255.255.0
```
2. Add a rule for the DNS server (c:\windows\system32\dns.exe), observing the same scope setting if appropriate.
3. Add a rule for the Local Security Authentication Server (c:\windows\system32\lsass.exe), observing the same scope setting if appropriate.
4. Add rules for TCP ports 389 (standard cleartext LDAP) and 636 (standard SSL LDAP), observing the same scope setting if appropriate.
5. On the Active Directory server, enter 127.0.0.1 as its own DNS server address.
6. On the exacqVision server or client computer, designate the Active Directory server as the preferred DNS server. To do this, open Network Connections, right-click the connection and select Properties, select TCP/IP, click Properties, and enter the Active Directory server IP address as the Preferred DNS Server.
7. Make sure the Active Directory server's fully qualified host name can be resolved. To do this, open a command prompt, ping the fully qualified host name, and look for a reply.
8. Join the Windows system to the Active Directory domain. To do this, complete the following steps:
  - A. Open System Properties and select the Computer Name tab.
  - B. Click Change and type a computer name that is unique to all computers recognized by the Active Directory server.
  - C. Select Domain, enter the Active Directory domain, and click OK. For example, a valid domain entry might be "exacq.test.com" (not "EXACQTEST").
  - D. When prompted, enter a username and password for a domain account with the right to add computers to the domain.
  - E. Restart the system when prompted.
9. When the login screen appears after the system restarts, notice that the drop-down list contains the Active Directory domain. Select the domain and log in.
10. Open a command prompt and use ipconfig to ensure that the hostname and primary DNS suffix are correct.

11. Note the fully qualified host name (*hostname.primary-dns-suffix*) and IP address of the exacqVision server computer that you will connect to, the Active Directory domain, and the fully qualified host name and IP address of the Active Directory server. For example:

```
evserver.exacq.test.com      192.168.1.16
exacq.test.com
adserver2008.exacq.test.com  192.168.1.70
```

12. If installing an exacqVision server, add a service principal name on the Active Directory server for the exacqVision server. To do this, open a command prompt (right-click to run as an Administrator if necessary) on the Active Directory server and execute the following command, substituting the name and fully qualified hostname of your exacqVision Server:

```
setspn -A EDVR/evserver.exacq.test.com evserver
```

**NOTE:** All text after the forward slash should be lower case, and “EDVR” must be upper case.

13. On the exacqVision server or client computer, download and install the exacqVision software from [www.exacq.com](http://www.exacq.com). You must be logged in with Local Administrator privileges to do this. The software automatically starts after the installation is complete.
14. If installing an exacqVision server, license the exacqVision server as an Enterprise system. To do this, complete the following steps:

- A. Install the exacqVision Client software on the server if it is not already installed.
- B. Run the exacqVision Client and connect to the local server (127.0.0.1) using the default “admin” account.
- C. Open the System Setup page for the exacqVision server you want to license and select the System tab.
- D. Enter the valid Enterprise license as generated by exacq Technologies and click Apply in the License section.

15. If installing an exacqVision server, configure the directory settings. To do this, complete the following steps:

- A. In the exacqVision Client software, select the ActiveDirectory/LDAP tab on the System Setup page.
- B. Select the Enable Directory Service checkbox
- C. Select Active Directory in the LDAP Schema drop-down list.
- D. Enter the Active Directory server’s IP address in the Hostname/IP Address field.
- E. Select the SSL checkbox if you want LDAP operations to use secure SSL. If so, see the *Configuring SSL on an exacqVision Server* document.
- F. Verify the Active Directory server’s connection port. Unless you have reconfigured your Active Directory server, the port should be 636 when using SSL, or 389 without SSL.
- G. Enter the LDAP Base DN, the container of all directory user accounts or groups that you want to map in the exacqVision software. For example, if the domain were *exacq.test.com*, the LDAP Base DN might be:

```
CN=Users, DC=exacq, DC=test, DC=com
```

**NOTE:** Check with the system administrator for the correct LDAP Base DN for your situation.

- H. Enter the LDAP Binding DN, the fully qualified distinguished name (DN) of a directory user who has access to view the records of the directory user accounts. It is recommended that you enter the Administrator user account as the LDAP Binding DN. For example, if the domain were *exacq.test.com*, the LDAP Binding DN of the Administrator account would be:

```
CN=Administrator, CN=Users, DC=exacq, DC=test, DC=com
```

- I. Enter the password for the account entered in the previous step.
- J. To prevent any non-directory users that have previously been created from connecting to the exacqVision server (optional), deselect Enable Local User Accounts.
- K. Click Apply to connect. An indicator on the ActiveDirectory/LDAP tab displays the success or failure of the connection attempt.

## 2 Connecting to exacqVision Servers

You can connect to your Enterprise exacqVision servers from the Windows exacqVision Client software in any of the following ways:

- You can use a local exacqVision username and password.
- If you are already logged into Windows as a domain user, you can use your system login without entering a username or password. In this case, leave the username and password fields empty on the Add Systems page, select Use Single Sign-On, and click Apply.
- You can use any domain user account. Enter the account name in user@REALM format as the username (for example, "test.user@EXACQ.TEST.COM"), and use the password associated with that account. The realm must be in upper case, as shown in the example. Do NOT select Use Single Sign-On with this login method.

**NOTE:** If you attempt to connect to an exacqVision server using your system login without first logging in to Windows through the domain, the connection will fail.

## 3 Adding exacqVision Users from the Active Directory Database

When the exacqVision server is appropriately configured and connected to your Active Directory server, the Users page and the Enterprise User Setup page each contain a Query LDAP button that allows you to search for users or user groups configured in Active Directory. You can manage their exacqVision server permissions and privileges using the exacqVision Client the same way you would for a local user. On the System Information page, the Username column lists any connected Active Directory users along with their Active Directory origin (whether each user was mapped as an individual or part of a user group) in parentheses.