License Server Setup Guide

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AB Sciex UK Limited
Phoenix House
Lakeside Drive, Centre Park
Warrington Cheshire
WA1 1RX, UK

AB Sciex Pte. Ltd.
Blk33, #04-06 Marsiling Industrial Estate Road 3
Woodlands Central Industrial Estate, Singapore 739256

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Software License Requirements   1

This section explains the operating system and computer specification requirements that the license server computer must meet for the license server to operate.

Operating System Requirements

The license server requires Windows 7 (32-bit or 64-bit) operating system, Windows 10 (32-bit or 64-bit) operating system, Windows Server 2008 R2, or Windows Server 2012 R2.

Minimum Physical Requirements for the License Server Computer

- Processor: 1 gigahertz (GHz) or faster

- 1 GB RAM

- 1 GB available hard disk space

- Ethernet card with TCP/IPv4 configured

Software Requirements

The license server computer requires the Java Virtual Machine, available from https://www.java.com/en/download.

Obtain a License for the License Server   2

The license for a license server is node-locked. To obtain the license, have the following information ready and then contact SCIEX Sales.

- The software name and version number for which the license is required.

- The MAC address of the network interface card that is used to connect the computer to the network.

  Note: There can be more than one in a multi-homed host.

- The number of concurrent licenses to deploy.

This node-locked license file is needed for deployment of the license server.

Install the License Manager
Administrator (lmadmin) Server   3

1. Unzip the downloaded file *License-Server-Setup.zip*.

   It should contain the **FlexNet Publisher software (*lmadmin-i86_n3-11_14_1_1.exe*)**, the **Sciex Vendor Daemon software (*ScxMSSW0.exe*)**, and the **License Server Setup Guide (*License-Server-Setup-Guide.pdf*)**.

2. On the license server computer, make sure the Java Virtual Machine is installed. To obtain the latest version of Java, visit https://www.java.com/en/download.

3. Run the *lmadmin-i86_n3-11_14_1_1.exe* from the unzipped package and then install lmadmin.

4. Click **Next**.

5. Click **Next** on all of the subsequent pages until the Important Information page is shown.

6. Click **Install Visual C++ 2008 Redistributable Package**.

   Figure 3-1 Important Information Page
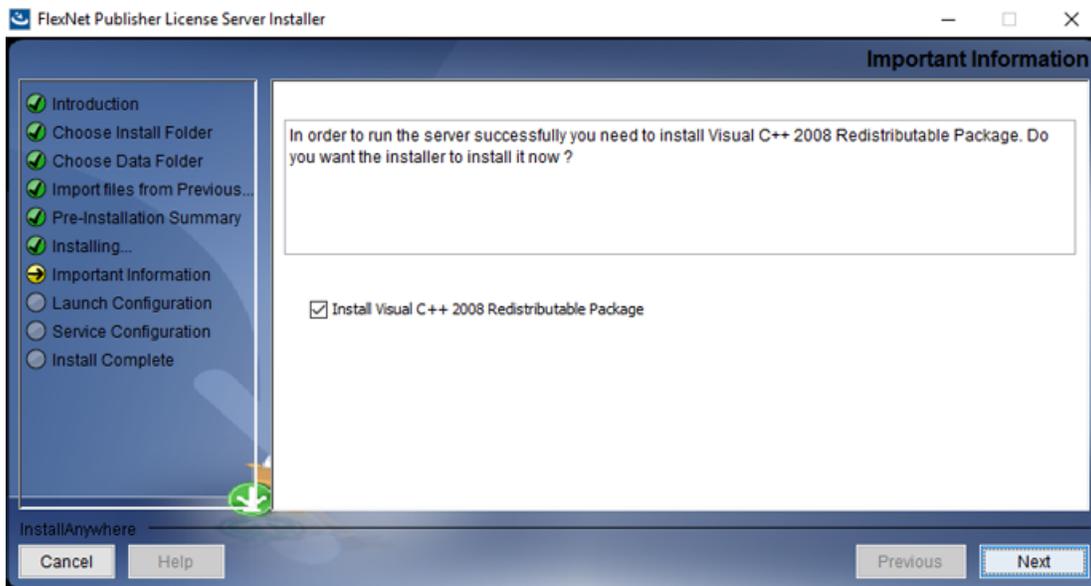
7. Click **Next**.

8. Click **Next** until the Service Configuration page is shown.

9. Select the **Run as a service** check box.

Figure 3-2 Service Configuration Page
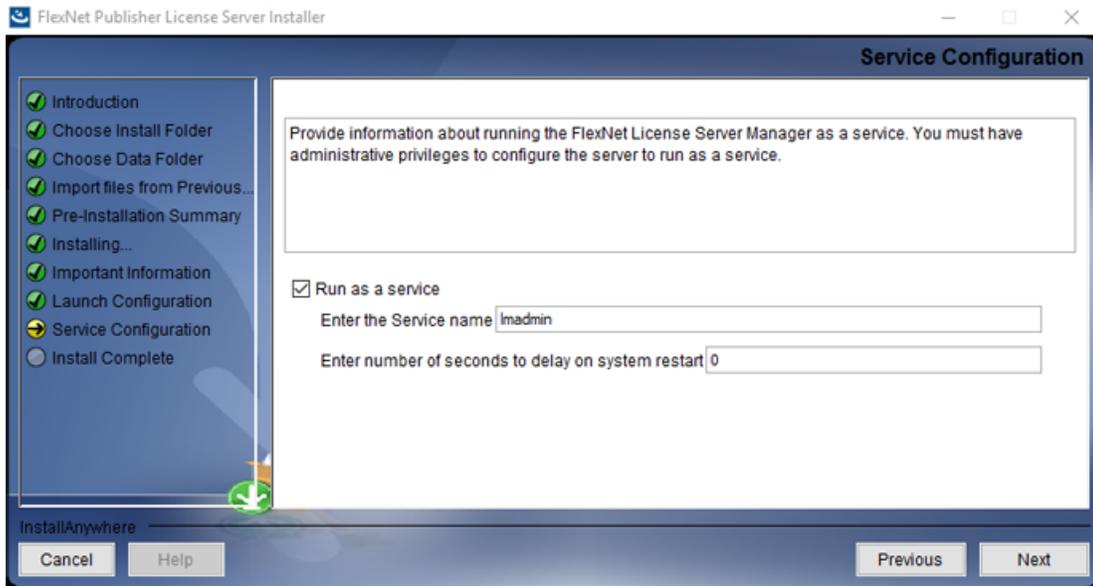
10. Click **Next**.

11. Click **Done**.

Deploy the License Server 4

1. Start the lmadmin Windows service.

2. Browse to http://localhost:8090/ on the computer.

3. Click the **Administration** tab and then type the username and password.

   The default username and password are admin.

   The user will be prompted to change the default password after signing in for the first time.

4. Copy the *ScxMSSW0.exe* from the unzipped package and then paste it directly in the appropriate folder, depending on the operating system:

   a. 64-bit Windows: C:\Program Files (x86)\FlexNet Publisher License Server Manager

   b. 32-bit Windows: C:\Program Files\FlexNet Publisher License Server Manager

5. Put the license file (obtained in Obtain a License for the License Server) that is node-locked to the Ethernet MAC address of the licensing server in the following folder depending on the operating system:

   a. 64-bit Windows: C:\Program Files (x86)\FlexNet Publisher License Server Manager\licenses\ScxMSSW0

   b. 32-bit Windows: C:\Program Files\FlexNet Publisher License Server Manager\licenses\ScxMSSW0

Note: Create the licenses\ScxMSSW0 directory structure if it does not already exist in the C:\Program Files (x86)\FlexNet Publisher License Server Manager folder on a Microsoft Windows 64-bit system or in the C:\Program Files\FlexNet Publisher License Server Manager folder on a Microsoft Windows 32-bit system. This is done to store the license file.

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6. Browse to http://localhost:8090/vendor.

7. Click **Import License** in Vendor Daemon Configuration.

8. Browse to the folder specified in step 5, select the license file, and then click **Open**.

9. Select the **Overwrite License File on License Server** check box and then click **Import License**.

Figure 4-1 Import License File Page
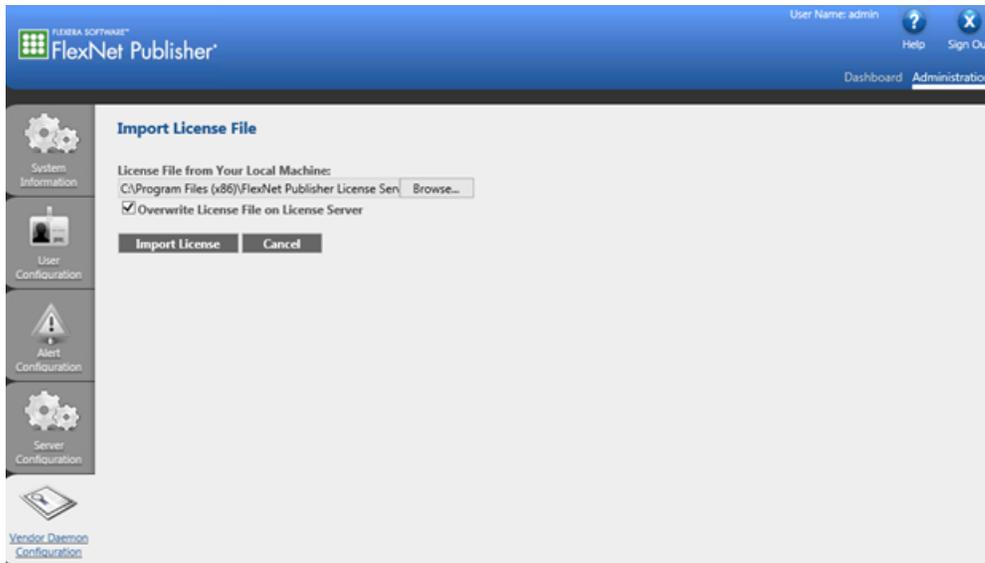
> **Note:** The license must be imported for server-based licensing to work.

If the import is successful, then a message is shown to indicate that the license file was uploaded successfully. Close the message. The FlexNet publisher window shows that the Vendor Daemons is running with the status Up.

Figure 4-2 Vendor Daemons

10. Click **Administer**.

Figure 4-3 Administer
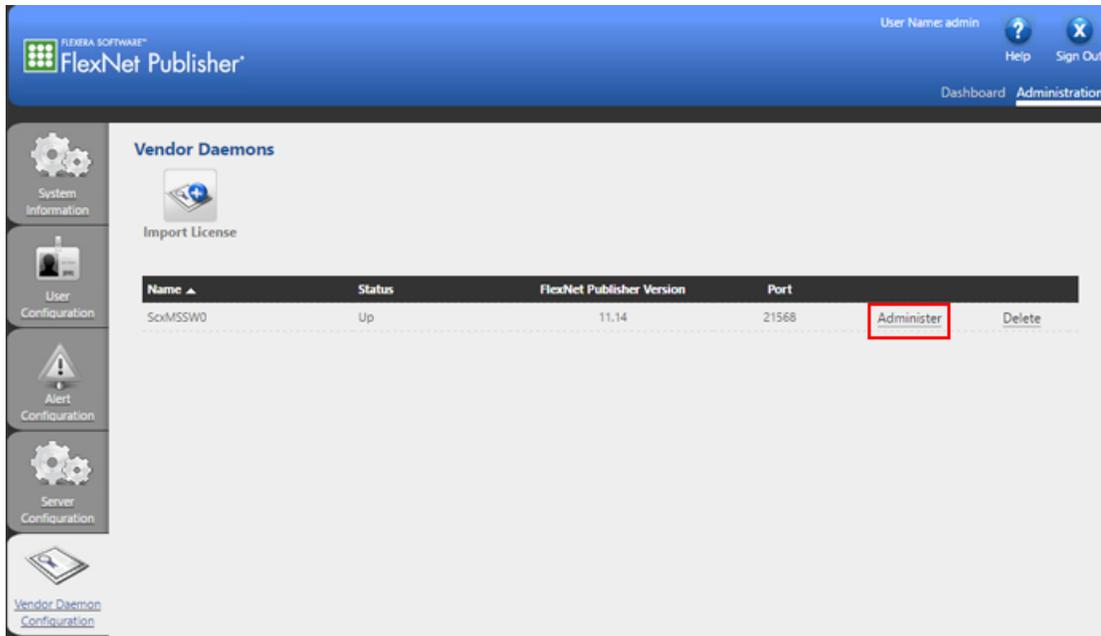
11. Type **27010** in the **Use this port** field to configure the **Vendor Daemon:ScxMSSW0** to use port **27010**.

Figure 4-4 Configure the Vendor Daemon Port
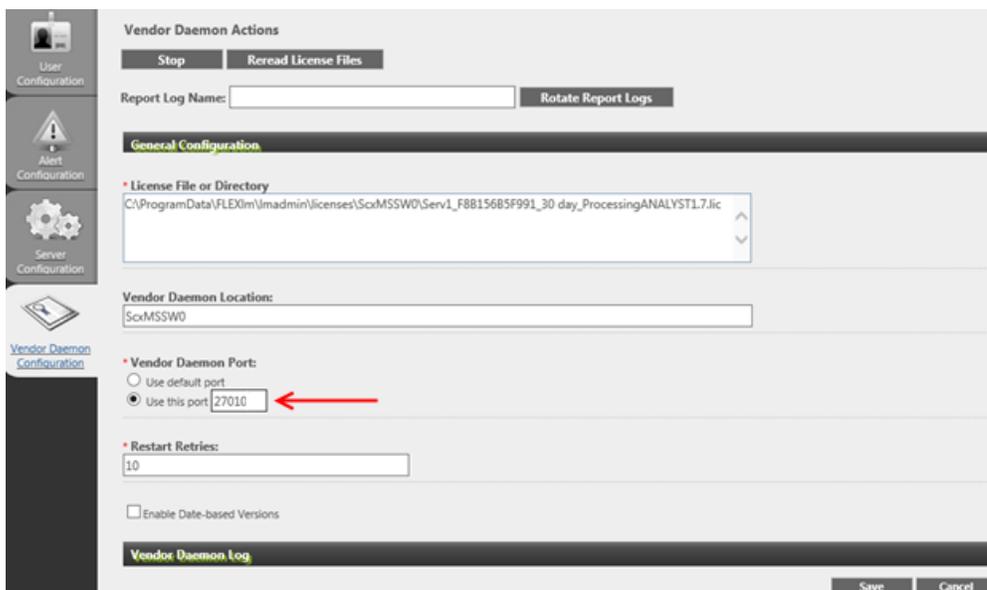
12. Click **Save** at the bottom of the page.

13. Click **Stop** to stop the Vendor Daemon Actions.

14. Click **Administer** again.

15. Click **Start** to start the Vendor Daemon Actions.

16. Change to the Dashboard tab and then back to the Administration tab.

Figure 4-5 Dashboard and Administration Tabs
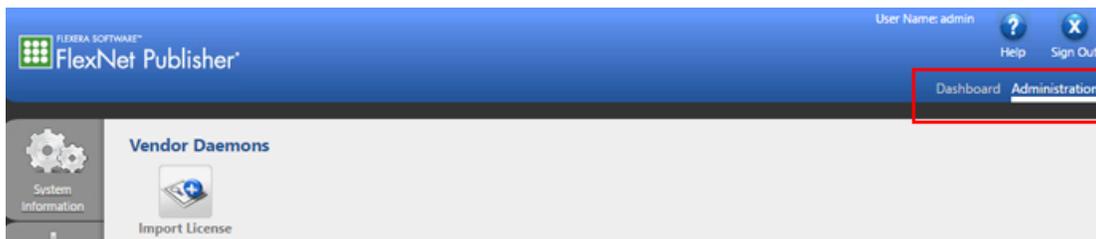
The status for Vendor Daemons shows as Up.

17. In the Windows Firewall with Advanced Security pane, add two new Windows Firewall rules, one Inbound Rule and one Outbound Rule, to allow both inbound and outbound TCP connections to the server on the following ports:

   • 8090 (for remote access to the FlexNet Publisher Administration)

   • 27000 (for FlexNet Publisher server)

   • 27010 (for Vendor Daemon)

Figure 4-6 Inbound Rule

Figure 4-7 Outbound Rule

If a different port, in the range of 27000 to 27009, is used for the FlexNet Publisher server, then adjust the Windows Firewall settings to allow this communication, if required.

18. On the server, browse to http://localhost:8090/.

19. Browse to the Server Configuration tab, expand the **License Server Configuration** section, select **Use this port**, and then type **27000**. Click **Save**.

Figure 4-8 Check Port Used by lmadmin
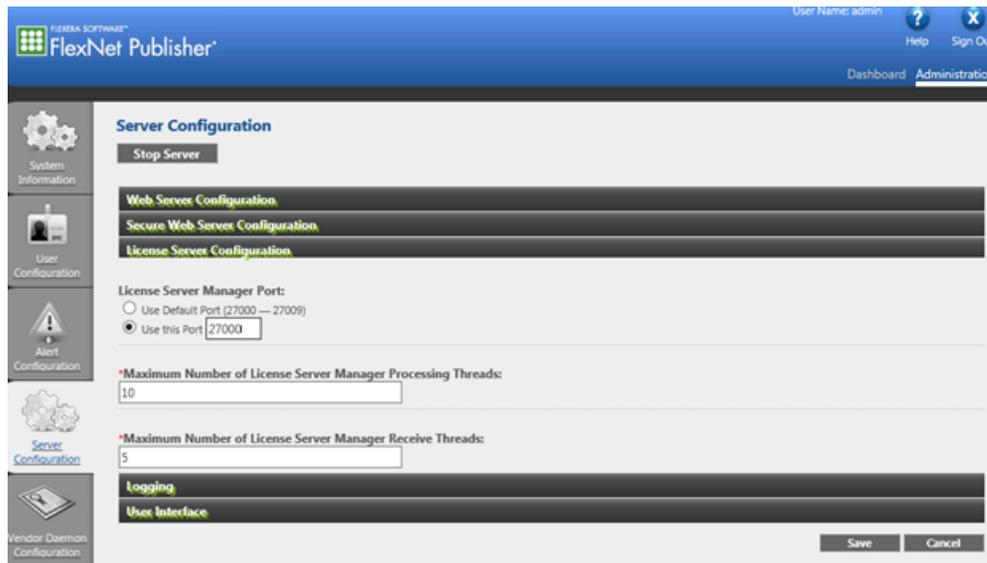
20. In Task Manager, stop the FlexNet Publisher Manager (lmadmin) service and then start it again.

Note: If the default range 27000 to 27009 is used, then verify which port the lmadmin is running on by opening the System Information tab.

License File for Client Computers 5

Note: The client computers on which the licensed SCIEX software are to be run must be on the network where the server is accessible.

Create and Setup a License File

A USE_SERVER license file is a special type of license file that contains a special keyword, USE_SERVER. The license file can be created in a text editor and then saved as an lic file with All Files file type selected.

The SERVER line must always be:

SERVER [IP or HOSTNAME] ANY [PORT]

The last line must be:

USE_SERVER.

We recommend using the server name instead of the TCP/IP address of the license server. The server name (HOSTNAME) should be the full computer name, including the domain, for example ServerComputerName.Domain.Net.

Create and save a USE_SERVER license file and then distribute it to each client.

Note: A specific license file name might be required for each software version for which the license is used. Refer to the *Installation Guide* for that software and then save the license file as *<the required license file name>*.lic.

Some example USE SERVER licenses are shown in Table 5-1. Copy these examples to a text editor and then replace the applicable information with the information for the server to create a new license file.

Table 5-1 USE_SERVER License Examples

	Examples
Example 1	SERVER CO.SERV.NET ANY 27000 USE_SERVER
Example 2	SERVER 168.254.0.80 ANY 27000 USE_SERVER

Licensing Rules 6

- On the license server, when importing a previously imported license again, make sure that the **Overwrite License file on License Server** option is selected before importing the license.

- If a different license file is imported for the same software application, then select the old license file path for the same application in the License File or Directory field and then press the Delete key. Click Save, stop Vendor Daemon, and then start Vendor Daemon again.

- After the maximum licensed number of clients has been reached, no more users can log on to the software application until after some client computers log off.

- Users are allowed to borrow a license from their software application to work offline for up to seven days. When a license is borrowed, the available number of licenses on the license server will be decreased by one until the user returns the borrowed license or until after seven days, whichever is sooner.

- A license can only be returned when the client is able to access the server.

- A user can only borrow a license when the user is logged on to the software application and the license will not expire within seven days.

Troubleshooting 7

- If Vendor Daemon is deleted from the Vendor Daemon Configuration tab in the FlexNet Publisher, then after importing the license file, make sure to reset the Vendor Daemon Port to use 27010 instead of the default port. Save and then start Vendor Daemon.

- A borrowed license might not be fully returned or the user might not be able to return it to the license server before 7 days have elapsed. Restarting the client computer might resolve the issue.

- To restart the license server, restart the computer or restart the lmadmin service in the Services tab in the Task Manager of the system.

- For any other issues, contact sciex.com/request-support.