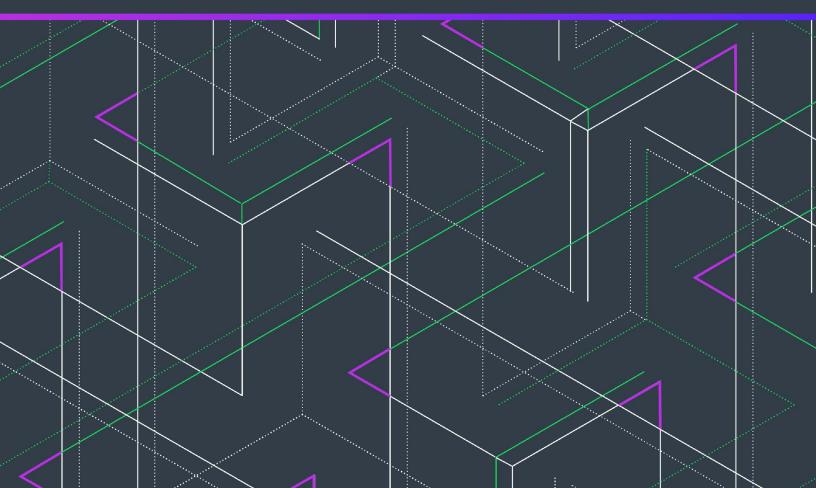


# FlexNet License Server Manager Guide 2025.03

FlexNet License Server Manager Guide



# **Legal Information**

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## FlexNet License Server Manager Guide

The FlexNet License Server Manager is a browser-based interface used to monitor and configure the local license server or a Cloud License Server (CLS) instance. This tool is provided as a separate package, called FlexnetLicenseServerManager-</version>.zip. The package is a Docker container which holds the image revenera/flsm:</version>.

### **FlexNet License Server Manager Video Walkthrough**

To watch a brief video that covers the end-to-end process for setting up and installing the FlexNet License Server Manager as well as a demonstration of its functionality, click one of the following links:

- Revenera Learning Center (login required): https://learning.revenera.com/flexnet-embedded-license-server/ 1828455
- YouTube: FlexNet License Server Manager Overview

### **Sections in this Guide**

The *FlexNet License Server Manager Guide* includes the following chapters to describe how to use the License Server Manager:

- FlexNet License Server Manager Requirements
- Customizing the FlexNet License Server Manager
- Setting Up the FlexNet License Server Manager
- Starting the FlexNet License Server Manager
- Updating the FlexNet License Server Manager
- License Server Manager Information and Settings
- Providing Credentials on a Secured License Server
- License Server Properties View
- Page Navigation for Views in the License Server Manager
- Features View

- Named License Pools View
- Devices View
- Reservations View
- Online Server Updates View
- Offline Server Updates View
- Client Key Operations View

### **FlexNet License Server Manager Requirements**

To run the FlexNet License Server Manager, you need a supported browser and run Docker.

#### **Best Practice: Updating to Latest Version**

Revenera recommend that you run the latest version of the FlexNet License Server Manager and local license server so that you benefit from recent fixes and enhancements.

#### **Supported Browsers**

The FlexNet License Server Manager UI supports the following browsers:

- Mozilla Firefox version 122 and later
- Google Chrome version 114 and later
- Microsoft Edge version 121 and later

#### Docker

The FlexNet License Server Manager is provided as a Docker image in the form of a .zip file. You must therefore install Docker to be able to run the License Server Manager.

The FlexNet License Server Manager runs on an Nginx web server. The Nginx web server is included in the FlexnetLicenseServerManager-<version>.zip package, therefore you do not need to install Nginx.



**Note -** Installing Docker is not covered in this section. For information about downloading and installing Docker, see the Get Docker topic in the Docker documentation.

You can verify if Docker is up and running using the following command:

docker -v

You will see output similar to the following:

```
root@Admin:~# docker -v
Docker version 20.10.7, build 20.10.7-0ubuntu5~20.04.2
```

### **Customizing the FlexNet License Server Manager**

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Note - This step is optional and only relevant to producers. License server administrators can skip this section.

This section describes the ways in which producers can customize the License Server Manager.

- Instead of the Revenera logo, FlexNet License Server Manager can show the logo of the producer organization. For the logo, the following file types are supported: JPG, JPEG, and PNG.
- The labels and icons of the navigation menu on the left side can be customized.

Producers edit the Docker container and create a new Docker image. They then distribute the Docker image to their customers who install the License Server Manager as described in the following section, Setting Up the FlexNet License Server Manager.

Task

#### To customize the FlexNet License Server Manager user interface

 Change to the directory where the image file is located and run the following command to load the image file:

docker load -i <Flexnet License Server Manager image .zip file>

You will see output similar to the following:

D:\Git\FLSM>docker load -i FlexnetLicenseServerManager-2024-03.zip	
7cd52847ad77: Loading layer [====================================	7.338MB/7.338MB
d8a5a02a8c2d: Loading layer [====================================	5.32MB/5.32MB
5e59460a18a3: Loading layer [====================================	3.584kB/3.584kB
152a948bab3b: Loading layer [====================================	4.608kB/4.608kB
c4d67a5827ca: Loading layer [====================================	3.584kB/3.584kB
<pre>flbee861c2ba: Loading layer [====================================</pre>	7.168kB/7.168kB
042cd3f87f43: Loading layer [====================================	29.85MB/29.85MB
<pre>dd9369c9bea6: Loading layer [====================================</pre>	4.096kB/4.096kB
<pre>bf8fe155c7b7: Loading layer [=====&gt;]</pre>	6.38MB/6.38MB
Loaded image: revenera/flsm:2024-03	

2. Use the following command to verify the image:

docker images

- . - . . . . . . . .

You will see output similar to the following:

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
revenera/flsm	2024-03	1c0383a444f7	5 hours ago	49.4MB
revenera/flsm	2023-09	c829323eea31	5 months ago	47.7MB

 Use a command like the following to run the FlexNet License Server Manager image and to set up the application environment:

docker run -p 8080:80 -e API\_PORT=8080 -t revenera/flsm:2024-03

The command above uses the following flags:

- -p: Assigns the port configuration. Adjust the port numbers as required for your application environment. The first port is the Docker host and the second port is the port used by the License Server Manager application. The port numbers must be identical.
- -e: Sets an environment variable in the container.
- -t: Creates a tag that refers to the source image. In the example above, the image name is revenera/ flsm and the tag value is 2024-03.

You will see output similar to the following (shortened for brevity):

```
2024/03/04 11:53:20 [notice] 1#1: using the "epoll" event method
2024/03/04 11:53:20 [notice] 1#1: nginx/1.25.4
2024/03/04 11:53:20 [notice] 1#1: built by gcc 12.2.1 20220924 (Alpine 12.2.1_git20220924-r10)
2024/03/04 11:53:20 [notice] 1#1: OS: Linux 5.10.102.1-microsoft-standard-WSL2
2024/03/04 11:53:20 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2024/03/04 11:53:20 [notice] 1#1: start worker processes
2024/03/04 11:53:20 [notice] 1#1: start worker process 19
2024/03/04 11:53:20 [notice] 1#1: start worker process 20
2024/03/04 11:53:20 [notice] 1#1: start worker process 21
2024/03/04 11:53:20 [notice] 1#1: start worker process 22
2024/03/04 11:53:20 [notice] 1#1: start worker process 22
2024/03/04 11:53:20 [notice] 1#1: start worker process 23
```

4. Open a separate command-line terminal and use the following command to locate the ID or name of the active License Server Manager container. (Alternatively, you can copy the ID from the Docker desktop application.)

docker ps

You will see output similar to the following (shortened for brevity):

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
8d2b9756 <del>f</del> 86a	revenera/flsm:2024-03	"/docker-entrypoint"	2 weeks ago	Up 7 minutes

5. You can now perform one or both of the following customizations:

#### • Add a custom logo:

Use the following command to copy the image file for your organization's logo to the specified path within the running License Server Manager container:

docker cp <path>\logo.jpg <container\_ID>:/usr/share/nginx/assets/logo.jpg

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**Important** • Valid names for the logo are **logo.jpg**, **logo.jpeg**, or **logo.png**. If the logo has a different file name or a different extension, Docker returns an error.

You will see output similar to the following:

Successfully copied 37.9kB to 8d2b9756f86a:/usr/share/nginx/assets/logo.jpg

#### • Customize the left navigation menu:

You can edit the labels and icons that appear in the left navigation menu. When you edit a label in the navigation bar, the corresponding heading will also be changed, as shown in the following example screenshot:

reventera.   FLEXNET LICE	NSE \$	SERVER MANAGER
License Manager Configuration	>	Offline Workflows← Editing a navigation label will also change the heading.
금: License Server Setup	>	
E Features		Download Capability/Confirmation Request for Offline Processing
Ramed License Pools		served using offline communications to the back office. If this is required, click <b>Download</b> to save a capability/confirmation request from this server into a local file for processing by a back-office server.
Devices		DOWNLOAD
Seservations		
Backend Operations	>	Offline Workflows quest
		Client Operations and Count to generate the offline request binary which can be used in the back office.
		Count
		DOWNLOAD

The labels and icons are specified in a file called data.json. Prepare a custom data.json file where you edit the labels and icons as required. Use the icons from Material UI (see <a href="https://mui.com/material-ui/material-icons">https://mui.com/material-ui/material-icons</a>). Copy the icon name without the suffix; for example, to use the icon PermDataSettingIcon, specify PermDataSetting.

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**Tip** - The Docker container contains a sampLeData.json (located under <container\_ID>:/usr/share/ nginx/assets/) which helps you prepare your custom data.json.

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Important - Only edit fields called either "label" or "icon". Editing any other fields will result in errors.

When you prepared your custom data.json file, use the following command to copy it to the specified path within the running License Server Manager container:

docker cp <path>\data.json <container\_ID>:/usr/share/nginx/assets/data.json

You will see output similar to the following:

Successfully copied 37.9kB to 8d2b9756f86a:/usr/share/nginx/assets/data.json

 Commit the changes made to the License Server Manager container to create a new Docker image with the updated logo:

docker commit <container\_ID> <image>:<tag>

where <container\_ID> is the ID output by the docker ps command (see Step 4), and <image>:<tag> is the name of the new Docker image and tag, for example:

docker commit 8d2b9756f86a revenera/flsm-custom:2024-03

You will see output similar to the following:

sha256:7272b5523871c7d4f61b91b358613f8d20dacc5dc352ff6790023bf0a13b4c26

7. Use the following command to verify the new image:

docker images

You will see output similar to the following:

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
revenera/flsm-custom	2024-03	20413816ea62	About a minute ago	49.5MB
revenera/flsm	2024-03	1c0383a444f7	5 hours ago	49.4MB
revenera/flsm	2023-09	c829323eea31	5 months ago	47.7MB

8. Optionally, use the following command to save the image as a zip file:

docker save -o <file\_name>.zip image\_name:<tag>

You can now distribute the customized Docker image or zip to your customers.

To install the customized License Server Manager, the license server administrator needs to perform the steps as described in the following section, Setting Up the FlexNet License Server Manager.

### **Setting Up the FlexNet License Server Manager**

This section guides you through the installation of the License Server Manager.

sk	То	install the FlexNet License Server Manager
	1.	Change to the directory where the image file is located and run the following command to load the image file:
		docker load -i <flexnet .zip="" file="" image="" license="" manager="" server=""></flexnet>
		You will see output similar to the following:
		D:\Git\FLSM>docker load -i FlexnetLicenseServerManager-2024-06.zip
		7cd52847ad77: Loading layer [====================================
		d8a5a02a8c2d: Loading layer [====================================
		5e59460a18a3: Loading layer [====================================
		152a948bab3b: Loading layer [====================================
		c4d67a5827ca: Loading layer [====================================
		f1bee861c2ba: Loading layer [====================================
		042cd3f87f43: Loading layer [====================================
		dd9369c9bea6: Loading layer [====================================
		bf8fe155c7b7: Loading layer [====================================
		Loaded image: revenera/flsm:2024-06
	2.	Use the following command to verify the image:
		docker images
		You will see output similar to the following:
		REPOSITORY TAG IMAGE ID CREATED SIZE
		revenera/flsm 2024-06 135f63352db8 9 days ago 47.4MB
		- (\$\sigma)-

3. Use the following command to start the FlexNet License Server Manager with the default nginx configuration file. Use the -p flag to assign the port configuration:

docker run -d -p 8080:80 revenera/flsm:<tag>

where <tag> is the TAG value that is displayed when you run the docker images command, for example:

docker run -d -p 8080:80 revenera/flsm:2024-06

4. To enable HTTPS mode for the License Server Manager, use a text editor to create a custom configuration file called default.conf. This will replace the existing default.conf file that is located inside the container under /etc/nginx/conf.d (see step 5). Create a default.conf file with the following text:

```
server {
   listen 1443 ssl http2;
   listen [::]:1443 ssl http2;
   server_name 127.0.0.1;
   ssl certificate /etc/nginx/conf.d/servercert.pem;
   ssl certificate key /etc/nginx/conf.d/serverkey.pem;
   #access log /var/log/nginx/host.access.log main;
       location /assets {
            root /usr/share/nginx;
            autoindex on;
       }
       location / {
            root /usr/share/nginx/html;
            index index.html index.htm;
            try_files $uri $uri/ /index.html;
       }
   }
```

5. Obtain or create the servercert.pem and serverkey.pem files.

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**Note** - Revenera recommends using a certificate from a standard certificate authority. You can convert the certificate that you receive from the certificate authority to .pem format using a third-party tool (for example, see the SSL Converter tool from SSLShopper).

If you choose not to purchase a certificate from an authority, you can obtain a free certificate from providers such as Cloudflare or Certbot.

6. Use the following command to copy the servercert.pem, serverkey.pem and default.conf to the container in which the License Server Manager is running:

```
docker run -it -v /<path>/default.conf:/etc/nginx/conf.d/default.conf -v /<path>/
serverkey.pem:/etc/nginx/conf.d/serverkey.pem -v /<path>/servercert.pem:/etc/nginx/conf.d/
servercert.pem -p 1443:1443 revenera/flsm:<tag>
```

This command also starts the License Server Manager container on port 1443.

 Point a web browser to http://localhost:8080 (where 8080 is replaced by the correct port, if necessary) or https://localhost:1443.

By default, the License Server Manager opens to the **About** view. However, if administrative security is enabled on the license server and you have not provided your authorization credentials, the **Login** view is opened instead so that you can enter these credentials before proceeding with the next steps. (See Providing Credentials on a Secured License Server for details.)

- 8. On the left side of the interface, click License Manager Configuration > Settings.
- 9. On the Settings view, check that the following settings are defined correctly:
  - FlexNet License Server Host Name—The hostname of the machine on which the license server is running.
  - FlexNet License Server Port—The port on which the License Server Manager will look for the license server. (The default port is 7070.)

To stop the License Server Manager, close the web page and stop the container in Docker.



**Note** - The License Server Manager runs in a container, therefore you cannot use the host name "localhost" for the local license server. For the License Server Manager to connect to a local license server that is running in https mode, License Server Manager must also run in https mode.

### **Starting the FlexNet License Server Manager**

This section describes how to start the License Server Manager.

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-	-	-	
-	-	-	

**Note -** Installing Docker is not covered in this section. For information about downloading and installing Docker, see the Get Docker topic in the Docker documentation.

### Task

#### To start the FlexNet License Server Manager

- 1. Start Docker Desktop.
- 2. In Docker Desktop, click the Start button for the revenera/flsm: <version> image.
- 3. Point a web browser to http://localhost:8080 (where 8080 is replaced by the correct port, if necessary).

The web browser displays the **About** page of the License Server Manager.

### **Updating the FlexNet License Server Manager**

This section describes how to update the License Server Manager when a new version becomes available.



**Important** - To avoid potential caching issues, Revenera recommend that you clear your browser cache or perform a hard reload. For more information, refer to your browser's documentation.

#### To update the FlexNet License Server Manager

- 1. Perform the steps described in section Starting the FlexNet License Server Manager to start the License Server Manager.
- 2. Open a command prompt and run the following command to verify the current image version:

docker image ls

Task

You will see output similar to the following:

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
revenera/flsm	2023-06	135f63352db8	3 months ago	47.4MB

3. Use the following command to show all running containers:

docker ps

You will see output similar to the following (shortened for brevity):

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
1b8df6ec4636	revenera/flsm:2023-06	"/docker-entrypoint"	2 months ago	Up 9 seconds	0.0.0

4. Use the following command to stop the running FLSM container:

docker stop <containerID>

5. Use the following command to remove the old FLSM container:

docker rm <containerID>

6. Optionally, remove the old image file using the following command:

docker rmi <imageID>

You will see output similar to the following:

```
Untagged: revenera/flsm:2023-06

Deleted: sha256:e49c49ae2059d2a731cbd42fb88b53d852eeb03c11452e784310394f0a411ad7

Deleted: sha256:a13e3fadbe610a1255b0c0458e2ebd0866c604997054fbcfa24792aa434999a2

Deleted: sha256:9d3dbc2800ab74b817eae5f55c049e52b88d4881f06d537a48ebe72599d80a85

Deleted: sha256:070f136fdcee1cb6669f5057d296e1bc1fcfe87ead5c4dac8ca4c7c6dabcda2c

Deleted: sha256:84858bd9f6789f7b03241900b71d132450622291d45d516d85c2f0d87f3299a

Deleted: sha256:48e01136a4fe25c5cdcc1aa6c5c4bdedfbecc1725ff53972e7327c36c4323c8e

Deleted: sha256:34325996f3c88e4aa749af90c2ae68985ff3ba7e530b07a54f73c6dbfaad2f39

Deleted: sha256:063d62e474734c802a5b3443a8ee8b365cc914771c6ce98f94a8ce003dce96d8

Deleted: sha256:6044cb9ca9f9c6b001c626536bba1d45e96dcd9bff5b35232201c52010047cdf

Deleted: sha256:7e6c041bf6dfaff2f3084f510f9ce4803c5c6916554533816c0b774f48bd563f

Deleted: sha256:f1417ff83b319fbdae6dd9cd6d8c9c88002dcd75ecf6ec201c8c6894681cf2b5
```

This concludes the steps for removing the old version of the License Server Manager.

7. Perform the steps described in section Setting Up the FlexNet License Server Manager to install the new version of the License Server Manager.

### License Server Manager Information and Settings

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Important • You must first fill out all fields on the License Manage Configuration > Settings page before you can access any other License Server Manager pages.

The top menu item is the **License Manage Configuration** group, which contains the **Settings** and **About** views. The **About** view (not pictured) displays build, system, and browser information. In the **Settings** view, you set the server type (local license server or CLS instance), specify the port number/CLS instance ID and host name (network name or IP address) for the license server, as well as the number of records to show on a page. These configuration settings appear in a separate list because they can be modified even if the license server is inaccessible, unlike the license server policy settings and configuration properties.

The default port for the local license server is 7070.

### Settings

Specify configuration settings	for the license server. These settings	can be modified even when the license server is
inaccessible.		
Page Size 0		
50	\$	
FlexNet License Server Host Na	ime 🕕	
flex1234.compliance.flexnetoperati	ons.com	
Cloud License Server Instance		
Connect Using HTTPS 🕕		
Yes		
∩ No		
0		
0		
		SAVE

Figure 1: Settings view for License Server Manager

The properties available in this view include:

• Page size—The number of records to display per page

• FlexNet License Server Host Name—For a local license server, enter the hostname of the machine the license server is running on. For a CLS instance, enter the base URL in the following format:

siteID.compliance.flexnetoperations.com

Example:

flex1234.compliance.flexnetoperations.com

Ask your producer to provide the site ID.

- Local License Server | Cloud License Server—The type of server that is being monitored. Depending on your selection here, fill out the following required field:
  - FlexNet License Server Listen Port—The port number for the license server. (The default port for the server is 7070.)
  - Cloud License Server Instance ID—The instance ID that uniquely identifies this CLS instance.
- Connect Using HTTPS—The option indicating which protocol—HTTP or HTTPS—must be used for FlexNet License Server Manager communications with the license server:
  - Yes—Use HTTPS communications.

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Note - (Communication to a Cloud License Server will always be over HTTPS.)

• No—Use HTTP communications.

# **Providing Credentials on a Secured License Server**

When administrative security is enabled on your license server, anyone attempting to administer the license server will need to provide a set of authorization credentials before starting administrative operations. When you provide your credentials as a license server administrator, you will have administrative privileges on the license server. Additionally, other enterprise users can have credentials to perform limited administrative privileges. Refer to Managing Administrative Security on a Local License Server or CLS Instance in the FlexNet Embedded License Server Administration Guide for details.

To enter authorization credentials, navigate to **License Server Setup** > **Login**. Enter the user name for your account in the **User Name** field, enter your password in the **Password** field, and click **Login**.

revenera.   FLEXNET LICENSE SERVER MANAGER								
හි License Manager Configuration	> Login							
<u> </u>								
E Features	Provide authorization credentials to access the License Server Information.							
Ramed License Pools	User Name * admin							
🖵 Device								
Seservations	Password *							
器 Back Office Operations								
	CLEAR LOGIN							

Figure 2: Login view to enter authorization credentials

Once the credentials have been verified, you can use the License Server Manager to perform the administrative operations for which you are authorized.

If you attempt to perform an operation in the License Server Manager that requires authorization, but you have not provided credentials or are not authorized to perform the operation, you receive an "access denied" message.

### **License Server Properties View**

The **License Server Properties** view (available by selecting **Properties** from the **License Server Setup** menu) displays the current policy settings used by the FlexNet Embedded local license server. Settings can be overridden in this view, with the exception of settings that could present a security vulnerability if editable by anyone but the producer—such as response lifetime, failover maintenance interval, or enablement of synchronization to the back office.

Any changes made in this view take effect when you click **Save** at the bottom of the page.

Refer to the Reference: License Server Policy Settings to determine which policy settings you are allowed to update, the internal name for each setting, and its description.

#### **License Server Properties**

This page displays the current policy settings used by the FlexNet Embedded local license server. Any changes made in	n this view take effect when you click <b>Save</b> .
> General Property	
> Secure REST API settings	
> Server Sync Settings	
> License Generation	
> Settings for Server-to-Server Sync Between FlexNet Embedded Servers	
> Capability Polling Settings	
> Locally Deployed License Servers Settings	
> Logging Properties	
	CANCEL

#### Figure 3: License Server Properties view

The properties exposed on this page include:

- General Properties: The license server hostid, license server version, device UUID, and status. The license server's hostid value is used to fulfill capability requests against a back-office server. If the server has multiple hostid values, the list contains the available hardware Ethernet addresses and dongle IDs. If virtual hosts are supported, the VM UUID will also be listed. Select the value registered with your backoffice system.
- Secure REST API Settings: Settings that control administrative security on the license server.
- Server Sync Settings: Properties for synchronizing to the back office.
- License Generation: Polices that help manage served features.
- Settings for Server-to-Server Sync Between FlexNet Embedded Servers: Policies for failover synchronization.
- **Capability Polling Settings:** Settings that control whether and how often the license server contacts the back office for license updates and how often the server should retry communications after a failed attempt.
- Locally Deployed License Server Settings: Settings specific to your license server and environment.
- Logging Properties: Log locations and the lowest level of granularity for log messages captured in the log.

The license server's producer settings are stored in the producer-settings.xml file. These settings are described in Reference: License Server Policy Settings.

### Page Navigation for Views in the License Server Manager

The Features View, Named License Pools View, Devices View, and Reservations View provide a navigation tool that enables you to move easily between pages in the view to locate records you want to see. Note that the number of records per page is determined by the **Page Size** setting (under **License Manager Configuration** > **Settings**).

The navigation tool shows the total number of records available and enables you to select a specific page to which to navigate:

Total number of records: 100         <	
--	--

Figure 4: Page navigation tool

### **Features View**

### **Summary Tab**

In the Features view, the Summary tab displays all the features installed on the license server.

Factors         Factors         Factors         Factors         Total Count         Total Used         Total Available         First Expiration         Total Overfart         Metered         Count           Back Office Operations         Fasting-1         1.0         1.00         1.00         0.00         permanent         permanent         0.00         permanent         0.00         1.00         1.00         1.00         permanent         0.00         1.00         permanent         0.00         1.00         1.00         permanent         0.00         1.00 </th <th>License Manager Configuration</th> <th>Features</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	License Manager Configuration	Features									
Features         Features         Features         Total Count         Total Used         Total Used         First Expiration         Last Expiration         Total Overdraft         Metered         Count           Back Office Operations         feating 2         1.0         1000         1000         0         permanent         permanent         0.000         0         permanent         0.000         true           feating 2         1.0         1000         1000         0         permanent         permanent         0.000         true           feating 3         1.0         1000         1000         0         permanent         permanent         0.000         true           feating 4         1.0         1000         1000         0         permanent         permanent         0.000         true           feating 4         1.0         1000         1000         0         permanent         permanent         0.000         true	License Server Setup	×									
Perform     Version     Total Count     Total Version     Total Version     First Expiration     Last Expiration     Total Oversith     Metered     Count       Reservations     feating-1     1.0     1.00     1.000     0.000     0.000     permanent     permanent     0.000     0.000     true       Reservations     feating-1     1.00     1.000     1.000     0.000     permanent     permanent     0.000     0.000     true       feating-1     1.00     1.000     1.000     0.000     permanent     permanent     0.000     0.000     true       feating-1     1.000     1.000     1.000     0.000     permanent     permanent     0.000     0.000     true       feating-1     1.000     1.000     0.000     0.000     permanent     permanent     0.000     true       feating-1     1.000     1.000     0.000     0.000     permanent     permanent     0.000     true       feating-1     1.000     1.000     0.000     0.000     permanent     permanent     0.000     true       feating-1     1.000     1.000     0.000     permanent     permanent     0.000     true       feating-1     1.000     1.000     0.000<	) Features	Summary Det	ails								
Preservations         Fgatting-1         1.0         1000         1000         0         permanent         0         ftue           fgatting-2         1.0         1000         1000         0         permanent         0         true           fgatting-3         1.0         1000         1000         0         permanent         0         true           fgatting-3         1.0         1000         1000         0         permanent         0         true           fgatting-3         1.0         1000         1000         0         permanent         0         true	3 Named License Pools										
Ack Office Operations         Figating-2         1.0         1000         1000         0         permanent         permanent         0         true           Figating-3         1.0         1000         1000         0         permanent         0         true           Figating-3         1.0         1000         1000         0         permanent         0         true           Figating-4         1.0         1000         1000         0         permanent         0         true	] Devices	Feature	Version	Total Count	Total Used	Total Available	First Expiration	Last Expiration	Total Overdraft	Metered	Counted
Feating-3         1.0         1000         0         permanent         permanent         0         true           Feating-4         1.0         1000         1000         0         permanent         0         true	Reservations	f-gatling-1	1.0	1000	1000	0	permanent	permanent	0		true
Fgating-4 1.0 2000 1000 0 permanent 0 true	Back Office Operations	> f-gatling-2	1.0	1000	1000	0	permanent	permanent	D		true
		f-gatling-3	1.0	1000	1000	0	permanent	permanent	D		true
		f-gatling-4	1.0	1000	1000	0	permanent	permanent	0		true
r-gatung-5 1.0 1000 0 permanent permanent 0 true		f-gatling-5	1.0	1000	1000	0	permanent	permanent	0		true

Figure 5: Features view, Summary tab

#### **Details Tab**

Switch to the **Details** tab to see further information about each feature.

License Manager Configuration	Features										
License Server Setup											
Features	Summary	Details									
Named License Pools									Sea	rch Search By	
Devices	Click a Feature	name for mor	e detailed in	nformation.						Q Feature v	CLEAR
Reservations	Feature	Version	Count	Available	Expiry	Start Date	Vendor String	Product Name	Activation Id	Entitlement Id	Product Versie
Back Office Operations	f-gatling-3	1.0	1000	0	permanent	2024-11-06		Product_7_Features	116b-1f23-e65d-4087-98bb-fa76-d23d-e026	b721-6bbc-d73a-4a96-809e-4794-cc6a-0fa4	1.0
	f-gatling-4	1.0	1000	0	permanent	2024-11-06		Product_7_Features	116b-1f23-e65d-4087-98bb-fa76-d23d-e026	b721-6bbc-d73a-4a96-809e-4794-cc6a-0fa4	1.0
	f-gatling-2	1.0	1000	0	permanent	2024-11-06		Product_7_Features	116b-1f23-e65d-4087-98bb-fa76-d23d-e026	b721-6bbc-d73a-4a96-809e-4794-cc6a-0fa4	1.0
	f-gatling-5	1.0	1000	0	permanent	2024-11-06		Product_7_Features	116b-1f23-e65d-4087-98bb-fa76-d23d-e026	b721-6bbc-d73a-4a96-809e-4794-cc6a-0fa4	1.0
	f-gatling-1	1.0	1000	0	permanent	2024-11-06		Product_7_Features	116b-1f23-e65d-4087-98bb-fa76-d23d-e026	b721-6bbc-d73a-4a96-809e-4794-cc6a-0fa4	1.0
	Total Number	of Records: 5									

Figure 6: Features view, Details tab

The following functionality helps you find specific features and focus on information that is important to you:

- **Page navigation**—If the list of features is extensive, you can use the navigation tool at the bottom of the page to locate records, as described in Page Navigation for Views in the License Server Manager.
- Show/hide columns—Click the View Columns button UU to see a list of columns available for the page. Select the columns that should be shown in the table.
  - **Note -** The columns **Product Name**, **Product Version**, **Activation Id** and **Entitlement ID** display product information for features on a local license server only if the local license server is running release 2024.10 or later.
- **Search**—You can also search for a specific feature by entering its name in the **Search** field and then clicking the "magnifying glass" icon. (Provide the exact and complete feature name for the search string.)

Search		Search By			
	Q	Feature	~	CLEAR	
L					

Figure 7: Search tool for features

#### **Feature Details Page**

When you click a feature name, the **Feature Details** page is displayed, containing detailed information about the feature, including the feature start date, the total count allocated to the server, the count currently being used, the number of reserved licenses within the used count, and any feature selectors and vendor string information defined for the feature.

This page also shows a **Served Info** section, listing the client devices that currently have the feature's counts checked out.

Feature D	Feature Details: VR_MODE									
Foature Name:	Feature Name: VR_MODE BACK TO LIST									
Version: 1.0										
Start Date: 2023-03-10										
Total Count: 10										
Available: 8										
Used Count: 2										
Reserved Count	Reserved Count: 10									
Vendor String:	ndia:Bangalore,group:	Eng,group:Sup								
Feature Expiry:	2025-03-31									
Served Device	2									
Device ID	Device ID Type	Device Type	Device Alias	Total Count Served	Expiry					
Controller1	STRING	UNKNOWN		0	2023-06-12					
Controller0	STRING	UNKNOWN		0	2023-06-12					
Controller2	STRING	UNKNOWN		2	2023-06-12					

Figure 8: Feature Details page

### **Named License Pools View**

### **About Named License Pools**



**Important** • You can use either reservations or named license pools for license allocation. Reservations and named license pools cannot coexist alongside each other.



**Note** - In previous releases of the FlexNet Embedded license server, named license pools used to be referred to as "partitions".

In a generic setup, each license server has a license pool which contains all the licenses available to its client devices. The license server distributes licenses from this license pool on a first-come-first-served basis to client devices requesting them. This license pool is also referred to as the *default license pool*.

However, in addition to the server's default license pool you can create *named license pools*, which divide your license estate into groups of licenses. By defining rules of access, you can allocate licenses to a group of client devices or users to help ensure that these entities have access to the features they need.

Thus, a license server serves licenses from its default license pool and any named license pools that you create. Each named license pool contains license counts for one or more features, which can be allocated to client devices or users. It is important to note that in a named license pool, licenses are not assigned to individual client devices or users. Instead, counts allocated to a named license pool can be accessed by a number of devices or users that meet certain criteria, such as, for example, be member of a particular business unit or have a certain hostid. Allocated license counts can be checked out by any device or user that fulfills the specified criteria.

As the license server administrator, you can choose to allocate the entire pool of licenses, a portion of the licenses, or none of the licenses. Any license that is not allocated to a named license pool remains in the default license pool and is available to any device on a first-come-first-served basis.

### **The Named License Pools Tab**

The **Named License Pools** tab in the **Named License Pools** view displays the list of named license pools that have been defined on the license server as well as the default license pool.

re	venera.   FLEXNET LICENSE	E SEI	RVER MANAGER	?~
ø	License Manager Configuration >	N	lamed License Pools	
₽	License Server Setup			
Ē	Features	-	Named License Pools Model	
88	Named License Pools		Click a named license pool name for further details.	
Ð	Devices		> ID: 45 / Name: Pune	
\$	Reservations			
Ş	Back Office Operations		> ID: 32 / Name: Brussels	
ۍ ع	Dack Office Operations /		> ID: 81 / Name: New York	
			> ID: 10 / Name: Bangalore	
			> ID: 76 / Name: Chicago	
			> ID: 83 / Name: San Jose	
			> ID: 91 / Name: Dublin	
			> ID: 98 / Name: default	

Figure 9: Named License Pools view

When you click a license pool name, the view expands to show details about the features that are currently included in the license pool.

med License Pools									
Named License Pools Model									
Click a named license pool name for further details.									
Feature Name	Version	Expiration Date	Allocated	Used	Status				
Feature Name	Version	Expiration Date	Allocated	Used	<b>Status</b> Normal				
		•							
3D Rendering	3.2	2022-11-01	100	75	Normal				

Figure 10: Details of named license pool

### **The Model Tab**

The **Model** tab displays the model definition that is currently active on the license server. The model definition specifies the license pools and the rules of access that define how licenses are allocated to license pools (named or default).

model definition con	isists of named license pools (partitions) and rules of access.
rowse for your mode	l definition file and then click Upload.
Indel Definition File	
No file chosen	BROWSE
NO THE CHOSEN	DROWSE OPLOAD
urrent Model Definition	File
	.ons {
	<pre>partition "0800 - PUNE" {     "eb-feature-android-eval" 2.0 3 // P1 license count = 3 }</pre>
	<pre>partition "0800 - PUNE" {     "eb-feature-android-eval" 2.0 3 // P1 license count = 3 } partition "0800 - PUNE" {     "eb-feature-android-eval" 2.0 2 // P1 license count = 2 }</pre>
	<pre>partition "0800 - PUNE" {</pre>
	<pre>partition "0800 - PUNE" {     "eb-feature-android-eval" 2.0 3 // P1 license count = 3 } partition "0800 - PUNE" {     "eb-feature-android-eval" 2.0 2 // P1 license count = 2 } partition "2200 - NECKARSULM" {</pre>

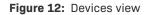
Figure 11: Model tab in the Named License Pools view

To change the model definition, browse for the model definition that you want to use by clicking **Browse** and then click **Upload**.

### **Devices View**

The **Devices** view displays the client devices recognized by the license server as having been served licenses from the server's shared pool or from licenses reserved for the client. Each client is identified by its device ID, the ID type, and the device type—physical, virtual, or unknown. In addition, a device alias might be displayed if this has been set on the device. (A device alias is also sometimes referred to as a device name or host name. It is a human-readable alias—in contrast to the hostid—which can optionally be included in a capability request.)

revenera.   FLEXNET LICENSE SERVER MANAGER											
భ్రు License Manager Configuration >	License Manager Configuration > Devices										
글는 License Server Setup >	> The following is a list of devices with features consumed. Click a <b>Device ID</b> for further details.										
E Features											
음암 Named License Pools	Device ID	Device ID Type	Device Type	Device Alias							
🖵 Devices	Controller0	STRING	PHYSICAL								
	🖵 Controller1	STRING	PHYSICAL								
器 Back Office Operations     >	☐ Controller2	STRING	PHYSICAL								
i de la companya de l Transforma de la companya de la comp	☐ Controller3	STRING	PHYSICAL								
	Controller4	STRING	PHYSICAL								
	☐ Controller6	STRING									
	Total number of records: 7		X	1 2 3 4 5 … 56 >							



If the list of devices is extensive, you can use the navigation tool to locate records, as described in Page Navigation for Views in the License Server Manager.

When you click the device ID for a specific client, the **Device Details** view opens, showing details about the client device and the list of features currently served to the client. (Click **Back** to exit the **Device Details** page.)

Device Details: 1234567890									
Device ID:	1234567890						BACK TO LIST		
Device ID Type:	STRING						BACK TO EIST		
Device Type:	PHYSICAL								
Device Alias:	Device25								
Device Expiry:	2022-11-16T19:12:35.77	42							
Consumed Fe	Consumed Features Feature Name Version Used Expiry Start Date Vendor String								
2DLine		1.0	1	Permanent	2022-11-08	hijjnjok			
AdvancedFilter		1.3	4	Permanent	2024-02-25	jklaadtwd			
Reporting		4.1	3	Permanent	2024-02-25	addgqegg			

#### Figure 13: Device Details page

Note that the **Device Expiry** field in the **Device Details** section shows the timestamp when all currently checkedout features will expire on the device. This timestamp is determined either by the borrow expiration for the checked-out concurrent features or the final expiration date (as defined in the back office) for checked-out metered features. The **Expiry** field for a feature in the **Consumed Features** list shows its final expiration date as defined in the back office.

### **Reservations View**

### **About Reservations**

A factor that can affect the feature set included in the license server's responses is the use of *reservations*. A reservation is an optional mapping of a client device or user to a feature name, version, and count, which represents licenses to be reserved for that specific client devices or users in the enterprise. When a particular client sends the license server a capability request with no desired features, the license server response contains all features reserved for that client (and user, if the user has reservations). When a capability request contains desired features, the license server grants the client device these features based on reserved counts and available shared counts.

The reservations saved to the license server are ordered in a hierarchy, enabling more granularity in the managing them. For example, *reservation entries* are the actual feature reservations that you define for a *reservation*, which specifies the hostid for the specific client device or user to which the feature reservations apply. One or more reservations are assigned to a *reservation group*, which represents a more global entity to which the client devices and users identified by the reservations belong.

For more information about the reservation format and how the license server processes reservations, see License Reservations in the More About License Server Functionality FlexNet Embedded License Server Administration Guidechapter.



*Important -* You can use either reservations or named license pools. Reservations and named license pools cannot coexist alongside each other. For more information, see Named License Pools vs. Reservations in the FlexNet Embedded License Server Administration Guide. For general information about named license pools, see Allocating Licenses Using Named License Pools in the FlexNet Embedded License Server Administration Guide.

### **The Reservations View**

The **Reservations** view enables you to view existing reservations, add reservations to a new reservation group, delete a reservation group, as well as import and export reservation definitions in a JSON format.

revenera   Flexnet License server manager 📀 🗸					
Optimize Configuration >	License Manager Configuration				
E Features	View or modify current device registrations.				
Ramed License Pools	Status Device ID ID Type Reservation Group	Feature Name Version Count			
🖵 Devices	Controller1 PHYSICAL Group 45	3D Rendering 3.1 131			
Seservations	Controller21 PHYSICAL Group 98	Export to CSV 4.8 32			
Back Office Operations	Device18 PHYSICAL Marketing Group	Rotation 6.1.3 65			
	Unit42     PHYSICAL     Engineering Group	Animation 2022.01 198			
	Controller89 PHYSICAL Group 43	2D Wireframes 14.6 13			
	Unit98 PHYSICAL Sales Group	VR Mode 19.8 45			
	Total number of records: 7	1 2 3 4 5 ··· 56 >			

#### Figure 14: Reservations view

The **Reservations** view displays the contents of the currently defined reservations. The notation in the **Status** column indicates whether enough licenses exist on the license server to satisfy the reservation. The green circle indicates that a reservation can be satisfied, and the red circle with an exclamation point indicates a reservation that cannot be satisfied.

If the list of reservations is extensive, you can use the navigation tool to locate records, as described in Page Navigation for Views in the License Server Manager.

Clicking **Add** displays the **Add Reservation** page, where you add a single reservation entry to a new reservation group. You can add multiple reservation entries to the same group by using the same group name for each entry you create. You can also create multiple groups.



*Important* - If you were previously using partitions, you must delete the active model definition before you can manage reservations. See Delete the Model Definition in the FlexNet Embedded License Server Administration Guide

Also note that, in the **Device ID** field, you can specify either a client device hostid to define a device-based reservation or a user hostid to define a user-based reservation. Be sure specify the correct hostid type in the **ID Type** field.



**Note** - Currently the License Server Manager only adds reservations to a new reservation group. If you want to add or delete reservations in an existing group, you must delete that group and then re-create it using the **Add Reservation** page or the **Import** function to import a JSON file with the re-created group and its reservations.

dd Reservation	
Specify settings for the new reservation.	
Group Name	
group1	
Device ID	
client3	
ID Type	
String ~	
Feature Name	
f2	
Version	
2.0	
Count	
	CANCEL

#### Figure 15: Add Reservation page

In a reservation entry, the version of the feature to be reserved must be a valid FlexNet Embedded version in numeric *a.b* format, and the reserved count must be a valid positive numeric value.

Note that the version of a feature reservation need not exactly match an actual feature's version: the reservation will succeed if the feature version is greater than or equal to the reserved version. For example, a reservation for version 1.0 of a feature can be satisfied by version 2.0 of that feature, but not the other way around. (Reservation versions follow normal feature-version syntax rules.)

Click **Add** to add the reservation entry to the pending reservation group, or click **Clear** to reset the current entry value without saving. Reservation entries are saved in a **Reservations (Pending Submission)** table below the edit fields. Click **Submit** to finalize the reservation list, or click **Cancel** to exit.

Clicking Delete in the Reservations view enables you to delete an existing reservation group.

ew or modify	current device registrati	ions.			DELE	TE ADI
Status	Device ID	ID Type	Reservation Group	Feature Name	Version	Count
<b>X</b>	Controller1	PHYSICAL	Group 45	3D Rendering	3.1	131
	Controller21	PHYSICAL	Group 98	Export to CSV	4.8	32
	Device18	PHYSICAL	Marketing Group	Rotation	6.1.3	65
	Unit42	PHYSICAL	Engineering Group	Animation	2022.01	198
	Controller89	PHYSICAL	Group 43	2D Wireframes	14.6	13
	Unit98	PHYSICAL	Sales Group	VR Mode	19.8	45

#### Figure 16: Deleting reservation groups

To delete a reservation group, select the check box to the left of the group, and click **Delete** to add it to the list of pending deletions. After you have selected the groups, click **Submit** to delete them from the license server.

You can also click **Import** to import a JSON file containing new groups and their reservation entries, or click **Export** to save the current reservations in a JSON file format.

### **Online Server Updates View**

The **Online Server Updates** view (available from the **Back Office Operations** menu) enables you to activate entitlements online and to trigger an immediate sync with the back office (FlexNet Operations).

#### **Online Activations**

On the **Online Activations** tab, you can activate the product licenses that you received with your welcome email. If you received multiple activation IDs, you can activate them in a single request. Enter your activation ID or IDs (click the **+** button to add a new field to the page) and their count, then click **Activate**.

To delete a line, click the  $\Box$  button.

After submitting a request, FlexNet License Server Manager displays the activation status for the request. If activation fails (for example, due to an invalid activation ID, insufficient entitlements or connectivity issues), FlexNet License Server Manager displays a meaningful error message. Otherwise, it shows that the request was successful and that entitlements have been activated.

The following screenshot shows an example of the Online Activations tab:

revenera   Flexnet License Server Manager				
翰 License Manager Configuration > 注 License Server Setup >	Online Server Updates			
E Features	Online Activations Update Licenses			
Ramed License Pools	Activation Id	Count		
🖵 Devices				
Reservations	8b27-0e20-7e4e-4221-8184-ed3d-de4e	200	$\odot$	
器 Back Office Operations     >	a0ce-f45d-b5ee-4abe-aaaa-c8c7-eae7	150	ō	
	f3ab-1eac-e650-4488-bb6f-8c2f-1d5b-	500	ō	
		RESET	ACTIVATE	

Figure 17: Example of the Online Activations tab

### **Update Licenses**

On the **Update Licenses** tab, click the **Refresh** button to trigger a synchronization with the back office (FlexNet Operations). This forces the license server to retrieve any pending license updates from the back office.

٢e	revenera.   FLEXNET LICENSE SERVER MANAGER			
\$ \$		Online Server Updates		
20	License Server Setup >			
Ð	Features	Online Activations Update Licenses		
晗	Named License Pools	If this license server is connected to the Internet, you can click the <b>Refresh</b> button to automatically update the pool of		
Ţ	Devices	licenses being served. This sends license updates to FlexNet Operations and, upon success, this server will be updated with the latest license(s).		
\$	Reservations	REFRESH		
옯	Back Office Operations			

Figure 18: The Update Licenses tab

### **Offline Server Updates View**

The **Offline Server Updates** view (available from the **Back Office Operations** menu) enables you to update the served license pool using offline operations instead of direct communication to a back-office server. In the upper half of the view, you can do either:

- Save a capability request into a local binary file by clicking **Download** in the **Download Capability/ Confirmation Request...** section. This request is used to poll for any license updates for the license server.
- Enter an activation ID and count in the **Generate Offline Request** section. When you click **Download**, the activation request is saved as a binary file. This request is used to obtain license rights for the license server through a specific activation ID that the software producer has provided you.

Once the request is downloaded as a binary file, you then communicate the binary request to the back-office server through an offline means.

When you have received a binary response file from the back office, browse for the file by clicking **Choose File** in the lower half of the view and then click **Upload**. The license server then processes the response, which updates the contents of the server's trusted storage.

revenera.   Flexnet License Server Manager			
鎊 License Manager Configuration >	Offline Server Updates Download Capability/Confirmation Request for Offline Processing If this license server is not connected to the Internet, you can manually update the pool of licenses being served using offline communications to the back office. If this is required, click Download to save a capability/confirmation request from this server into a local file for processing by a back-office server. DOWNLOAD		
뮵 Back Office Operations >	Generate Offline Request Specify the Activation ID and Count to generate the offline request binary which can be used in the back office. Activation ID Count DOWNLOAD		
	Upload Response File Browse for the offline response file you received from the back-office server, and then click Upload to process the response. Upload Response File (.bin) Upload Response .Bin File CHOOSE FILE CANCEL UPLOAD		

Figure 19: Offline Server Updates view for performing offline capability exchanges with the back office

### **Client Key Operations View**

The **Client Key Operations** view (available from the **Back Office Operations** menu) provides a means of uploading a file containing a client-side RSA public key (2048-bit DER-encoded) in octet-stream format to the license server. The producer will provide details about obtaining and uploading this key should such a key be required. License-server administrator credentials are required to use this option.

To upload the file, click Choose File to browse for and select the appropriate file, and then click Upload.

Client Key Operations			
Browse for the client public key (204	8-bit DER RSA) file, an	d then click <b>Upload</b>	to post the file contents.
Upload Client Public Key File			
No file Chosen	CHOOSE FILE		
	_		
		CANCEL	UPLOAD

Figure 20: Client Key Operations view for uploading a public key from the client

### **Product Support Resources**

The following resources are available to assist you:

- Revenera Product Documentation
- Revenera Community
- Revenera Learning Center
- Revenera Support

#### **Revenera Product Documentation**

You can find documentation for all Revenera products on the Revenera Product Documentation site:

https://docs.revenera.com

#### **Revenera Community**

On the Revenera Community site, you can quickly find answers to your questions by searching content from other customers, product experts, and thought leaders. You can also post questions on discussion forums for experts to answer. For each of Revenera's product solutions, you can access forums, blog posts, and knowledge base articles.

https://community.revenera.com

### **Revenera Learning Center**

The Revenera Learning Center offers free, self-guided, online videos to help you quickly get the most out of your Revenera products. You can find a complete list of these training videos in the Learning Center.

https://learning.revenera.com

### **Revenera Support**

For customers who have purchased a maintenance contract for their product(s), you can submit a support case or check the status of an existing case by first logging into the Revenera Community, clicking **Support** on the navigation menu to open the **Support Hub** page, and then clicking the **Open New Case** or **Case Portal** button.

### **Contact Us**

Revenera is headquartered in Itasca, Illinois, and has offices worldwide. To contact us or to learn more about our products, visit our website at:

#### http://www.revenera.com

You can also follow us on social media:

- Twitter
- Facebook
- LinkedIn
- YouTube
- Instagram

FlexNet License Server Manager Guide Contact Us