FLOATING LICENSE

version 17.0.1

user guide

No Magic, Inc.
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FLOATING LICENSE

Floating license is now supported by the FlexNet license server. MagicDraw Floating License Server is not used any more starting with MagicDraw version 16.8.

All detailed instructions about managing and configuring the FlexNet license server you may find in License Administration Guide that is available at http://www.globes.com/support/fnp_utilities_download.htm. You can find more information for FlexNet license server managers (lmadmin and lmgrd) as well as information about utilities, and documentation for administrators and end users on that page.

**NOTE**
The FlexNet license server is compatible with v16.8 (and later) client applications. In order to use v16.6 and v16.8 floating licenses simultaneously, both No Magic Floating Server and the FlexNet license server installations are needed.

Concepts

**What is Floating License?**

FL (Floating License) allows you to install and use the same license (i.e. MagicDraw Standard, Professional, Enterprise Edition, or Plugins) on multiple machines. Suppose you have 10 workstations where MagicDraw is used. In most cases there are less than 10 users concurrently using MagicDraw. Instead of purchasing 10 Professional (or Standard) seat licenses, only purchase the number of Floating Licenses to support the number of concurrent users. Floating License(s) are usually more economical in development centers than purchasing individual seat licenses.

**How does license server works?**

Whenever you obtain Floating License you may install MagicDraw client application (Standard - Enterprise) on as many workstations as you need. The license server software (which is free and is provided together with FL clients) needs to be installed on some computer (which is referred to as a license server). Normally, only one license server is required in your network.

The license server is provided with the key, which specifies how many and what types of Floating Licenses this server may serve. The same server may serve different numbers of different Editions and plugins licenses, e.g. 2 Standard and 3 Professional FL licenses. In this case, during the connection, you will be asked to select the edition you want to run - Standard, Enterprise, or Professional.

Note: To serve No Magic products licenses, the license server requires the cameo vendor daemon provided by No Magic Inc. The vendor daemon is responsible for communicating with the No Magic products and issuing licenses.

**How does a client application obtain the floating license?**

In order to work with the FL client, you will need to specify the address of the license server and port (1101 by default) and connect to it. Every time FL client connects to the license server it checked out a license from that server and the number of available licenses on this server is decreased. If all available licenses from the server are leased, the next client who wants to obtain a license must wait until one of the other client's finishes its work and the license is returned back to the license server.
What if the connection with the license server is lost?

Whenever FL client leases the license from the license server, it constantly updates the server with the message that it is still alive. The license server in turn acknowledges that the license is still valid. If the connection with the server is lost, the client application will not receive acknowledgements from the server and the client application will be gracefully terminated (MagicDraw forces you to save your work and close the application or try to reconnect again). In the case of no update from the client, the license server considers the license to be returned and it is available to other clients.

Floating licenses on a Laptop

Floating Licenses are primarily intended for workstations directly connected to a network. However, a portable computer that is connected to the Internet and can contact the license server, may use a Floating License as well.

Borrowing - offline license mode

If a license will to be used on a computer that is intermittently connected to the license server, that license can be borrowed from server and used as an offline floating license. A license can be borrowed from a license server for the selected period of time (default 24 hours) via Select Edition/Plugin in application. The borrowed license is used as an application on a computer that is no longer connected to the license server.

The maximum license borrowing period is one year. If you would like to limit the maximum borrowing period, please contact your account executive.

Floating Licenses and Teamwork Server

Floating Licenses are treated the same way as seat licenses, i.e. MagicDraw FL client applications work with the Teamwork Server. The Teamwork Server software does not serve Floating Licenses. A license server works in conjunction with the Teamwork Server.

Updating license

Upon updating license in the license server, all products licenses in the server are updated with the ones in the profile on www.magicdraw.com from which license key is used.

License Server Manager

FlexNet license server is used to manage floating licenses. The license server manager is one of the components that makes up a license server (the other being the vendor daemon). There is available a Web-based license server manager with the graphical user interface (GUI) - lmadmin.

A brief FlexNet license server advantages and capabilities:

- Intuitive license management with rich graphical user interface provided by lmadmin.
- Easy to perform general license management tasks, such as configuring license and stopping servers.
- Easy accessible picture of license status - how many licenses are available and who is using them.
- Ability to report on the duration a product is in use.
- Alerts if licenses are running low, unavailable, etc.
- Allow/deny/reserve products to be used by specific users, hosts, and groups.
- Log file is generated, containing products usage information.

**Structure of FlexNet license server**

![Diagram of FlexNet license server structure]

- **Vendor daemon** - one of the files that is a part of the license server. This executable is customized and built by No Magic Inc. To serve No Magic Inc. products licenses, license server requires cameo vendor daemon.

- **License file** - a text file, usually with the .lic or .txt extension, which contains license certificates.

- **Options file** - a configuration file available on the license server, which license administrators can use to allow / deny / reserve products to be used by specific users, hosts, and groups.

- **Report log file** - a file that runs on a license server, which contains data about the features used by a single vendor daemon. Report logs are encrypted and cannot be read by a person, but are used by FlexNet Manager to produce reports.

- **Debug log file** - a file used by the license server to record status and error messages that are useful for debugging the license server. Each license server can have one or more of these files.

- **lmadmin** - the new license server manager, which includes a Web-based GUI.

- **lmgrd** - a command-line-based license server manager.

**License usage analysis**

FlexNet Manager is the only solution with the direct access to the Flex license usage information - enabling enterprises to track and manage their FlexEnabled software with the most comprehensive and accurate usage reports.

Use Flexera Software license administration solution, FlexNet Manager, to gain exceptional visibility into license usage data and to create insightful reports on critical information like license availability and usage. FlexNet Manager can be fully automated to run these reports on schedule and can be used to track license
servers and usage across a heterogeneous network of server including Windows NT, Linux and UNIX. Contact Flexera Software at www.flexerasoftware.com for more details on how to obtain an evaluation copy of FlexNet Manager for your enterprise.

Server configuration capabilities

The License Server options file allows the license administrator to control various operating parameters within the constraints of the license model. The user is identified by his/her user name, host name, display, IP address, and other.

For the concurrent (floating) licenses, the license administrator can perform the following actions:

- Allow / deny / reserve products to be used by specific users, hosts, and groups.
- Restrict the number of licenses available.

For more information, see "Managing the Options File" section in the License Administration Guide.

Server alerts

The license server alerts when there are no available licenses or the server is down.

Alerts can be configured. You may set up lmadmin to issue alerts and warn you of potential problems. For example, you may set up to get alerts on license expiry or vendor daemon status.

Optionally you may use an lmadmin email alerter service. This service will poll for alerts and then send a user an email when an alert has been triggered.

For more information, see “Creating an lmadmin Alerter Service section” in the License Administration Guide.

Installing and unlocking FlexNet License Server

FlexNet License Server runs on the following operating systems:

- AIX® 32bit / 64bit
- HP-UX® 32bit / 64bit
- Linux 32bit / 64bit (Linux Standard Base (LSB) 3.0)
- Mac®OS 32-bit / 64-bit (Mac OS X 10.4, 10.5 and 10.6)
- Red Hat® Linux 64-bit
- SGI 64-bit
- Windows Server 2003, 2008 32bit and 64bit
- Windows Vista (Ultimate), Windows 7 (Ultimate) 32bit and 64bit

**IMPORTANT!** Sun OS/Solaris is not supported by No Magic Cameo vendor daemon.

For the FlexNet publisher requirements, see http://www.flexerasoftware.com/products/flexnet-publisher/requirements.htm.

Installing FlexNet license server on Windows

1. Download the Vendor daemon – cameo (from our site).
2. If you have no FlexNet server installed, download and install it. We recommend using web-based server – lmadmin (download it from Flexera Software site).

3. Add the Vendor daemon into the installed server. If you are using lmadmin, create licenses/cameo directories under <installation directory for lmadmin> and place the Vendor daemon file cameo under .../<installation directory for lmadmin>/licenses/cameo.

4. To start the server, run the lmadmin file from the user installation directory.

5. Read the hostid provided by your license server. To determine a hostid, refer to Determining a Host ID instructions.
6. Go to the license owner account at www.magicdraw.com/LicenseActivationManagement. Click the Create New License Activation Record button and enter user details and the Host ID of the machine.

<table>
<thead>
<tr>
<th>License List:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product</strong></td>
</tr>
<tr>
<td>MagicDraw UML 16.8 Standard edition Floating license</td>
</tr>
</tbody>
</table>

**Floating License Node Locking:**

Floating licenses are locked to a particular machine on which a FLEXnet server is running. The Hostid of the machine has to be entered before requesting floating license keys. To determine a hostid please refer to Determining a hostid instructions.

7. Request for the license key file. For the exact steps, refer to the License request instructions. **Note:** Do not save a license file in the same directory with the Vendor daemon.

8. Unlock the server with the obtained “FlexNet license server key.*” file. For the exact steps, refer to the license server unlock instructions. If you do not have a license file, refer to the License request instructions.

Related topics

- Requesting a license
- Unlocking FlexNet license server
- Determining a hostid

**Installing FlexNet license server on Mac OS**

1. Download the Vendor daemon – cameo (from our site).
2. If you have no FlexNet server installed, download and install it. We recommend to use web-based server – lmadmin (download it from Flexera Software site).
3. Add the Vendor daemon into the installed server. If you are using lmadmin, create licenses/cameo directories under `<installation directory for lmadmin>` and place the Vendor daemon file `cameo` under `.../<installation directory for lmadmin>/licenses/cameo`.

![Figure 4 -- Vendor daemon should be added into the <installation directory for lmadmin>/licenses/cameo](image)

NOTE: When opening the FlexNet directory, the following message appears:
The folder “FNPLicenseServerManager” can’t be opened because you don’t have permissions to see its content.

You can change permissions for the directory by executing the following commands from the root:

```
chmod g+x FNPLicenseServerManager/
chmod -R g+w ./*
```

4. To start the server, run the lmadmin file from the user installation directory.
5. Read the hostid provided by your license server. To determine a hostid, refer to Determining a Host ID instructions.
6. Go to the license owner account at [www.magicdraw.com/LicenseActivationManagement](http://www.magicdraw.com/LicenseActivationManagement). Click the Create New License Activation Record button and enter user details and the Host ID of the machine.

<table>
<thead>
<tr>
<th>License List: Paid Products</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product</strong></td>
</tr>
<tr>
<td>MagicDraw UML 16.8 Standard edition Floating license</td>
</tr>
<tr>
<td>(Left 10 months, 26 days)</td>
</tr>
</tbody>
</table>

**Floating License Node Locking:**

Floating licenses are locked to a particular machine on which a FLEXnet server is running. The Hostid of the machine has to be entered before requesting floating license keys. To determine a hostid please refer to [Determining a hostid](#) instructions.

7. Request for the license key file. For the exact steps, refer to the License request instructions. **Note**: Do not save a license file in the same directory with the Vendor daemon.

8. Unlock the server with the obtained “FlexNet license server key.*” file. For the exact steps, refer to the license server unlock instructions. If you do not have a license file, refer to the License request instructions.

**Related topics**

- [Requesting a license](#)
- [Unlocking FlexNet license server](#)
- [Determining a hostid](#)

**Installing FlexNet license server on Linux**

1. Download the Vendor daemon – cameo ([from our site](#)).
2. If you have no FlexNet server installed, download and install it as a root. We recommend to use web-based server – lmadmin (download it from [Flexera Software site](#)).
3. Add the Vendor daemon into the installed server. If you are using lmadmin, create `licenses/cameo` directories under `<installation directory for lmadmin>` and place the Vendor daemon file `cameo` under `.../<installation directory for lmadmin>/licenses/cameo`.

![FNPLicenseServerManager - File Browser](image)

<table>
<thead>
<tr>
<th>Name</th>
<th>Size</th>
<th>Type</th>
<th>Date Modified</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache</td>
<td>2 items</td>
<td>folder</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>conf</td>
<td>7 items</td>
<td>folder</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>demo</td>
<td>5 items</td>
<td>folder</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>examples</td>
<td>2 items</td>
<td>folder</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>licenses</td>
<td>1 item</td>
<td>folder</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>cameo</td>
<td>1 item</td>
<td>folder</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>cameo</td>
<td>1.1 MB</td>
<td>executable</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>logs</td>
<td>6 items</td>
<td>folder</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>uninstall</td>
<td>5 items</td>
<td>folder</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>web</td>
<td>8 items</td>
<td>folder</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>wsdl</td>
<td>1 item</td>
<td>folder</td>
<td>Fri 28 May 2010</td>
</tr>
<tr>
<td>Imadmin</td>
<td>8.3 MB</td>
<td>executable</td>
<td>Wed 18 Nov 200</td>
</tr>
</tbody>
</table>

*licenses* selected (containing 1 item)

![Figure 6 -- Vendor daemon should be added into the <installation directory for lmadmin>/licenses/cameo](image)

**Note**

When opening the FlexNet directory, you are informed that you don’t have permissions to open it.

You can change permissions for the directory by executing the following command from the root:

```
chmod g+x FNPLicenseServerManager/
```

4. To start the server, run the lmadmin file from the user installation directory.

**Important!**

Linux Standard Base (LSB) library should be installed.

5. Read the hostid provided by your license server. To determine a hostid, refer to Determining a Host ID instructions.
6. Go to the license owner account at www.magicdraw.com/LicenseActivationManagement. Click the Create New License Activation Record button and enter user details and the Host ID of the machine..

<table>
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</tr>
</tbody>
</table>

**Floating License Node Locking:**

*Hostid is requested in License List on www.magicdraw.com*

7. Request for the license key file. For the exact steps, refer to the License request instructions.

**Note:** Do not save a license file in the same directory with the Vendor daemon.

8. Unlock the server with the obtained “FlexNet license server key.*” file. For the exact steps, refer to the license server unlock instructions. If you do not have a license file, refer to the License request instructions.

**Related topics**
- Requesting a license
- Unlocking FlexNet license server
- Determining a hostid

**Unlocking FlexNet license server**

1. Open the Web browser and browse to the license server management interface: http://<server>:8080.
2. Login with the administrator’s rights. The default login and password is admin (please change it!).

3. Go to the Vendor Daemon Configuration (left side menu).
4. Click Import License and browse to the License file.

**NOTE**
If the Ethernet address of the machine under which lmadmin is running has been changed, please reinstall lmadmin before applying the key locked to the new host.

**Requesting a license**

1. Login with the user name and password into your or your company profile on www.magicdraw.com.
2. Go to the License List (right side menu) and enter hostid, where hostid is requested. Click the Send All Keys button.
3. All unlock keys will be sent to the e-mail provided in your account. From this page, you may also send or download each unlock key separately.

**NOTE**

FlexNet license server is compatible with v16.8 (and later) client applications. In order to use v16.6 and v16.8 floating licenses simultaneously, both No Magic Floating Server and FlexNet License Server installations are needed.

### Determining a hostid

To determine a hostid using lmadmin (recommended)

1. Open the Web browser and browse to the license server management interface: http://<server>:8080.
2. Go to System Information (left side menu) and copy the Ethernet Address.

To determine a hostid using lmhostid

- The lmhostid is a command line utility, which prints the hostid that a FlexNet license server requires on any supported system. The Lmhostid utility is available as an executable called lmutil. Download it for a particular OS from: http://www.globes.com/support/fnp_utilities_download.htm. Run lmutil with lmhostid parameter from the command line. Lmhostid displays the default hostid for the current platform.

For exact commands for specific operating system refer to: [License Administration Guide (Obtaining System Hostids)](http://example.com/license_administration)

**NOTE**

If two or more Ethernet addresses are available on the particular machine, the first one printed by the hostid command should be used.

### Troubleshooting for starting FlexNet license server

If you cannot start the FlexNet license server, make sure that the demo vendor daemon is not expired.

Information about demo vendor daemon expiration is displayed in the Imadmin.log file lines:

```
041 root.Vendor (demo) stopped.
042 root.LicenseEngine (demo) exited with status 47. (demo version has expired).
```

Imadmin.log file can be found in the FlexNet installation directory.

In order to start lmadmin without the demo vendor daemon, you need from the server.xml file remove the following line:

```
<daemon dateBasedVersion="false" dlog="false" executable="demo/demo"
license="demo/demo.lic" logFile="logs/demo.log" logOverwrite="false" name="demo"
port="0" restartRetries="3" />
```

The server.xml file can be found in the `<FlexNet installation directory>/Conf` directory.

### Starting MagicDraw and Connecting to the FlexNet License Server

After the FlexNet license server is started, you can connect to the server with MagicDraw.
1. Run a copy of the client version of MagicDraw. To obtain Floating License, click the **Use Floating License** button on the first MagicDraw startup.

![MagicDraw License Manager dialog](image)

**Unlock and Activate MagicDraw 15.9**

In this dialog, you can select license key files, activate the commercial license, or connect to the FLEXnet license server to obtain a floating license. All commercial licenses should be activated (locked to the particular machine) after the purchase transaction has been completed.

**Select Unlock Key**

Select MagicDraw 15.9 and/or plug-in license key files. License Keys can be: evaluation, demo, commercial not activated, or commercial activated (locked to the particular machine).

**Commercial License Activation**

Activate the commercial license for MagicDraw 15.9 and/or plugin. To check activation status, go to the About dialog, Licensing tab.

**Use Floating License**

Connect to FLEXnet License Server and obtain floating license.

If you do not have key files, login to http://www.magicdraw.com and download them.

**Figure 9 -- The MagicDraw License Manager dialog**

**NOTE**

If MagicDraw is started as Standalone, by changing the unlock key, you can change the license to the Floating license. To change the license, from the MagicDraw Help menu select the **MagicDraw License Manager**. In the opened **MagicDraw <version number> License Manager** dialog, click **Use Floating License**.
2. The **FlexNet License Server Connection** dialog appears. Enter the server host name or IP and port number (1101 by default). Click **OK**.

```
Figure 10 -- The FlexNet License Server Connection dialog
```

**NOTE**
- Host name/IP, where you have started the floating license server
- Default port number is 1101.

3. The **Select Edition/Plugin** dialog appears. Select an available edition and click **OK**.

```
Figure 11 -- The Select Edition/Plugin dialog
```

**NOTE**
If you would like to work on the computer that is not connected to the FlexNet license server, you may choose to work offline, although you must first connect to the FlexNet server online.

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**The commercial FlexNet license activation**

The commercial license activation is required after the purchase transaction has been completed. The activation process allows receiving the commercial license dedicated for the particular machine.

The full and updated information about commercial license activation you may find at [http://www.magicdraw.com/CommercialLicenseActivation](http://www.magicdraw.com/CommercialLicenseActivation).

**NOTE**
Only commercial activated licenses are locked to the particular machine.

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**Activating the commercial FlexNet license**

1. Login to the license owner account at [www.magicdraw.com](http://www.magicdraw.com).
2. Click the License Activation Management item in the Members menu (right hand selection).
3. Click the Create New License Activation Record button and enter user details and Host ID of the machine.
4. Download the license key file or send the key file in the email.
5. Go to FlexNet license server and browse for the saved license key file.

**NOTE**
FlexNet license server is compatible with v16.8 (and later) client applications. In order to use v16.6 and v16.8 floating licenses simultaneously, both NoMagic Floating Server and FlexNet License Server installations are needed.

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**Connecting offline to FlexNet license server**

If you like to work on the computer that is not connected to the FlexNet license server, you may choose to work offline, although you must first connect to the FlexNet license server online.

To connect offline to the FlexNet license server

- Select the Offline radio button in the Select Edition and Version dialog.

Default offline connection time is 24 hours.

If offline session ends at weekend, the session time is prolonged respectively uncounted weekend hours.

When you are working with FlexNet license server and Offline connection session time ends, the message about finished session is displayed.

To finish Offline Floating license session

- From the Help menu choose the Finish Offline License Session command and then click Yes, to close MagicDraw.

**NOTE**
This command is enabled only then Offline connection is selected.

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