

Licensing Tools

Version 10.8.0.2 for Alias products
for the Linux operating system



Legal Notices

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Licensing Tools: Linux

Installing the license server tools

Important Alias strongly recommends you uninstall the previous version of your licensing tools before installing the new version.

To install the license server tools

1 Download `pdr_LicenseServer10.80.tar.gz`

2 Uncompress and untar the file:

```
tar zxvf pdr_LicenseServer10.80.tar.gz
```

The archive contains the license server files, and the (optional) hardware lock (dongle) drivers for SuSE and Red Hat. See the next section.

3 Type `rpm -ivh file.rpm`, where the two files are:

- `AWCommon-10.80-1.i686.rpm`
- `AWCommon-server-10.80-1.i686.rpm`

The license server files are installed to `/usr/aw/COM`.

Installing the hardware lock (dongle) drivers

If you have a USB hardware lock (dongle) for your Linux license server, install the dongle drivers by doing the following:

Install by typing `rpm -ivh file.rpm`.

For Red Hat: `aksusbd-redhat-1.5-1.i386.rpm`

For SuSE: `aksusbd-suse-1.7-2.i386.rpm`

Verifying license server installation

If you are installing floating licenses, you must check to see that you have the correct version of the license server software.

To verify license server installation

Open a Terminal window or shell and type:

```
/usr/aw/COM/etc/lmgrd -v
```

You should have version **10.8.0.2** of the FlexLM software installed.

Obtaining and installing your floating license

After you have downloaded and installed your license server software you may need to obtain and install your floating license.

Online licensing tool (webkey)

If you are a Platinum member, your license may be included in our on-line licensing tool (webkey).

For Maya licenses:

- www.alias.com/products/maya/webkeys

For StudioTools licenses:

- www.alias.com/products/studiotools/webkeys

Instructions are provided on the webkey page for how to download and install the webkey per platform.

Request a license

If you are unable to get your license from the on-line tool OR if you are a new customer, you will need to fill out a SPAR (Software Product Authorization Request) form at the following URL: www.alias.com/spar/

You'll need to supply the following information:

- Name
- Company name
- License type
- Telephone
- Email
- Agreement number – You can find your Agreement Number either in an email sent to you or on the packing slip delivered with your software.
- System ID – This is the value of the hardware lock, if it exists, or your ethernet hardware ID. To obtain your system ID, please install the Alias Software, open a Terminal window and enter the following command:

```
lmhostid
```

Installing the floating license

If you were sent a license via email after filling out the SPAR form, following these instructions to install a new license.

- 1** Save the license from the email to a destination on your hard drive.
- 2** To copy the license (source file) to your machine's license file (destination file), use `findkey`, located at `/usr/aw/COM/bin/`. Type the following in a shell:

```
findkey -i <source file> <destination file>
```

The destination directory is `/var/flexlm/`, and the file name is generally `aw_servername.dat` or `aw.dat`.

Setup for floating licenses

To configure your machines to serve and receive licenses across the network, you must set up the license server, then set up each client computer that obtains a license from the server. (Servers can serve a license to themselves.)

Note	Your license server can serve licenses to workstations on all supported platforms. This requires that the computers can access each other via TCP/IP.
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License server management options and license server confirmation

To start the license server

- 1 Log in as root if you have not done so.
- 2 Check to see that the `aw_flexlm` script is installed in the following directory:
`/etc/rc.d/init.d/`
- 3 Stop then start the `lmgrd` daemon by entering the following commands:

```
/etc/rc.d/init.d/aw_flexlm stop  
/etc/rc.d/init.d/aw_flexlm start
```

 - If the server was on previously, the command issues some status information. An example of this status information is:

```
lmdown - Copyright (C) 1989-2004 Macrovision Corporation. All  
rights reserved.  
Shut down FLEXlm server on node servername 1 FLEXlm License  
Server shut down
```
 - If the server is already off, the command issues an error message similar to:

```
lmdown - Copyright (C)2004 Macrovision Corporation. All rights  
reserved.  
Connection to "servername" failed: Cannot connect to license  
server(-15,12:146) Connection refused
```

where `servername` is the name of the server machine. You can ignore this error message.
 - If the server starts successfully, the status message should look similar to this:

```
License file = /var/flexlm/aw_servername.dat  
FLEXlm Licensing daemon for Alias software: /usr/etc/lmgrd
```
- 4 Log out of root.

Additional troubleshooting steps

If you are having problems starting your licensing serve, stop and then restart your service as in the above instructions. If this does not solve your problem, do the following:

- 1 Type the following, and then press Return.

```
killall lmgrd
```

Note Using killall will terminate all lmgrd processes and will cause all license servers to stop working.

- 2 Type the following, and then press Return.

```
/usr/aw/COM/etc/lmgrd -c <path to license file>
```

- 3 View the log file at the following location:

```
/usr/tmp/aw_flexlm.log
```

- 4 Type the following, and then press Return to see if the license manager is running in the process list.

```
ps -aef | grep lmgrd
```

This confirms that the daemon is now running.

Setting up clients

To set up each client, you must add information to each client computer's `aw_servername.dat` file (on Mac OS X, `aw_client.dat`).

Note You can run Maya locally on the license server computer using its existing `aw_servername.dat` or `aw_server.dat` file, so you don't need to do the following steps on the server.

To set up a client

- 1 Make sure the license server and client can access each other through your TCP/IP network.
- 2 On your computer, create the following file in a text editor:
 - Windows: `C:\FLEXlm\aw_servername.dat`
 - Mac OS X: `/var/flexlm/aw_client.dat`
 - all other platforms (Linux, IRIX, etc.): `/var/flexlm/aw_servername.dat`
- 3 Type or copy this line from the license text provided by Alias. For example:

```
SERVER server 0 7111
```
- 4 Change the word `server` to match the name of your server. For example, if the server name is `myserver`, it would appear like this:

```
SERVER myserver 0 7111
```

- 5** On the second line, type the following:

```
USE_SERVER
```

Your file should now look like the following example:

```
SERVER myserver 0 7111  
USE_SERVER
```

The number 7111 is the port number used by FLEXlm on the server. If your site administrator has customized the server to use a different port for some reason, enter that number instead of 7111.

Note You can use an IP Address instead of the name of the server. For example, a license file named `aw_myserver.dat` on a client machine that is referencing the IP address would look like this:

```
SERVER 10.0.0.10 0 7111  
USE_SERVER
```

- 6** Press Enter to leave a blank line at the end.

- 7** Save the file and exit the text editor.

While you can go through this manual series of steps on each machine, once you have created the first `aw_*.dat` file, copy it to the `/var/flexlm` or `C:\FLEXLM\` directory on the other clients. If there are DOS control characters in the license file (that is, if you have copied it from a Windows client), remove them by typing the following command in a UNIX shell; for example:

```
tounix /var/flexlm/aw_servername.dat
```

This completes the licensing procedure for floating licenses.

If you need help

If you are having any problems with setting up your server license and you require troubleshooting information, please see: www.alias.com/support/