

# System .lic license files

## Subtopics

1. [Find out HostID and HostName](#)
2. [Editing .lic license files](#)

System \*.lic licenses enable you to scale test system capabilities, such as speed and memory.

All \*.lic license files reside by default in the /opt/flexlm/license directory on both the license client and the license server.

The system .lic license file on the client provides the hostname or IP address of the license server for SmarTest and the dedicated vendor daemon value (For Advantest SmarTest, the vendor daemon value is socbu). The vendor daemon value specifies that this license file is associated with the socbu vendor daemon.

To receive a system \*.lic license file, you must activate the corresponding license. For details see [Activating licenses](#).

Note: Service and Support (S&S) licenses do not need to be activated.

## Checking out licenses from a license server

The procedure for checking out licenses is:

- At startup, SmarTest reads the test program file and resolves the requested capability into required licenses.
- Next, the \*.lic license files in the /opt/flexlm/license directory on the same workstation are read. The \*.lic license files specify the hostname of the license server, which can be the same workstation in the case of a local license server, or another workstation in the case of a central license server. See [Editing .lic license files](#).
- Finally, SmarTest contacts the license server to check if the required licenses are available:
  - Available: the licenses are checked out and the features enabled.
  - Not available: SmarTest runs the script license\_checkout\_failure.

Note: Base capabilities are always available, even without licenses.

## Returning licenses to a license server

Licenses are automatically returned the license server when SmarTest is shut down.

## Related information

[Activating licenses](#)

[Editing .lic license files](#)

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# Find out HostID and HostName

This topic describes how to find out the HostID and the HostName of the license servers for license activation.

## About this task

Note: This topic is applicable to SmarTest 7 and SmarTest 8.

To activate license you need the following information:

- **Entitlement** Certificate
- **HostID** of the license servers
- **HostName** of the license servers

## Procedures

### Find out HostID

**FLEXIm binaries are installed**

1. Login to as user root: `su root` and enter the root user password.
2. Open a terminal window.
3. Type:

```
/opt/flexlm/bin/lmutil lmhostid -n
```

## **FLEXlm binaries are not installed**

The HostID is an 8 digit hexadecimal number (HP-UX or Solaris) or a 12-digit hexadecimal number (Linux). Select from one of the following commands, depending on your OS.

### **Sun Solaris**

1. Log in as root and open a terminal window.
2. Type:

```
/usr/bin/hostid
```

### **Linux**

1. Login to as user root: `su root` and enter the root user password.
2. Open a terminal window.
3. Type:

- **Linux RHEL 5**

```
/sbin/ifconfig eth0 | grep HWaddr | sed 's://g' | awk ' {print $NF} '
```

- **Linux RHEL 7**

```
/sbin/ifconfig eno1 | grep "ether" | sed 's://g' | awk ' {print $2} '
```

## **Find out HostName**

### **Sun Solaris**

1. Log in as root and open a terminal window.
2. Type:

```
/bin/hostname
```

### **Linux**

1. Login to as user root: `su root` and enter the root user password.
2. Open a terminal window.
3. Type:

```
/usr/bin/hostname
```

# What to do next

[Activating licenses](#)

## Related information

[Install a floating license file](#)

[FlexNet licensing](#)

[License clients and license servers](#)

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# Editing .lic license files

This topic describes how to edit FlexNet Publisher license server related license files (.lic files).

## About this task

**CAUTION:** The editing instructions below only apply to license files referring to a license server. Service and support license files have a different structure and must not be edited.

The `.lic` license files must reside in the `flexlm` license directory `/opt/flexlm/license/` for both license servers and clients.

The server `.lic` license file must provide the server hostname and the correct vendor daemon ("`soebu`").

The `.lic` file on the license server provides the actual license, while the corresponding client `.lic` file can contain an additional `USE_SERVER` statement used to specify the associated license server. When SmarTest reads the `USE_SERVER` statement from the client `.lic` file, it ignores everything else in the license file except the preceding `SERVER` lines and transfers license control to the specified license server. The `USE_SERVER` statement takes no arguments and should be used in client license files only.

Advantest strongly recommends adding the `USE_SERVER` statement to client `.lic` files. When using a central license server, the `USE_SERVER` statement improves performance compared with setting the `LM_LICENSE_FILE` environment variable.

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Note: For information about license server installation, see the section [License server setup](#).

# Procedures

## Server license files

To edit `.lic` license files on a server system:

1. Copy the `.lic` license file you received to the `/opt/flexlm/license/` directory on the license server system.
2. Open the `.lic` license file in an editor.
3. The `SERVER` statements specify the hostname and host IDs of the license server systems and the TCP/IP port number of the license server manager (`lmgrd`).

In the `SERVER` statement, replace the server hostname placeholder string `this_host` with the hostname of the license server.

The graphic below shows the server string to be replaced.

```
SERVER this_host 123456789012
VENDOR socbu
INCREMENT Digital_E7945_200_400Mbps socbu 1.0 31-jan-2007 2 {
  VENDOR_STRING=1234567890 ISSUER=FID_15b9e68_10cf8c0d221__7adc {
  NOTICE=perpetual_renewable SIGN="1176 723C 13FD 61AD 7166 DDA8 {
  042F 205E 3E51 DB6C 8CC1 9B04 69AD 4AAF 7773 0D5C 9E3D E487 {
  1A41 AD20 C7E9 70E5 459F 76FE 15EA BBFD 1EE0 4C5B 0AD8 AA78"
```

4. Also in the `SERVER` statement, replace the server host ID placeholder string `123456789012` with the actual host ID of your license server (and optionally the port number of your license server).

Note: For more information about querying the license server hostnames and host IDs, see [Find out HostID and HostName](#).

`<host_name>` = The license server hostname or IP address returned by the `hostname` command.

`<hostid>` = The string returned by the `lmhostid` command.

`[port]` = TCP/IP port number to use.

If a port must be specified (check with your network administrator), the syntax is as follows:

- `SERVER <host_name> <hostid> [port]`, for example: `SERVER MyLicSvr 8502053d1905 27000`
- `VENDOR socbu [port]`, for example: `VENDOR socbu PORT=27020`

Note: If no port is configured, the client automatically checks all ports from 27000 to 27009. Any other ports must be specified.

Normally a license file has one `SERVER` statement. Three `SERVER` statements signifies that you are using a three-license-server redundancy configuration. See [License clients and license servers](#). In a three-license-server configuration you must edit all three `SERVER` statement entries.

5. The `VENDOR` statement specifies the daemon name and should be as follows: `VENDOR socbu`

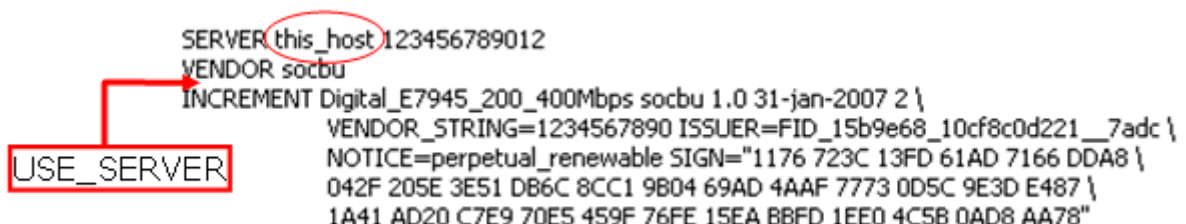
## Client license files

To edit `.lic` license files on a client system:

1. Copy the `.lic` license file you received to the `/opt/flexlm/license/` directory on the client machine.
2. Open the `.lic` license file in an editor.
3. The `SERVER` statements specify the hostname and host IDs of the license server systems and the TCP/IP port number of the license server manager (`lmgrd`).

In the `SERVER` statement, replace the server hostname placeholder string `this_host` with the hostname of the license server.

The graphic below shows the server string to be replaced.



```
SERVER this_host 123456789012
VENDOR socbu
INCREMENT Digital_E7945_200_400Mbps socbu 1.0 31-jan-2007 2 {
  VENDOR_STRING=1234567890 ISSUER=FID_15b9e68_10cf8c0d221__7adc {
  NOTICE=perpetual_renewable SIGN="1176 723C 13FD 61AD 7166 DDA8 {
  042F 205E 3E51 DB6C 8CC1 9B04 69AD 4AAF 7773 0D5C 9E3D E487 {
  1A41 AD20 C7E9 70E5 459F 76FE 15EA BBFD 1EE0 4C5B 0AD8 AA78"
```

4. Also in the `SERVER` statement, replace the server host ID placeholder string `123456789012` with the actual host ID of your license server (and optionally the port number of your license server).

Note: For more information about querying the license server hostnames and host IDs, see **Find out HostID and HostName**.

<host\_name> = The license server hostname or IP address returned by the `hostname` command.

<hostid> = The string returned by the `lmhostid` command.

[port] = TCP/IP port number to use.

Normally a license file has one **SERVER** statement. Three **SERVER** statements signifies that you are using a three-license-server redundancy configuration. See [License clients and license servers](#). In a three-license-server configuration you must edit all three **SERVER** statement entries.

5. The **VENDOR** statement specifies the daemon name and should be as follows: `VENDOR socbu.`

6. The **USE\_SERVER** line in the client license file ensures that the requested license features are obtained from the specified license servers. The license file on the client no longer needs to be in sync with the license file on the server and may even not contain any license information.

Enter the **USE\_SERVER** statement. It takes no arguments.

Note: For standalone systems with a local license server, the **USE\_SERVER** statement is not necessary as both client and server use the `/opt/flexlm/license/*` directory. Therefore, the server license file automatically specifies the server for the client (`<host_name> = localhost`).

7. **Optional:** In the client `.lic` file only, any license strings below the **USE\_SERVER** keyword are ignored and can be removed. Only the licenses on the servers specified in the **SERVER** lines are read.

## Related information

[License clients and license servers](#)

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Revision #2

Created 2025-10-15 09:59:57 CEST by Ekaterina Nikitina

Updated 2025-10-15 15:54:59 CEST by Ekaterina Nikitina