

# Floating License

## Floating License Instructions



Overview: Basically, you need to install the License Server, and send the almothid c the machine to keys@scitools.com. We will send you back a license.dat file to install, and then you start the license server service/daemon.

### Download Floating License Manager

Download the License Manager Build 603  
[www.scitools.com/download/licensemanager.php](http://www.scitools.com/download/licensemanager.php)

The license server can be any Linux, Solaris, Mac OSX, or Windows 2000/XP/2003/2008/Vista/Windows7 system which is accessible from the client that will be running **Understand** software. You can mix and match operating systems, fo example you can run a client on Windows and use a Linux system as the license server.

Each **Understand** installation kit contains the needed license manager software. So you intend to also run **Understand** on the server (or if you don't mind a little extra stuff on the server) install the full kit.

If you don't want **Understand** on the server, then install the "License Manager" kit appropriate for the architecture of your server. This is convenient for instance if you want to run **Understand** on Windows machines, but host the license server on Solaris.

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### Remove previous version

All commands must be ran as an administrator.

If the license server still has the 'sti' directory (default for the old License Manager):

### Linux Server

From a command line window on the server system

**ps aux | grep almd**

Find the process id (PID) number and kill the process:

**kill -9 <pid>**

Delete the 'sti' directory

## **Windows Server**

The service needs to be stopped and removed. From a command line window on the server system run

**"c:\Program Files\sti\bin\pc-win32\almdNTconfig.exe" -t** to stop the service

**"c:\Program Files\sti\bin\pc-win32\almdNTconfig.exe" -r** to remove the service.

Delete the 'sti' directory

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## **Install license server**

### **Linux Server**

To install, extract the kit in the location that you want it. The SciTools directory will be created automatically.

**tar -xvzf LicenseManager-2.5.512-Linux-x86.tgz**

NOTE: It is CRITICAL that the license kit be extracted in a manner that retains its original directory structure. Once extracted the directory containing the tools can be moved around, but the entire structure must be moved.

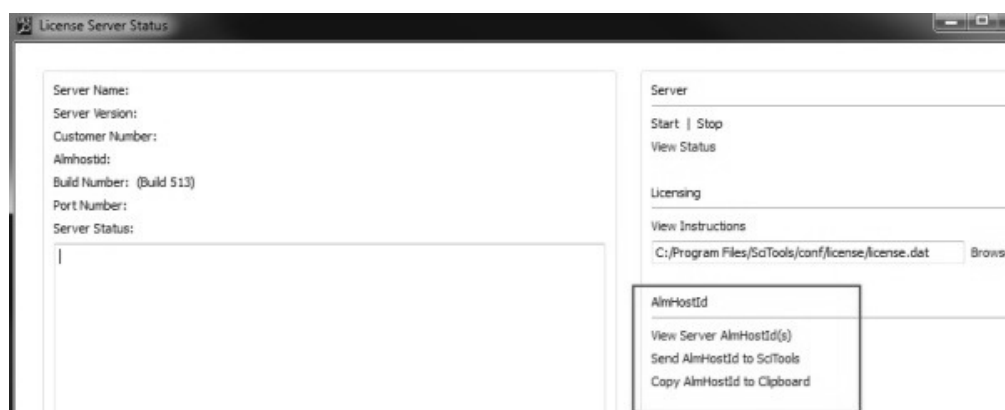
### **Windows Server**

Run the installer. Easy right?

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## **Determine the *almhost* of the server and obtain license file**

Find and run **licenseserver**. It is located in c:\Program Files\SciTools\bin\pc-win32\



Choose which option under AlmHostId works best for you:

- **View Server AlmHostId(s)** shows the results in the Server Status window in the left pane.
- **Send AlmHostId to SciTools** opens the mail client and populates it with the necessary information.
- **Copy AlmHostId to Clipboard** does just that-copies it to clipboard so you can paste it where you want.

However you choose to do it is fine, as long as the **AlmHostId** of the machine is emailed to keys@scitools.com. Once we have this information we will send you a

license.dat file for your system.

If the request is made during our working hours (8 - 5 MST), you should get the file back within one hour (usually much quicker).

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## Install the license file

On your server, place the license.dat file that we send back into the conf/license/ subdirectory.



In the License Server dialog, Browse to the location of the license.dat file. The file MUST be in the same location as the Licensing window shows.

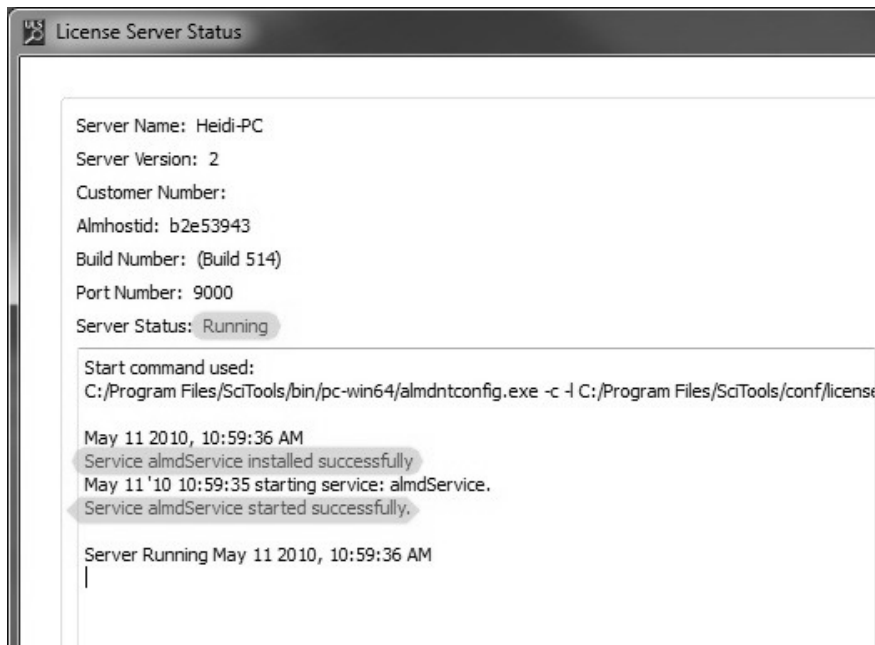
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## Start the license server

Verify that UDP Port 9000 is open and Select "Start" in the upper right.



The Server Status should show that it is running.



This is your license server for *Understand* and must stay running.

If you have any problems or if you still receive the evaluation mode notice, contact support.

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## Linux and Mac Users

### **Linux**

In order for the License Server to start after a reboot of the machine, you will need to add licenseserver to your Start Up. The instructions for this may vary for each Linux distribution.

### **Mac**

A script can be used to start the License Server after a reboot of the machine. Create a file called: com.scitools.almd.plist in /Library/LaunchDaemons with these contents:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple Computer//DTD PLIST 1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
<key>Label</key>
<string>com.scitools.almd</string>
<key>ProgramArguments</key>
<array>
<string>/path/to/SciTools/bin/macosx/almd</string>
<string>-l</string>
<string>/path/to/license.dat</string>
</array>
<key>RunAtLoad</key>
<true/>
</dict>
```

</plist>

Replace /path/to/SciTools/bin/macosx/almd and /path/to/license.dat with the actual paths to where the daemon and license.dat are installed. Now the daemon should start at boot.

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### Test with a client app (optional)

As long as the license server is running, you will be able to run **Understand** from another client. When **Understand** prompts for a server name, either the IP address or the name of the server that the License Manager is running on will work.

If you want to check on the license server status from a client machine, run **almstatus** from the command line. It will show how many licenses are available and who has licenses checked out.

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### Command Line Instructions (optional)

If you prefer to use the command line rather than the GUI, these commands are for you.

#### **Linux**

Run **almhostid** to determine the *almhost* of the server and email it to keys@scitools.com.

Make sure UDP Port 9000 is open and run **almd** to start the license server daemon and specify the location of the license file with the **-l** option.

```
almd -l /sti/conf/license/license.dat
```

To see other options use **almd -h**

#### **Windows**

Run **almhostid.exe** to determine the *almhost* of the server and email it to keys@scitools.com

Make sure UDP Port 9000 is open and run **almdNTconfig** with the **-c** option to install and start the license manager as a Windows service. Use the **-l** option to specify the location of the license file.

```
almdNTconfig -c -l "c:\program files\SciTools\conf\license\license.dat
```

To see other options use **almdNTconfig -h**

### Troubleshooting License Server Issues

Below are some of the most common problems encountered when hosting a license server.

## ***Version Mismatch***

Make sure that the license type in the license file matches the version of Understand being used.

Understand 2.5 and later (Build 507+) use a different license scheme than older versions of Understand and require a different license. All new licenses appear as 'understand' in the license file, while Understand 2.0 and older licenses appear as 'understand\_ something'.

## ***Firewall Ports***

Understand uses UDP port 9000 to communicate with the License Server. If there are problems, ensure that this port is open on both the client and server.

## ***Almhostid Changed***

The license file is built targeting the Almhostid of the specific server. If a hardware change causes the almhostid to change, a new license will need to be generated. Send the new almhostid to [keys@scitools.com](mailto:keys@scitools.com) and we will rebuild the license file.

## ***DNS Resolution Problems***

Sometimes the client where Understand is installed has problems finding the server. Verify that you can ping the server, or trying specifying the IP address instead of name of the server.

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