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# Table of Contents

<b>Part I Installation - licence server</b>	<b>2</b>
<b>Part II Windows Firewall</b>	<b>4</b>
<b>Index</b>	<b>0</b>

# 1 Installation - licence server

The SusProg3D licence server must be installed and started before attempting any client connections.

You will need administrator rights to be able to install and uninstall the SusProg3D licence server.

1. Load the server software onto the server PC.

Run SawdustSetup.exe. This will run the install program which will copy the software to the correct location.

The following notes assume that you have used the default directory location, "C:\Program Files\SusProg3D".

2. Install the server as a service.

Go to Start | Run and enter "**C:\Program Files\SusProg3D\bin\Sawdust.exe** /INSTALL" and then OK.

If successful, you will see an information message on screen "Service installed successfully". Click OK.

If you try a second install (without having completed an uninstall) then you will get an error message on screen "The specified service already exists". Click OK.

If you wish to suppress the messages, add the /SILENT switch, like this  
"C:\Program Files\SusProg3D\bin\Sawdust.exe /INSTALL /SILENT"

3. Allocate the port number and start the service.

Go to Start | Control Panel | Administrative Tools | Services.  
Scroll down and find "SusProg3D Licence Server".

There are different instructions for the first and subsequent times the SusProg3D Licence Server is started.

**First time: If you have already chosen a port number.**

Right click on "SusProg3D Licence Server" and then Properties.

Click on the "General" tab.

Startup type should be "Automatic"

Add a start parameter, "/PORT=####" where #### is the port number (without the quotes).

And then click "Start" (just above the start parameter input, on the Properties dialog)

**First time: If you do not have a specific port number, and will use a system allocated number**

Right click on "SusProg3D Licence Server" and then Properties.

Click on the "General" tab.

Startup type should be "Automatic"

And then click "Start" (just above the start parameter input, on the Properties dialog)

If you do not specify a port parameter, or specify /PORT=0, then the TCP/IP system will allocate the next available port number, usually between 1025 and 5000.

To avoid conflict with existing services always use a port number above 1025.

Once you have established the port number you wish to use, you will need to reserve it for future use. This involves changing a registry setting. For full details, refer Microsoft Knowledge Base article number 812873 at <http://support.microsoft.com/kb/812873>

**Second and subsequent times: If you are restarting the service, and wish to change the port number**

Right click on "SusProg3D Licence Server" and then Properties.  
Click on the "General" tab  
Add a start parameter, "/PORT=#####" where ##### is the port number (without the quotes).  
And then click "Start" (just above the start parameter input, on the Properties dialog)

**Second and subsequent times: If you are restarting the service, and do not need to change the port number**

On subsequent starts, the SusProg3D Licence Server it will continue to use the same port number. If you do not need to change the port number as part of a subsequent start, then, after highlighting the "SusProg3D Licence Server" just click "Start".

4. Check the server messages.

Go to Start | Control Panel | Administrative Tools | Event viewer.

Click on "Application" to show all application event messages.

Click on the "Source" column to sort all the messages by source and look for "SusProg3DLS".

If you did not specify a specific port number in the start parameters, then check the "Normal start" message for the port number.

5. To stop the service.

Go to Start | Control Panel | Administrative Tools | Services.

Scroll down and find "SusProg3D Licence Server". Click on "Stop"

6. To Uninstall the server as a service.

Go to Start | Run and enter "**C:\Program Files\SusProg\Sawdust.exe**" /UNINSTALL and then OK.

If successful, you will see an information message on screen "Service uninstalled successfully".

Click OK.

Under normal circumstances you only need to INSTALL and start the service once.

When the PC is shutdown it will automatically stop the service.

When the PC is booted it will automatically start the service, and will reuse the previous port number.

You should only need to manually stop the service, and uninstall it, when upgrades to the server are required.

With Windows XP, instead of the "Start | Control Panel | Administrative Tools" sequence, you can right click on My Computer and Manage.

You will need to note the port number that the SusProg3D Licence Server is using as the SusProg3D clients require this to connect to the licence server.

If you need to change the port number, then stop the service, specify the port number, and start the service.

Event viewer messages.

Category "Information" messages are usual messages and indicate appropriate server status.

Category "Warning" or "Error" indicate more serious problems which require attention.

The "Event number" is the message number.

There may be occasions when it is appropriate to have more extensive event messaging.

To configure the additional messages; stop the service, specify a VERBOSE start parameter, and restart the service.

Normal start. Port number N. There are M licences This is the normal starting message, and displays available. the port number in use and the number of licences

Registration error	available. There is an error reading the servers own licence. Usually because the server has not been licenced.
Licence request received from Aaaa and allocated. N of M licences in use.	The SusProg3D client on PC "Aaaa" has requested a licence. It has been granted, and the number of licences currently in use is shown.
Licence renewal received from Aaaa and allocated. N of M licences in use.	The SusProg3D client on PC "Aaaa" is already licenced and has requested a renewal. It has been granted, and the number of licences currently in use is shown.
Licence request received from Aaaa and declined. All M licences in use.	The SusProg3D client on PC "Aaaa" has requested a licence. It has been declined because all of the available licences are currently allocated. The number of licences currently in use is shown.
Licence request received from Aaaa and declined. No licences available.	The SusProg3D client on PC "Aaaa" has requested a licence. It has been declined because there are no licences available, that is, the number of licences for this server is zero.
Licence allocated to Aaaa has been returned. N of M licences in use.	The SusProg3D client on PC "Aaaa" has exited and returned the licence to the server. The number of licences currently in use is shown.
Licence allocated to Aaaa has expired. N of M licences in use.	The SusProg3D client on PC "Aaaa" has lost communication with the server. This is either because the client PC has shut down, or the SusProg3D client has failed. The licence is returned to the server. The number of licences currently in use is shown.
Server registration updated. There are M licences available.	The SusProg3D Licence Server has been correctly registered and indicates the number of client licences available.
Server registration failed. There are no licences available	The SusProg3D Licence Server registration has failed.

## 2 Windows Firewall

If you are having problems communicating from a client PC to the server PC, and all connections, host name and port number are correct, the problem may be the Windows Firewall on the server PC.

One solution is to add the licence server to the list of exceptions.

Open up the Windows Firewall. Go to Control Panel -> Windows Firewall.

Click on the "Exceptions" tab.

Click "Add Program" and then "Browse". Go to the location where you installed Sawdust, usually "C:\Program Files\SusProg3D\bin" and select Sawdust.exe, then "Open". Then "OK"

The list of Programs and Services will update, and add Sawdust.

Click "OK"