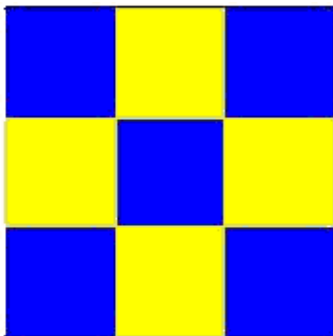


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Licence Server Installation Guide



SusProg3D
Suspension by Design

SusProg3D - Suspension by Design

SusProg3D - Robert D Small

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1 Installation - Automatic

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.

If you are upgrading from V4 you will need to stop and uninstall the SusProg3DLS licence server.

If you are upgrading from V5 the install will replace the old version with the latest version. There is no need to stop or uninstall the SusProg3DLS licence server. The update can be installed over the top of the current installation.

Sawdust will install the 64-bit version on Windows 64-bit systems, and the 32-bit version on Windows 32-bit systems.

By default, Sawdust 64-bit will install into C:\Program Files\SusProg3D\bin and SusProg3D 32-bit will install into C:\Program Files (x86)\SusProg3D\bin

If you were previously running Sawdust V4 on a Windows 64-bit system, then any shortcuts created would have a target C:\Program Files (x86)\SusProg3D\bin. You will need to change these to target C:\Program Files\SusProg3D\bin

Download and run SawdustSetup.exe.

If installing the 64-bit version, and a previous 32-bit installation is found, click on OK to uninstall. Follow the prompts.

Enter the required port number. See the notes on choosing a port number. If left blank or zero, a system allocated port number will be assigned.

On the initial licence server install, the installation process will automatically:

- Copy the required files.
- Install the SusProg3DLS licence server.
- Start the Susprog3DLS licence server.

On subsequent upgrades, the installation process will automatically:

- Stop the SusProg3DLS licence server.
- Copy the required files.
- Install the SusProg3DLS licence server.
- Start the Susprog3DLS licence server.

On successful starting of the SusProg3D licence server the port number now in use will be displayed.

The install process should automatically perform all necessary step. In the case of manual intervention, these steps are described here.

Event viewer messages.

2 Installation - Manual

The following notes are for Windows 10 and 11 and for the equivalent Windows Server editions. Windows 10 and 11 are similar. The examples shown are for Windows 11.

These notes assume that you have installed into the default directory location, "C:\Program Files\SusProg3D" or "C:\Program Files (x86)\SusProg3D".

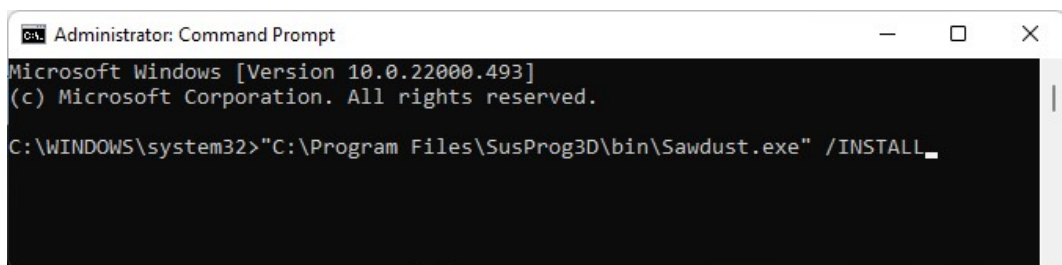
1. Manually installing the server as a service.

- Use the Command Prompt.

Windows 10: Go to Start then All Programs then Accessories. Right click on "Command Prompt" and then "Run as Administrator".

Windows 11: Go to Search and enter "Command". This should select the Command Prompt app. Click on "Run as administrator".

Enter "**C:\Program Files\SusProg3D\bin\Sawdust.exe**" /INSTALL and then OK.



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22000.493]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>C:\Program Files\SusProg3D\bin\Sawdust.exe /INSTALL_
```

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.

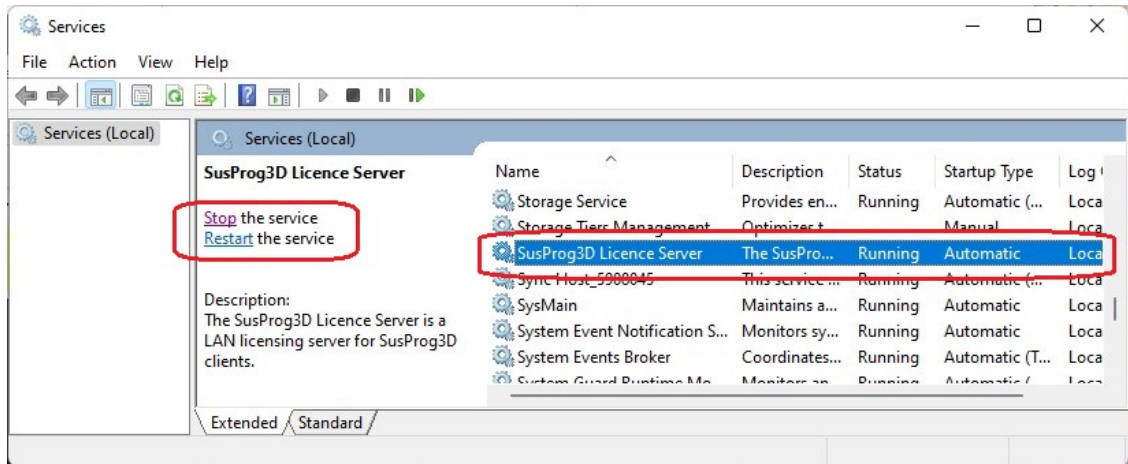
- If you wish to suppress the messages, add the /SILENT switch, like this
"C:\Program Files\SusProg3D\bin\Sawdust.exe" /INSTALL /SILENT

2. Allocate the port number and start the service.

Open the "Services" console

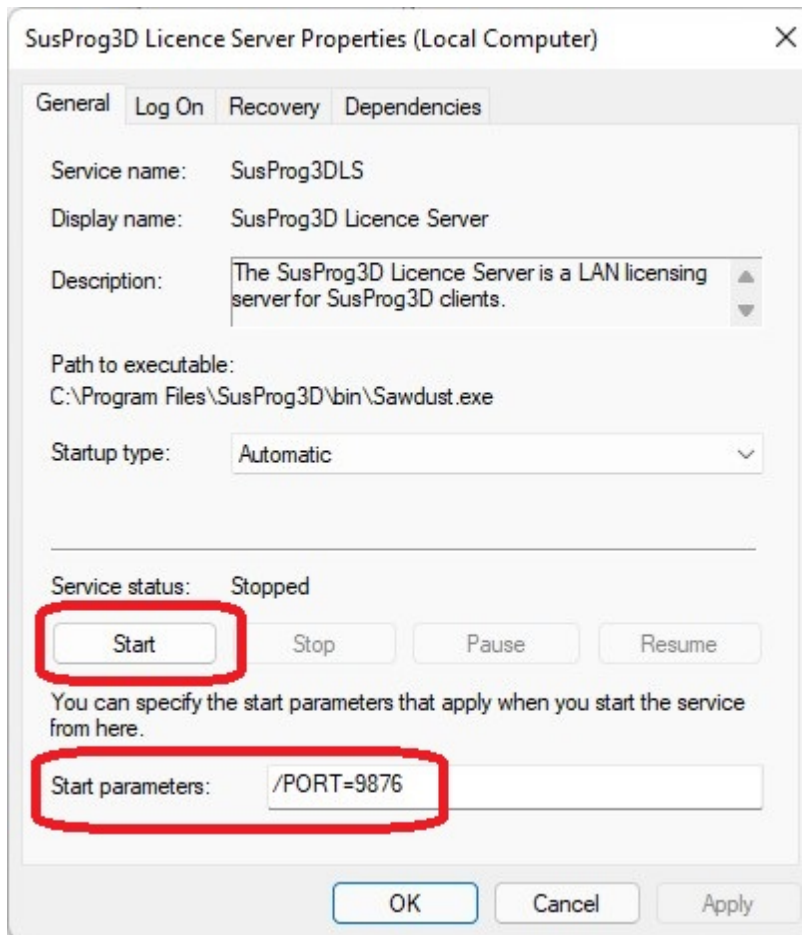
Windows 10: Go to "Start" then scroll down to "Windows Administrative Tools" then "Services".

Windows 11: Go to Search and enter "Services". This should select the Services app. Click on "Run as administrator".



The SusProg3D Licence Server can be started and stopped from here.

If you need to specify start parameters, then right click on the server name then select Properties. This will bring up the properties dialog.



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.

Additional information regarding port number assignments can be found at <http://www.iana.org/assignments/port-numbers>

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 reuse the previous 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".

3. Check the server messages.

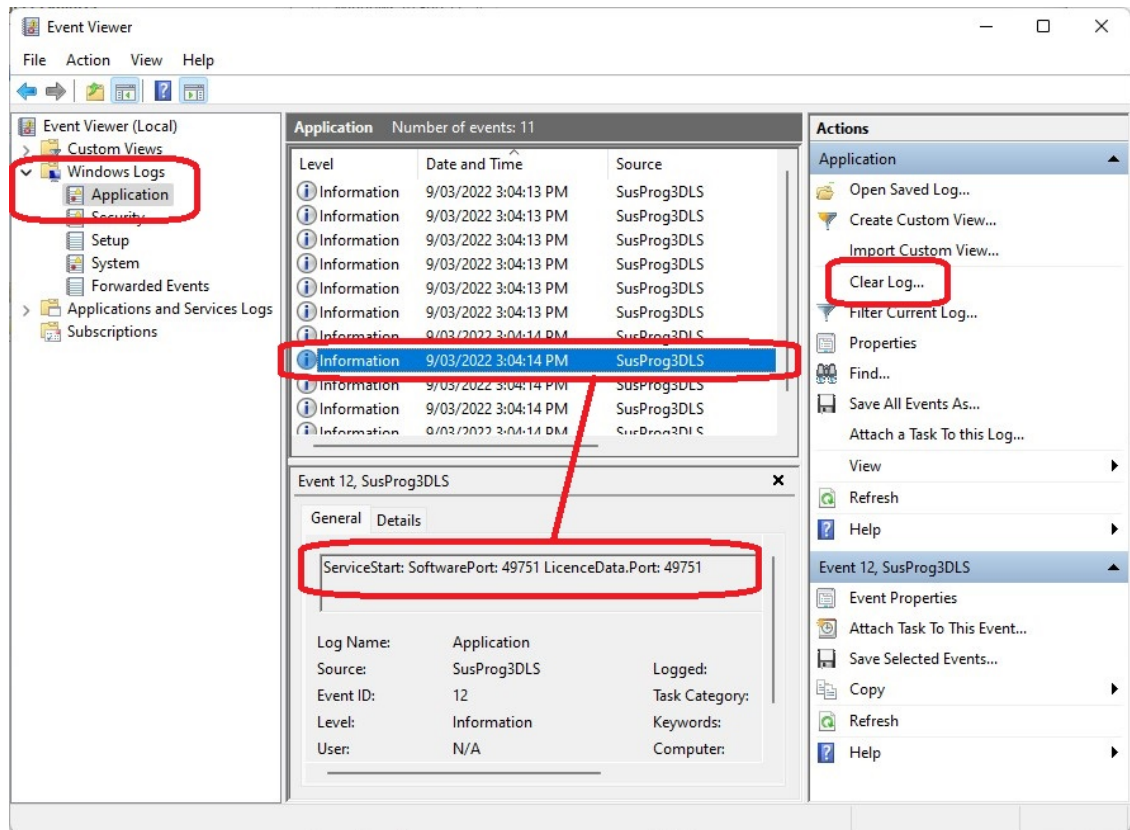
Open the Event viewer and show all application event messages.

Windows 10: Go to "Start" then scroll down to "Windows Administrative Tools" then "Event Viewer".

Windows 11: Go to Search and enter "Event Viewer". This should select the Event Viewer app. Click on "Run as administrator".

To view the SusProg3D Licence Server messages select "Windows Logs" then "Application". 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 in use.

To clear out all the messages, click "Clear Log"



4. To stop the service.

Open the Services console.

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

5. To Uninstall the server as a service.

Open the Run dialog or open a Command Prompt.

Enter "**C:\Program Files\SusProg3D\bin\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 restarted it will automatically restart 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.

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.

3 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 available. This is the normal starting message, and displays the port number in use and the number of licences available.

Registration error There is an error reading the servers own licence. Usually because the server has not been licenced.

Licence request received from Aaaa
and allocated. The SusProg3D client on PC "Aaaa" has requested a licence. It has been granted, and the number of licences currently in use is shown.
N of M licences in use.

Licence renewal received from Aaaa
and allocated. 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.
N of M licences in use.

Licence request received from Aaaa
and declined. 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.
All M licences in use.

Licence request received from Aaaa
and declined. 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.
No licences available.

Licence allocated to Aaaa has been
returned. The SusProg3D client on PC "Aaaa" has exited and returned the licence to the server. The number of licences currently in use is shown.
N of M licences in use.

Licence allocated to Aaaa has
expired. 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.
N of M licences in use.

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.

4 Updates

From time to time the licence server software will be updated. These updates may be bug fixes or feature changes. Updates will be provided in the same format as the original installation, ie a full setup installation.

If you are upgrading from V4 you will need to stop and uninstall the SusProg3DLS licence server.

If you are upgrading from V5 the install will replace the old version with the latest version. There is no need to stop or uninstall the SusProg3DLS licence server. The update can be installed over the top of the current installation.

Download and run SawdustSetup.exe.

If installing the 64-bit version, and a previous 32-bit installation is found, click on OK to uninstall. Follow the prompts.

The currently assigned port number will be shown. See the notes on choosing a port number.

On subsequent upgrades, the installation process will automatically:

- Stop the SusProg3DLS licence server.
- Copy the required files.
- Install the SusProg3DLS licence server.
- Start the Susprog3DLS licence server.

On successful starting of the SusProg3D licence server the port number now in use will be displayed.

5 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 blocking the inbound and / or outbound connections.

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

Open up the Windows Firewall.

Windows 11

Use the Windows "Search" and search for "Firewall". Open the Windows Defender Firewall app.

Click on "Allow a program or feature through Windows Firewall"

Click on "Allow another program..." and then "Browse".

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

"Sawdust.exe" should be highlighted in the list of programs. Click "Add".

"Sawdust.exe" should be added to the list of allowed programs and features.

Windows 7, 8 and 10

Go to Control Panel -> System and Security -> Windows Firewall.

Click on "Allow a program or feature through Windows Firewall"

Click on "Allow another program..." and then "Browse".

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

"Sawdust.exe" should be highlighted in the list of programs. Click "Add".

"Sawdust.exe" should be added to the list of allowed programs and features.