



# Pointwise Quick Installation

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Pointwise, Inc.  
213 S. Jennings Ave.  
Fort Worth, Texas 76104-1107, USA

Phone: (817) 377-2807  
Toll free: (800) 4PTWISE  
Fax: (817) 377-2799

Email: [support@pointwise.com](mailto:support@pointwise.com)  
URL: <http://www.pointwise.com>

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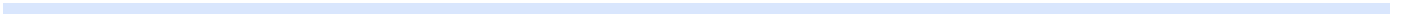
Arbitration shall take place in Dallas, Texas and be administered by the AAA's Dallas, Texas office.



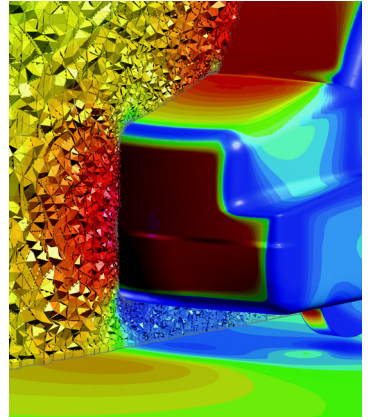
# Quick Installation

## Table of Contents

<b>System Requirements</b> .....	1.1
Overview .....	1.2
All Platforms .....	1.2
Windows .....	1.2
Linux .....	1.2
Mac .....	1.3
<b>Windows/Linux/Mac Install</b> .....	2.1
Overview .....	2.2
Download and Extraction .....	2.2
Obtaining Your License File (Windows) .....	2.3
Obtaining Your License File (Linux/Mac) .....	2.4
Configure and Start the Pointwise License Server (Windows) .....	2.4
Configure and Start the Pointwise License Server (Linux/Mac) .....	2.5
Running Pointwise .....	2.5
Silent Installations (Windows/Linux/Mac) .....	2.5
Running Pointwise with a LAN or Remote Server .....	2.6
Transitioning to a New License Server .....	2.6



# System Requirements



## 1.2 Pointwise Quick Installation Guide

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### Overview

This document provides the minimum system requirements for the platforms and operating systems supported by the Pointwise grid generation software.

### All Platforms

The following minimum requirements are needed to install and run Pointwise on any supported platform:

- 256 Mbytes RAM
- 100 Mbytes disk space
- OpenGL capable color display
- Ethernet card
- 3D hardware accelerated OpenGL graphics
- 24-bit RGB, double-buffered graphics
- 1280x1024 resolution

### Windows

Pointwise supports Windows on both AMD and Intel.

Minimum Requirements	
<b>Operating Systems</b>	Windows 7, Vista, Vista x64, XP

### Linux

Pointwise supports Linux on both AMD and Intel.

Minimum Requirements	
<b>Operating Systems</b>	Red Hat Enterprise Linux 4
<b>Architecture</b>	x86 (for 32-bit Pointwise) x86_64 (for 64-bit Pointwise)
<b>Library Packages</b>	libstdc++-3.4.5-2 glibc-2.3.4-2.19 libgcc-3.4.5-2 libf2c3.4.6 or compat-libf2c-34-3.4.6 (for 32-bit Pointwise) xorg-x11-libs-6.8.2-1.EL.13.25.1

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## Mac

Pointwise supports the following Mac configurations:

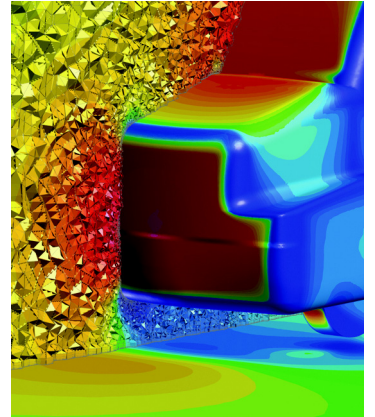
<b>Minimum Requirements</b>	
<b>Operating System(s)</b>	OS X Tiger (V10.4) or higher
<b>Architecture</b>	Power PC, Intel Mac

**1.4 Pointwise Quick Installation Guide**

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# Windows/Linux/Mac Install



## 2.2 Pointwise Quick Installation Guide

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### Overview

This document provides instructions for installing the Pointwise grid generation software on Windows, Linux, and Mac platforms. For Windows and Mac platforms, users will need to be Administrator (or Root) to install Pointwise.

### Download and Extraction

Follow these instructions if you are installing Pointwise for the first time or alongside existing Pointwise installations. Please note that if the workstation on which you are installing Pointwise is also your license server, you will need to take some additional steps before beginning installation. Please see the [Transitioning to a New License Server](#) section for more details.

**Note:** If installing from CD instead of download, you will need to copy the file in Step 1 from the CD's root directory into a temporary directory and proceed to Step 2.

1. Using your internet browser, go to <http://www.pointwise.com/downloads>. Download the following file to a temporary directory based on your platform:

Platform	File
Windows 32-bit	pw-win32.exe
Windows 64-bit	pw-win64.exe
Mac OS X	pw-macosx.zip
Linux 32-bit	pw-linux.bin
Linux 64-bit	pw-linux-x86-64.bin

2. Start the installation process by performing the following actions for your platform from the temporary directory (for silent or background installations, see the section titled [Silent Installations \(Windows/Linux/Mac\)](#) below):

Platform	Action
Windows 32-bit	Double-click pw-win32.exe.
Windows 64-bit	Double-click pw-win64.exe
Mac OS X	1. Double-click pw-macosx.zip in the Finder. 2. Double-click PwInst.
Linux 32-bit	Enter <code>sh ./pw-linux.bin</code> in an X11 terminal window.
Linux 64-bit	Enter <code>sh ./pw-linux-x86-64.bin</code> in an X11 terminal window.

3. The Pointwise installation screen will appear to guide you through the remainder of the process. The first screen that appears will be the *Introduction*. You will be asked to quit other programs before continuing with installation. Press *Next* to continue with the installation.
  4. If you already have versions of Pointwise (V16.02 or higher) installed on your workstation, the *Uninstall Prior Versions* screen will appear. If you wish to uninstall any of the existing versions, you will have to select *Yes* prior to installing the new version or *No* to install the new version alongside existing versions.
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- Selecting *Yes* will take you to the *Uninstall Pointwise* screen. Press *Next* to choose what you wish to uninstall. If you choose *Complete Uninstall*, all versions of Pointwise will be removed. If you choose *Uninstall Specific Features & Versions*, you will be prompted to select which versions of Pointwise should be uninstalled before proceeding. Press *Uninstall* to begin removal.
  - Selecting *No* will result in the new version of Pointwise being installed in a directory parallel to versions of Pointwise already installed on your workstation.
5. The Pointwise Right to Use License Agreement will be displayed next. If you wish to proceed with installation, toggle on *I accept the terms of the license agreement*. Press *Next* to continue with the installation. Otherwise, press *Cancel* to exit installation.
  6. You will next need to select which set of components you wish to install from the following three options:
    - Complete - This option will install both Pointwise and its FLEXnet license management software. This option is recommended for most users.
    - Pointwise - This option will install only Pointwise and its associated documentation. No FLEXnet license management software or utilities will be installed.
    - License Manager - This option will only install the FLEXnet license management software.
 Press *Next* to confirm your selection.
  7. In the *Choose Install Folder* screen you can use the default installation directory displayed or use the *Choose...* option to browse for a different installation directory. Note that the directory specified will be referred to as *pwi\_home\_path* in the following sections. Press *Next*.
  8. Review the *Pre-Installation Summary* screen to ensure that all of the options that were chosen in previous steps are correct. Press *Install* to start the installation. This will begin the process of extracting and copying the Pointwise files to the installation directory previously specified.
  9. When Pointwise has been successfully installed, press *Done* to finish the installation.

Now that you have Pointwise installed, you will need to have access to a license server in order to run it. There are two primary methods that may be used:

- Pointwise can be set up to look either on your local area network (LAN) for a specific server name to access an existing Pointwise license server or it can be pointed at a remote server. More details can be found in the [Running Pointwise with a LAN or Remote Server](#) section.
- A Pointwise license server can be configured and started locally on your workstation. The following sections outline the steps necessary to set up a new server.

## Obtaining Your License File (Windows)

The Pointwise license file contains alpha-numeric codes which determine how many users can simultaneously execute Pointwise and the expiration date through which the license is valid. To obtain your license file on a Windows platform, you will need to use the following steps:

1. Run the Pointwise LMTOOLS utility to get your server information by going to *Start, All Programs, Pointwise, License Management, lmtools*. Click on the *System Settings* tab.
2. Take the information from the *Computer/Hostname* and *Ethernet Address* fields and submit them as your *Hostname* and *Host ID* respectively at <http://www.pointwise.com/licenses/>. Be sure to include your Customer ID with your license request.
3. Once you receive your license file from Pointwise, save it as *pointwise\_flexnet.lic* in the *pwi\_home\_path/licenses/* directory.

## 2.4 Pointwise Quick Installation Guide

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### Obtaining Your License File (Linux/Mac)

The Pointwise license file contains alpha-numeric codes which determine how many users can simultaneously execute Pointwise and the expiration date through which the license is valid. To obtain your license file on a Linux or Mac platform, you will need to use the following steps:

1. Run the shell script called `LICENSE_CONTROL.SH` from `pwi_home_path` to get your server information. Run it using the following command at the command prompt:

```
sh ./LICENSE_CONTROL.SH
```

2. You should see output similar to the following appear below the prompt:

```
Current settings:
  Hostname                : xenia.pointwise.com
  Pointwise license host ID : 000d605313b2
  * Pointwise installed license file : (missing)
```

3. Submit the *Hostname* and *Pointwise license host ID* seen under *Current Settings* at: <http://www.pointwise.com/licenses/>. Be sure to include your Customer ID in your submission.
4. Once you receive your license file from Pointwise, run the `LICENSE_CONTROL.SH` shell script again.
5. Select option *f) Import License*.
6. Enter the current location (using the full path and filename) of the license file you received from Pointwise. The script will import your file to the appropriate location.

### Configure and Start the Pointwise License Server (Windows)

1. You are now ready to setup your Pointwise server. You will need to go back to the LMTOOLS utility to do this. Please go to *Start, All Programs, Pointwise, License Management, Imtools*.
  2. Select the *Config Services* tab.
  3. In the *Service Name* field, enter `Pointwise Server`.
  4. In the *Path to the Imgrd.exe file* field, select *Browse*. Use the file browser to go to `pwi_home_path\flexnet\win32`. Select the file `Imgrd.exe` and press *Open*. This will place the full path to the file in the *Path to the Imgrd.exe file* field.
  5. In the *Path to the license file* field, select *Browse*. Use the file browser to go to `pwi_home_path\licenses\`. Select the file `pointwise_flexnet.lic` and press *Open*. This will place the full path to the file in the *Path to the license file* field.
  6. In the *Path to the debug log file* field, select *Browse*. Use the file browser to go to `pwi_home_path\licenses\`. Enter the filename `pointwise_flexnet.log` and press *Open*. This will place the full path to the new log file in the *Path to the debug log file* field.
  7. Check the box *Use Services*.
  8. Check the box *Start Server at Power Up*.
  9. Press *Save Service*.
  10. Press *Yes* when asked if you want to save the settings for the service called *Pointwise Server*.
  11. Select the *Start/Stop/ReRead* tab in the LMTOOLS utility.
  12. Press *Start Server*.
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## Configure and Start the Pointwise License Server (Linux/Mac)

1. To start the Pointwise license server, you will first need to run the shell script called `LICENSE_CONTROL.SH` from `pwi_home_path`. Run it using the following command at the command prompt:

```
sh ./LICENSE_CONTROL.SH
```

2. Select option *c) Start*.
3. Enter the complete path and filename of the logfile you wish to use for the Pointwise server. We recommend that you use the following path and filename: `pwi_home_path/licenses/pointwise_flexnet.log`. This will make it easier to find your log file should you encounter any trouble with your server
4. Your Pointwise license server should now be running. If you would like to check the status of the server, choose option *e) Check Status*. If your server is running you should see two messages indicating that both your license manager daemon, `LMGRD`, and your vendor daemon, `PWID`, are UP.
5. Select option *x) Exit* to exit the `LICENSE_CONTROL.SH` script.

## Running Pointwise

Once you have a license server available, you can run Pointwise by one of the following methods:

### Windows

- Select *Start, All Programs, Pointwise, Pointwise V16, Pointwise V16.03*, or
- Double-click on the Pointwise shortcut on your desktop, or
- Double-click a Pointwise native file (`.pw`) to launch Pointwise automatically with that file, or
- Double-click a Pointwise Glyph script file (`.glf`) to launch Pointwise automatically and run that script.

### Linux

- In the `pwi_home_path` directory, use the following command at the command prompt:

```
./pointwise
```

### Mac

- Browse in the Finder for `pwi_home_path/Pointwise/`. Double-click on the Pointwise icon.
- In a terminal window, change to the `pwi_home_path/Pointwise/` directory. Execute the following command at the command prompt:

```
open Pointwise
```

## Silent Installations (Windows/Linux/Mac)

You can perform a silent or background installation by running the platform installer (for example, "`pw-win32.exe`") on the command line with the following options:

- "`platform-installer`" `-r <file>` generates a response file
- "`platform-installer`" `-i silent -f <file>` runs silently while generating a response file on another system

An install log will be generated in the Pointwise folder after completion.

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## 2.6 Pointwise Quick Installation Guide

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### Running Pointwise with a LAN or Remote Server

If you will be running Pointwise on a machine that is **not** the Pointwise license server, you will need to do the following:

1. Make sure that your machine is on the same LAN as the Pointwise license server or connected to the server through a VPN connection. You may also access a remote server without a VPN connection by simply ensuring that open ports exist on your workstation and the remote server to enable communication between them.
2. Install Pointwise on your machine using the installation instructions provided above. It will not be necessary to configure or start a Pointwise license server on your machine.
3. Create and set an environment variable that will contain the location of the license server Pointwise should use.

#### Windows

In *Control Panel, System, Advanced*, create the environment variable PWID\_LICENSE\_FILE and set it equal to the path to the license file, the license server name, or the license server IP address. If setting PWID\_LICENSE\_FILE equal to a license server name or IP Address, make sure to place an @ before the name or IP Address. Examples:

- PWID\_LICENSE\_FILE= @My\_Server\_Name
- PWID\_LICENSE\_FILE= @My\_Server\_IP\_Address
- PWID\_LICENSE\_FILE= C:\Program Files\Pointwise\licenses\pointwise\_flexnet.lic

#### Linux/Mac

Create a new file named *.flexlmrc* in your home directory. In this file, you will need to point your machine at the location of the license file or the Pointwise license server. You can do this by placing **one** of the following lines in the *.flexlmrc* file, making sure that you substitute your own server name, IP address, or license file path:

- PWID\_LICENSE\_FILE= @My\_Server\_Name
- PWID\_LICENSE\_FILE= @My\_Server\_IP\_Address
- PWID\_LICENSE\_FILE= /usr/local/Pointwise/licenses/pointwise\_flexnet.lic

### Transitioning to a New License Server

If you currently have a license server running on your workstation and wish to move to using a new version of Pointwise, you will need to transition to using the new license server associated with it. The steps within this section will help you to make this transition easily.

#### Stop the Pointwise License Server (Windows)

1. Go to *Start, All Programs, Pointwise, License Management, Imtools*. (Users running V16.01 or prior will find Imtools under *Start, All Programs, Pointwise, Pointwise V16.XX, Imtools*.)
2. Select the service for Pointwise in the Server List field of the *Service/License File* tab. This step is only necessary if there are other services running on your server.
3. Select the *Start/Stop/ReRead* tab in the LMTTOOLS utility.
4. Press *Stop Server*.

#### Stop the Pointwise License Server (Linux/Mac)

1. Run the shell script called LICENSE\_CONTROL.SH from *pwi\_home\_path*. Run it using the following command at the command prompt:

```
sh ./LICENSE_CONTROL.SH
```

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2. Select option *d) Stop* to stop the server. If multiple servers are running, you may be asked to specify which server you wish to stop from a list.

### **Install Pointwise**

Now that the license server has been stopped you will need to perform a complete installation of Pointwise and its license management software. Instructions can be found in the [Download and Extraction](#) section of this installation guide.

### **Move the Pointwise License File**

If you had a version of Pointwise prior to V16.02 installed, your license file will need to be moved due to directory structure changes in V16.02. Once it has been moved, your server can be restarted with the latest version of the Pointwise license management utilities.

1. Go to the *licenses/* folder for the previous version of Pointwise installed on your machine. This folder will still exist on your machine due to the fact that it contains a file or files that you created or placed there -- your license and log files.
2. Copy the Pointwise license and log files from the old *licenses/* folder into the *pwi\_home\_path/licenses/* folder for your new installation.

### **Reconfigure the Pointwise License Server (Windows)**

1. You are now ready to reconfigure your Pointwise server. You will need to go back to the LMTOOLS utility to do this. Go to *Start, All Programs, Pointwise, License Management, Lmtools*.
2. Select the *Config Services* tab.
3. In the *Path to the lmgrd.exe file* field, select *Browse*. Use the file browser to go to *pwi\_home\_path\flexnet\win32*. Select the file *lmgrd.exe* and press *Open*. This will place the full path to the file in the *Path to the lmgrd.exe file* field.
4. In the *Path to the license file* field, select *Browse*. Use the file browser to go to *pwi\_home\_path\licenses\*. Select the file *pointwise\_flexnet.lic* and press *Open*. This will place the full path to the file in the *Path to the license file* field.
5. In the *Path to the debug log file* field, select *Browse*. Use the file browser to go to *pwi\_home\_path\licenses\*. Enter the filename *pointwise\_flexnet.log* and press *Open*. This will place the full path to the new log file in the *Path to the debug log file* field.
6. Make sure the box *Use Services* is still checked.
7. Make sure the box *Start Server at Power Up* is still checked.
8. Press *Save Service*.
9. Press *Yes* when asked if you want to save the settings for the service called *Pointwise Server*.
10. Select the *Start/Stop/ReRead* tab in the LMTOOLS utility.
11. Press *Start Server*.

### **Reconfigure the Pointwise License Server (Linux/Mac)**

On Linux and Mac platforms, you will simply need to start your server using the full path and filename of the license file's new location. To do so, please follow the instructions in the [Configure and Start the Pointwise License Server \(Linux/Mac\)](#) section.

## 2.8 Pointwise Quick Installation Guide

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