# 2. Installation Instructions -Windows (Download)

First time installation of Gridgen is fairly simple. It mainly involves downloading a complete version of Gridgen from the Pointwise website then extracting and running files from the downloaded archive. This type of installation is generally performed by users who are evaluating Gridgen.

A typical Gridgen installation will result in the following layout of data (approximately 150 MBytes) in the *gridgen\_home\_path* folder:

- doc/ This directory contains the Gridgen User Manual, Glyph Reference Manual, Tutorial Workbook, and Gridgen Release Notes and Installation Instructions in PDF and HTML formats in the pdf/ and help/ subdirectories respectively. PDF files may be viewed and printed using Adobe Acrobat Reader. HTML files may be viewed by pressing **Help** within Gridgen.
- examples/ This folder contains Gridgen (.gg), database (.dba), and Glyph script (.glf) files for tutorials and other examples of Gridgen usage.
- licenses/ This directory is where we strongly recommend that you install your license file.
- utils/ This directory contains Glyph scripts that perform various utility functions.
- win32/ Your Gridgen, license manager, and scripting executables, as well as library files are installed here within subdirectories.

#### 2.1 Planning Your Installation

Installation planning on workstations running the Windows operating system is fairly minimal. You should perform a first time installation on the workstation on which you will also run Gridgen's license server. On any other workstation on your network on which you will run Gridgen, you will need to install only Gridgen, not the Gridgen license server.

#### 2.2 First Time Installation

There are five steps in a first time installation:

- 1. Download zipped Gridgen file for your platform from the Pointwise website.
- 2. Extract files from the zip archive.
- 3. Run setup.exe.
- 4. Install the Gridgen license file.
- 5. Start the license server.

If you have licensed a Native CAD Reader (NCR), there will be two additional steps:

- 6. Install an NCR license file.
- 7. Start the NCR server.

#### 2.2.1 Gridgen Zip File Extraction

In a temporary directory, unzip the downloaded gg-win32.zip file using your favorite zip file utility. Once you have extracted all files from gg-win32.zip, you should see a directory listing containing various installation files, including setup.exe.

Name 🔺	Size	Туре
🜉 gg-win32.zip	41,600 KB	WinZip File
🛄 data1.cab	292 KB	WinZip File
👼 data1.hdr	148 KB	HDR File
📮 data2.cab	33,581 KB	WinZip File
🛅 doc		File Folder
🛄 engine32.cab	387 KB	WinZip File
👼 gg_lm.sh	20 KB	SH File
👼 layout.bin	1 KB	BIN File
🛐 Setup.bmp	93 KB	Paint Shop Pro 6 Im
👼 setup.boot	314 KB	BOOT File
🔄 setup.exe	96 KB	Application
📴 setup.ini	1 KB	Configuration Settings
👼 setup.inx	174 KB	INX File
🖬 setup.skin	224 KB	SKIN File

## 2.2.2 Running Setup.exe

Double-click setup.exe to begin the InstallShield Wizard for Gridgen that will lead you through the installation process.

Press **Next>** once the Welcome screen for the Gridgen InstallShield Wizard appears.



The next screen asks you to read and confirm your understanding of Gridgen's Right To Use License. Press the **I accept...** button after you have read and agreed to the terms of the Right To Use License.

Press Next>.

<ul> <li>RIGHT TO USE LICENSE</li> <li>DEFINITIONS.</li> <li>(a) "Licensed Software" means any computer program(s) supplied by Pointwise, Inc. ( PWI) to Licensee under a valid Purchase Order or Contract, whether in object code, reconfigurable binary, or any other form; video media and training aids; and any backup or other copies, updates, derivative works, modifications, enhancements, and extensions thereof.</li> <li>(b) "Documentation" means user manuals, documentation binders, release notes, installation notes, written utility programs and other written or graphic materials related to the Licensed Software and all copies thereof.</li> <li>(c) "Licensed Product(s)" means the Licensed Software and Documentation.</li> <li>(d) "Maintenance Period" means the first calendar year of a perpetual license or 12 months for an annual license.</li> <li>LICENSE. PWI grants to Licensee a non-exclusive, non-transferable license to use the Licensed</li> <li>I accept the terms of the license agreement</li> <li>I do not accept the terms of the license agreement</li> </ul>	icense Agreement Please read the following lice	nse agreement carefully.
		RIGHT TO USE LICENSE 1. DEFINITIONS. (a) "Licensed Software" means any computer program(s) supplied by Pointwise, Inc. ( PW/I to Licensee under a vail Purchase Order or Contract, whether in object code, reconfigurable binary, or any other form; video media and training aids; and any backup or other copies, updates, derivative works, modifications, enhancements, and extensions thereof. (b) "Documentation" means user manuals, documentation binders, release notes, installation notes, written utility programs and other written or graphic materials related to the Licensed Software and all copies thereof. (c) "Licensed Product(s)" means the Licensed Software and Documentation. (d) "Maintenance Period" means the first calendar year of a perpetual license or 12 months for an annual license. 2. LICENSE. PWI grants to Licensee a non-exclusive, non-transferable license to use the Licensed I accept the terms of the license agreement I do not accept the terms of the license agreement

Next, select the folder on your workstation into which Gridgen's files will be installed. This folder is referred to as *gridgen\_home\_path*. By default Gridgen is installed in C:\Program Files\Pointwise\GridgenV15. You may choose another folder by pressing the **Change...** button. The Setup program will create the destination folder if it does not yet exist.

Pressing the **Next >** button confirms your choice of destination folder.

Gridgen Version		×
Choose Destination Location Select folder where setup will	n nstall files.	
	Install Gridgen/15 to: C.\Program Files\Pointwise\GridgenV15	Change
InstallShield	< <u>B</u> ack <u>Next&gt;</u>	Cancel

The fourth installation screen that appears allows you to choose the components to install from the zip files in your temporary directory. The three choices are:

Program Files - These are Gridgen's executable and related files. You will need these files in order to run Gridgen.

FLEXIm - These are Gridgen's license managers. If your Gridgen licenses are being served from another workstation at your site you do not need to install the FLEXIm component.

Docs - Gridgen's on-line help and printable PDF user manual are included here.

Press the **Next>** button after choosing the components to be installed.

Gridgen Version	×
Select Components	
Select the components setup	rill install.
	Select the components you want to install, and deselect the components you do not want to install.
InstallShield	< Back Next > Cancel

Next you must select the Program Folder in which Gridgen's program icons will be installed. The default folder is GridgenV15.

Press the **Next >** button after you select the Program Folder.



Now the InstallShield Wizard has enough information to begin installation. Press **Next>** to start installation.



The progress indicator provides status on the file copying process.

Gridgen Version		×
Setup Status		
	GridgerV15 Setup is performing the requested operations.	
	Installing C.\\Pointwise\GridgenV15\examples\tutorial\dbdom\dbdom.gg	
	29%	
	<b>X</b>	
InstallShield		Cance

This completes the extraction of files from the temporary directory. The InstallShield Wizard will display a window with information about the new manner in which environment variables are handled in Gridgen Version 15 versus previous versions.

Gridgen Version		×
Information Please read the following text.		
Ą	Gridgen Environment Variable Information	
	NOTES ON GRIDGEN ENVIRONMENT VARIABLES This file can be found in the \$GRIDGEN_HOME\README.TXT The default location is C:\Program files\Pointwise\GridgenV15\README.TXT Versions of Gridgen prior to V14 relied heavily on the use of environment variables to locate various files such as the tutorials, the help files, etc. With this release and future releases, no environment variables are necessary when using the default directory layout. CONFLICTS WITH PREVIOUS RELEASES 	
InstallShield	< Back	Cancel

Your Gridgen installation is now complete and you may proceed to the next part of the process: installing a license file. Press **Finish** to exit the InstallShield Wizard.



When your installation is complete you will find a GridgenV15 icon on your desktop. Double clicking this icon will start Gridgen Version 15 (assuming that a license file has been installed and the license server is running).



Your Start menu also contains four new entries under Start, Programs, Pointwise, GridgenV15.



- GridgenV15 executes Gridgen Version 15.
- Help opens your web browser and loads Gridgen's on-line help.
- LMTOOLS runs the LMTOOLS application for Gridgen's license management.
- NCR Tools runs the Native CAD Reader License Tool application for NCR license management.

Since your installation is now complete, you may now go to the temporary directory specified in <u>Section</u> 2.2.1 and remove the temporary files extracted there.

#### 2.2.3 Install a License File

Gridgen uses a license manager called FLEXIm. In order for Gridgen to run you must install a *license file*. This file, only a few lines long, encodes information about your Gridgen license including the license dura-

tion, number of licensed processes, and any optional features. We generate the license file for you based on information that you supplied to us about your workstation, namely the *host name* and the *host ID*.

Evaluation sites should have already received an email containing a license file which should be saved in the *gridgen\_home\_path*/licenses folder as pointwise\_flexnet.lic. We recommend that you do not change the license file name from pointwise\_flexnet.lic.

## 2.2.3.1 Licensed Native CAD Readers

For licensed Native CAD Readers (NCR), Gridgen uses an additional license manager and server. To run your Gridgen NCR license server, you must install an *NCR license file*. This license file is based on the *NCR Host ID* which happens to be the same as the *Host ID* for Windows platforms.

Evaluation sites which signed up to evaluate a Native CAD Reader should have received an email containing both Gridgen and NCR license files after applying for the Gridgen evaluation. Both of these license files should be saved in the *gridgen\_home\_path*/licenses folder. These files, pointwise\_flexnet.lic and pointwise\_ncr.dat, will be used used in the FLEXIm and NCR license managers respectively. We strongly recommend that you do not rename these files.

## 2.2.4 Start the Gridgen License Server

#### 2.2.4.1 Single FLEXIm Server

In this section, setting up a Gridgen license server for a system with **NO PREVIOUSLY INSTALLED FLEXLM-BASED SOFTWARE** will be covered. Please be aware that if you have multiple FLEXIm software packages on your server you will have to set up multiple FLEXIm services (see <u>Section 2.2.4.2</u>). Starting Gridgen's license server requires you to create a FLEXIm service via the following procedure

- 1. In the Start menu, go to All Programs, Pointwise, GridgenV15. Right-click on LMTOOLS and choose *Run as Administrator*.
- 2. Click on the Service/License File tab and select Configuration using Services.



- 3. Click on the Config Services tab.
  - a. Change the Service Name by highlighting the existing contents of the field and typing in your new service name. We recommend using a name such as Gridgen FLEXlm Server to delineate this new service from any new FLEXlm service that may be added later.
  - b. Set Path to the Imgrd.exe file to gridgen\_home\_path\win32\flexlm\lmgrd.exe.

- c. Set Path to the license file to gridgen\_home\_path\licenses\pointwise\_flexnet.lic.
- d. Set Path to the debug log file to gridgen\_home\_path\licenses\pointwise\_flexnet.log. (FLEXIm will create this log file if it does not yet exist)
- e. Select Use Services.
- f. If you would like Gridgen's license server to be started automatically each time you restart your computer select Start Server at Power Up.
- g. Press the Save Service button.

e Edit Mode Help		
ervice/License File   System Sel	tings   Utilities   Start/Stop/Reread   Server Status   Ser	ver Diags Config Services Borrowing
Configure Service Service Name	Gridgen FLEXLM Server	Save Service Remove Service
Path to the Imgrd.exe file	C:\Program Files\Pointwise\GridgenV15\win32\	Browse
Path to the license file	C:\Program Files\Pointwise\GridgenV15\license	Browse
Path to the debug log file	C:\Program Files\Pointwise\GridgenV15\license	Browse View Log Close Log
🔽 Start Serve	r at Power Up 🔽 Use Services	

4. Clicking on the Service/License File tab will show the new service that was just created.

LMTOOLS by Globetrotter Software http://www.globetrotter.com
File Edit Mode Help
Service/License File   System Settings   Utilities   Start/Stop/Reread   Server Status   Server Diags   Config Services   Borrowing
Services allow FLEXLM Servers to run in the background
Server List
C Configuration using License File
Configuration using Services      Gridgen FLEXLM Server

- 5. To manually start the server click on the Start/Stop/Reread tab.
  - a. Make sure that Gridgen FLEX1m Server is highlighted.
  - b. Press the **Start Server** button and watch for the confirmation message **Server Start Successful** in the status bar.

LMTOOLS by Macrovision Corporation http://www.macrovision.com	_ 🗆 ×
File Edit Mode Help	
Service/License File System Settings Utilities Start/Stop/Reread Server Status Server Diags Config Services Borrowii	ng
FlexIm license Services installed on this computer	
Start Server       ReRead License File         Advanced settings >>       Force Server Shutdown         NDTE: This box must be checked to shut down a license server	
when licenses are borrowed.	

- 6. To verify that the license file has been installed correctly and that the license server is operating properly click on the Server Status tab.
  - a. Select List All Active Licenses.
  - b. Press the **Perform Status Enquiry** button.
  - c. Read the results of the status query from the text output pane.

MTOOLS by Globetrotter Software http://www.globetro	tter.com
File Edit Mode Help	
Service/License File [ System Settings ] Utilities [ Start/Stop/Ret	ead Server Status Server Diags Config Services Borrowing
Helps to monitor the status of network licensing activities	- Options
Display Everything C List All Active Licenses	Individual Daemon
Perform Status Enquiry	Server Name
License file(s) on urchin: C:\Program \licenses\gridgen_flexlm.lic:	Files\Pointwise\CridgenV15
urchin: license server UP (MASTER) v8	. 0
Vendor daemon status (on urchin):	
gridgend: UP v8.0	<b></b>
Using License File: C:\Program Files\Pointwise\GridgenV15\lic	enses\gridgen_flexIm.lic

#### 2.2.4.2 Multiple FLEXIm License Servers

FLEXIm has become a popular license server to use for many commercial software packages. It is not uncommon to have more than one commercial software package on a system that uses FLEXIm. If your system already has FLEXIm, installing a license server for Gridgen is a simple case of creating a new service in FLEXIm. The following steps show how to create a new service in FLEXIm.

1. In the Start menu, go to All Programs, Pointwise, GridgenV15. Right-click on LMTOOLS and choose *Run as Administrator*.

2. Click on the Service/License File tab. Check to make sure that Configure using Services is selected. Note that there should be one or more services in the display. Each one of these services should correspond to some other software package on your system that uses FLEXIm.

LMTOOLS by Globe File Edit Mode He Service/License File	betrotter Software http://www.globetrotter.com Help 3 Sustem Settings   Utilities   Statt/Stop/Reread   Server Status   Server Diags   Config Services	Eorrowing ]
Services allow	Configuration using License File     Configuration using Services      FLEXLM Service 1     FLEXIm Service 2	

- 3. Click on the **Config Services** tab. The name of the new service will need to be specified so that another software's information is not overwritten. For the above example, two services already exist with the names FLEXIm Service 1 and FLEXIm Service 2. So, easily enough the service for Gridgen could be labeled FLEXIm Service 3. However, a more descriptive name is advised.
- 4. Follow Steps 3b 3g from <u>Section 2.2.4.1</u> to setup the service for Gridgen.
- 5. Select the Service/License File tab and check to see that the new service created appears in the display box.
- 6. To start the new server, follow Steps 5 6 from <u>Section 2.2.4.1</u>. Before doing so, make sure that the service selected is the newly created service.

#### 2.2.5 Start the NCR License Server

If you are evaluating a Native CAD Reader, you will need to start the NCR Server to enable the Reader. To start the NCR Server, follow this procedure.

1. In the Start menu, go to All Programs, Pointwise, GridgenV15. Right-click on NCR Tools and choose *Run as Administrator*.

NCR License Management Tools	<u>– 🗆 ×</u>		
NCR License Management Tools			
NCR Host ID: 00-04-76-EA-DC-A1	]		
Server Status: Stopped			
Hostname: urchin Port: 1542	j		
Start Stop Query			
P <b>⊚I</b> NTWISE°	Exit		

- 2. To manually start the NCR Server, press the **Start** button in the Server Status area. This will bring up the **Start Server** utility. Note that your user account used here must have Administrator privileges to start the license server.
  - a. Set License File to gridgen home path \licenses \pointwise ncr.dat.
  - b. Set Log File to gridgen\_home\_path\licenses\pointwise\_ncr.log. (The NCR server will create this log file if it does not yet exist.)
  - c. Set Username to the username.
  - d. Set Password to the username's password.
  - e. Press the **Ok** button to start the NCR Server.

Note		
Starting the license s automatically be rest need to start the serv	erver installs it as a service. The arted whenever Windows is rest ver again unless you explicitly sto	e server will arted. You will not p the server.
The username enter	ed must have Administrator privile	eges in order to star
ine server. The log r	ine should be specified dailing the	ruii patri name.
cense File	ine anound be specified dailing the	Browse.
cense File	ic anound be specified using the	Browse.
cense File Log File Username	Password	Browse.

3. Server Status: Running (N/M used) will be displayed within NCR Tools to indicate the NCR Server is running. (N is the number of NCR processes being used and M is the number of NCR processes available.)

NCR License Management Tools		
NCR License Management Tools		
NCR Host ID: 00-04-76-EA-DC-A1		
Server Status: Running (0/1 used)		
Hostname: urchin Port: 1542		
Start Stop Query		

4. Press the **Query** button to show the number of NCR processes being used and the number of NCR processes that are available for the current NCR license file.

🎆 NCR License Management Tools 📃 🗐 🗙			
NCR License Management Tools			
NCR Host ID: 00-04-76-EA-DC-A1			
Server Status: Running (0/1 used)			
Hostname: urchin Port: 1542			
Start Stop Query			
P@INTWISE® Exit			

# 2.2.6 Concurrent V14 and V15 Processes

If you are interested in continuing to use V14 after upgrading to V15, please be aware that V14 can be run with a V15 license. However, V15 will not run under a V14 license.

## 2.3 Downloading A Maintenance Release

Periodically new Gridgen versions are released. These minor revisions are called maintenance releases. Usually a maintenance release consists solely of defect corrections to the software. You can determine your current Gridgen version by looking in the Version window in the upper left corner of the Gridgen screen. Maintenance releases are announced at the Pointwise web site and the Gridgen e-mail list.

You can obtain a maintenance release by downloading a new Gridgen executable file from the Maintenance Release Download site in the Pointwise Support area of our website(<u>http://www.pointwise.com/support/dload.shtml</u>).

**Note:** Users upgrading from Gridgen V15.10 to V15.11 or newer versions will need a new Gridgen license file. New license files can be requested online at <u>http://www.pointwise.com/licenses/</u>.

## 2.4 Maintenance Release Installation

If upgrading from Gridgen V15.10 to V15.11 or newer versions, you will need to first stop the Gridgen V15.10 license server and the NCR license server using the LMTOOLS and NCR Tools utilities respectively. More information on stopping these servers can be found in Sections 4.6 - 4.7 of the *License Management for Windows* document found online at <a href="http://www.pointwise.com/library/">http://www.pointwise.com/library/</a>.

Copy to tape, disk, or an archived .zip file the contents of *gridgen\_home\_path*. This should be done in case a problem is encountered during maintenance release installation.

Unzip the gridgen\_win32.zip archive to gridgen\_home\_path. This will replace the file in gridgen\_home\_path/win32/bin called gridgen.exe with the latest version. Occasionally, other files that need to be updated for a maintenance release may also be extracted in addition to the gridgen.exe executable.

Restart your Gridgen license server (and NCR Server, if applicable) once the zip file has finished extracting to *gridgen\_home\_path*.

**Note:** If upgrading to Gridgen V15.11 or newer versions, you will need to configure and start the server with the new Gridgen V15.11 or newer version of the LMTOOLS utility (<u>Section 2.2.3</u>) and your new license file (<u>Section 2.2.3</u>) before running Gridgen again.

# 2.5 On-Line Help Updates

Periodically Gridgen's on-line help and other miscellaneous files are updated. Help updates are announced at the Pointwise web site and the Gridgen e-mail list.

On the ftp site you will find a file called help\_update\_n.zip, where n is replaced by the maintenance release number. The file is an archive containing updated HTML files for the on-line help and various other updated files. Some of these include updated PDF and image files for the documentation. You may download this file using the same techniques used to download a Gridgen maintenance release.

Once the help update has been downloaded you may install it using the following procedure.

- 1. Open help\_update\_n.zip using WinZip.
- 2. Extract files to the gridgen\_home\_path directory

## 2.6 Running Gridgen

Simply double click on the Gridgen shortcut on the desktop or press Start, All Programs, Pointwise,

GridgenV15, GridgenV15. Note that Gridgen opens a DOS window first. This window will contain any messages or output from Gridgen. Pressing the Enter key after exiting Gridgen closes this window.

#### 2.7 Uninstalling

Use Start, Settings, Control Panel, Add/Remove Programs to uninstall Gridgen.

## 2.8 Troubleshooting

#### 2.8.1 Graphics Anomalies

Verify that your graphics card fully supports 3D OpenGL hardware acceleration and that you have the most current display drivers for your card. Also, compare your screen resolution settings to the minimum required listed under Gridgen's Hardware Requirements in Section 7 of the Release Notes and Installation Instructions. Finally, make sure your card has sufficient VRAM to support your selected screen resolution.

## 2.8.2 NCR Server Start-up Problems

If you encounter difficulties starting your NCR Server, please verify that your Windows system environment variable TTF\_LIC\_ETHER is set to TRUE. This environment variable is typically set for you during the installation process. To check or set this system environment variable, go to Start, Settings, Control Panel, System, Advanced, Environment Variables. Please note that users of Windows 95/98 will have to check or set this environment variable manually within their autoexec.bat file.