

CATIA Composer R2015x

Installation, Configuration and Licensing Guide



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Overview

Welcome to the Composer Installation, Configuration and Licensing Guide. This guide describes how to install and configure Composer applications, and provides detailed information regarding server-based licensing.

The following table outlines the tasks required to install and configure Composer:

Chapter	Task	Contents
<i>Installation</i>	<i>About Installation Files</i>	This section describes the two different types of installation files available for 32- and 64-bit Windows installations.
	<i>Installing the Software Interactively</i>	This section describes all of the steps necessary to install the software interactively using a wizard.
	<i>Installing the Software from the Command Line</i>	This section describes all of the steps necessary to install the software from the command line. Doing this is recommended when installing Composer on many computers.
	<i>Command-Line Options and Installable Composer Products</i>	This section describes the options and product combinations that you can specify when installing from the command line.
<i>Configuration</i>	<i>Sharing Application Preferences</i>	This section describes how to share Composer user options (application preferences).
	<i>Sharing Default Document Properties</i>	This section describes how to share default document properties.
	<i>Specifying the Data Path File</i>	This section describes how to specify your data path file.
<i>Licensing</i>	<i>About Licensing</i>	This section provides background information about the Composer licensing system.
	<i>Obtaining a Composer License</i>	This section explains how to obtain a Composer server-based license file before setting up the license manager.
	<i>About the Composer License Server Package</i>	This section provides information about the Composer license server package, which contains all the components required to install and configure your Composer license server.
	<i>Setting Up a License Server Package</i>	This section explains how to set up a license server.
	<i>Configuring a License Server on Windows</i>	This section explains how to configure a license server on Windows.
	<i>Configuring a License Server on Solaris</i>	This section explains how to configure a license server on Solaris.
	<i>Configuring Three-Server Redundancy</i>	This section explains how to implement a three-server redundancy (triad) configuration, where three computers operate in conjunction to improve license availability.
	<i>Running Composer the First Time</i>	This section explains what users should do when running a Composer application for the first time.

Chapter	Task	Contents
	<i>Troubleshooting: Restoring the Connection with the License Server</i>	This section explains what to do if a warning message appears when launching the application (standalone or server-based license), indicating that the connection with the license server has been lost and is trying to be restored.

What's New?

This section describes the new and enhanced functionality related to Composer installation, configuration and licensing.

New Functionality

Internet Explorer 11 Support Internet Explorer is now supported. See [Browser Requirements for Composer, Sync and Enterprise Sync](#) and [Browser Requirements for Composer Player and Composer Player Pro](#).

Enhanced Functionality

Removed Functionality

Customizing Preferences

User Assistance

System Requirements

This topic discusses system requirements for Composer products.

The following topics are discussed:

Installation Pre-requisites

This section describes what you should do prior to installing Composer products.

Prior to performing installations of Composer products, you need to do the following:

- Install the latest Windows service pack (<http://www.microsoft.com>) for your operating system.
- Install the latest driver available for your video card.

System Requirements for Composer, Sync and Enterprise Sync

This section describes the supported operating systems and hardware requirements for Composer, Sync and Enterprise Sync.

Supported Operating Systems for Composer, Sync and Enterprise Sync

This section describes the supported operating systems for installing Composer, Sync and Enterprise Sync.

Starting with V6R2014x, Microsoft Windows XP is no longer supported for Composer, Sync and Enterprise Sync.

Composer, Sync and Enterprise Sync can only be installed on 64-bit operating systems.

64-bit (x64 Edition) Composer, Sync and Enterprise Sync support the following operating systems:

- Microsoft Windows 8 64-bit
- Microsoft Windows 7 64-bit
- Microsoft Windows Vista 64-bit
- Microsoft Windows Server 2003 64-bit
- Microsoft Windows Server 2008 64-bit

Browser Requirements for Composer, Sync and Enterprise Sync

This section lists the required browser to use Composer, Sync and Enterprise Sync.

To be able to use all of Composer, Sync and Enterprise Sync features, either of the following versions of Internet Explorer must be installed on your computer:

- Internet Explorer 11
- Internet Explorer 10
- Internet Explorer 9
- Internet Explorer 8

Hardware Requirements for Composer, Sync and Enterprise Sync

The table below lists the recommended and minimum hardware requirements for Composer, Sync and Enterprise Sync:

Hardware	Recommended Hardware	Minimum Hardware
Disk Drive	3 GB minimum free space is required to store program executables (including all importers), program data, usage environment, and paging space.	3 GB minimum free space is required to store program executables (including all importers), program data, usage environment, and paging space.
Network Adaptor	An active Ethernet adapter is required for licensing purposes.	An active Ethernet adapter is required for licensing purposes.
Processor	Intel [®] Core™ 2 Duo (or similar)	Intel Pentium [®] 4 (or similar)
Memory (RAM)	2 GB	512 MB
Keyboard	A specific keyboard compatible with the selected installation locale might be required for national language support.	A specific keyboard compatible with the selected installation locale might be required for national language support.
Display	Recommended resolution for Windows [®] workstations is 1280x1024. 16-bit color or higher graphics mode required, with 32-bit color recommended.	Recommended resolution for Windows workstations is 1280x1024. 16-bit color or higher graphics mode required, with 32-bit color recommended.
Graphics Adaptor	A graphics adapter with 3D OpenGL acceleration is required for optimal performance. AMD (AMD FirePro™) and NVIDIA (NVIDIA Quadro [®] FX) are highly recommended. OpenGL 3.2 or higher is required for some advanced rendering effects.	A graphics adapter with 3D OpenGL acceleration is recommended to ensure performance. AMD and NVIDIA are recommended. Frame rates and interactivity will be significantly reduced if no acceleration is available.
Pointing Device	A 3-button mouse is recommended for usability reasons.	A 3-button mouse is recommended for usability reasons.
Optional Components and Features	SpacePilot™, SpaceNavigator™, SpaceExplorer™, SpaceBall™, and SpaceMouse™ from 3Dconnexion [®] can be used, in addition to the mouse, to perform graphic manipulations (zoom, pan, rotate, etc.). Necessary drivers are delivered with the device.	SpacePilot, SpaceNavigator, SpaceExplorer, SpaceBall, and SpaceMouse from 3Dconnexion can be used, in addition to the mouse, to perform graphic manipulations (zoom, pan, rotate, etc.). Necessary drivers are delivered with the device.

System Requirements for Composer Player and Composer Player Pro

This section describes the supported operating systems and hardware requirements for Composer Player and Composer Player Pro.

Supported Operating Systems for Composer Player and Composer Player Pro

This section describes the supported operating systems for installing Composer Player and Composer Player Pro.

Microsoft Windows XP is still supported for Composer Player and Composer Player Pro.

Composer Player and Composer Player Pro are available with both 64 and 32-bit installations.



Note: With 64-bit installations, the Composer Player ActiveX and the Composer Player are installed in 32-bit as well as 64-bit, and the Adobe Reader plug-in is installed in 32-bit.

Supported Operating Systems for 64-bit (x64 Edition) Composer Player Products

64-bit (x64 Edition) Composer Player and Composer Player Pro support the following operating systems:

- Microsoft Windows 8 64-bit
- Microsoft Windows 7 64-bit
- Microsoft Windows XP Professional 64-bit
- Microsoft Windows Vista 64-bit
- Microsoft Windows Server 2003 64-bit
- Microsoft Windows Server 2008 64-bit

Supported Operating Systems for 32-bit Composer Player Products

32-bit Composer Player and Composer Player Pro support the following operating systems:

- Microsoft Windows 8 32-bit
- Microsoft Windows 7 32-bit
- Microsoft Windows XP Professional 32-bit
- Microsoft Windows Vista 32-bit
- Microsoft Windows Server 2003 32-bit
- Microsoft Windows Server 2008 32-bit

Browser Requirements for Composer Player and Composer Player Pro

This section lists the required browsers to use Composer Player and Composer Player Pro.

To be able to use all of Composer, Sync and Enterprise Sync features, either of the following versions of Internet Explorer must be installed on your computer:

- Internet Explorer 11
- Internet Explorer 10
- Internet Explorer 9
- Internet Explorer 8

Hardware Requirements for Composer Player and Composer Player Pro

The table below lists the recommended and minimum hardware requirements for Composer Player and Composer Player Pro:

Hardware	Recommended Hardware	Minimum Hardware
Disk Drive	50 MB minimum free space is required to store program executables (.exe, .ocx, Adobe Reader [®] plug-in), program data, usage environment, and paging space.	50 MB minimum free space is required to store program executables (.exe, .ocx, Adobe Reader plug-in), program data, usage environment, and paging space.
Network Adaptor	An active Ethernet adapter is required for licensing purposes (Player Pro only).	An active Ethernet adapter is required for licensing purposes (Player Pro only).
Processor	Intel Core 2 Duo (or similar)	Intel Pentium 4 (or similar)
Memory (RAM)	2 GB	512 MB
Keyboard	A specific keyboard compatible with the selected installation locale might be required for national language support.	A specific keyboard compatible with the selected installation locale might be required for national language support.
Display	Recommended resolution for Windows workstations is 1280x1024. 16-bit color or higher graphics mode required, with 32-bit color recommended.	Recommended resolution for Windows workstations is 1280x1024. 16-bit color or higher graphics mode required, with 32-bit color recommended.

Hardware	Recommended Hardware	Minimum Hardware
Graphics Adaptor	A graphics adapter with 3D OpenGL acceleration is required for optimal performance. AMD (AMD FirePro) and NVIDIA (NVIDIA Quadro FX) are highly recommended. OpenGL 3.2 or higher is required for some advanced rendering effects.	A graphics adapter with 3D OpenGL acceleration is recommended to ensure performance. AMD and NVIDIA are recommended. Frame rates and interactivity will be significantly reduced if no acceleration is available.
Pointing Device	A 3-button mouse is recommended for usability reasons.	A 3-button mouse is recommended for usability reasons.
Optional Components and Features	SpacePilot, SpaceNavigator, SpaceExplorer, SpaceBall, and SpaceMouse from 3Dconnexion can be used, in addition to the mouse, to perform graphic manipulations (zoom, pan, rotate, etc.). Necessary drivers are delivered with the device.	SpacePilot, SpaceNavigator, SpaceExplorer, SpaceBall, and SpaceMouse from 3Dconnexion can be used, in addition to the mouse, to perform graphic manipulations (zoom, pan, rotate, etc.). Necessary drivers are delivered with the device.

Other Requirements

This section describes other requirements for Composer features.

User Assistance Requirements

The browser-based user assistance portal and search engine require the following:

- Either of the following:
 - On Microsoft Windows 7 64-bit: 32-bit versions of both Microsoft Internet Explorer 9 or 10 and Oracle Java plug-in version 7 (enabled)
 - On Microsoft Windows 8 64-bit: 32-bit versions of both Microsoft Internet Explorer 10 and Oracle Java plug-in version 7 (enabled)
- On all supported operating systems: 32-bit versions of both Firefox ESR 17 and Oracle Java plug-in version 7 (enabled)
- 64-bit Oracle Java Runtime Environment (JRE) 7



Note: Ensure that only one version of JRE is installed.



Important: The search engine provided in the user assistance portal is a java applet. If it does not work, there may be several JRE-related causes. For example:

- your Java security options may not be properly configured to allow the use of JRE in your browser,
- or the version of JRE installed on your computer may be incompatible with a use of a java applet on a local installation of the user assistance. In particular, you should be aware that JRE1.7.45 introduced a regression, documented in Oracle's bug database: http://bugs.sun.com/view_bug.do?bug_id=JDK-8027396. This regression makes the search engine in the user assistance portal unusable when it is accessed locally (using file:).)

As a bypass, you could set up an http:\\ server for the user assistance.

File Import Requirements

Depending on the file formats you import into Composer, Sync and Enterprise Sync, different requirements might apply.

For example, if you import SolidWorks[®] files, you must satisfy the minimum requirements for your version of SolidWorks (see <http://www.solidworks.com/sw/support/SystemRequirements.html>).



Important: SolidWorks stops support of Windows XP from 2013 onwards. Therefore, if you are running Composer with Windows XP, you may encounter compatibility issues importing data from SolidWorks 2013.

Software Prerequisite for Composer SolidWorks Plug-in

The software prerequisites for Composer SolidWorks Plug-in are as follows:

- SolidWorks 32-bit is required for Composer SolidWorks Plug-in 32-bit.
- SolidWorks 64-bit is required for Composer SolidWorks Plug-in 64-bit.

Software Prerequisite for Playing Composer Experience in 3DVIA Studio

3DVIA Studio 2.14.398 (V6R2013 FD01) or later is required to play a Composer experience published to 3DVIA Studio.



Note: For more information on 3DVIA Studio, see <http://www.3dvia.com/studio/>.

Installation

This section describes all the steps and procedures required to install the Composer product.

About Installation Files

Composer and Sync support 64-bit Windows installations only. Composer Player supports both 32- and 64-bit Windows installations. Ensure that you have the correct installation file for your operating system.

- 64-bit installation files have an x64- prefix and a .msi extension. For example:
`x64-CATIAComposerFull-R2015x.msi`
- 32-bit installation files do not have a prefix and have a .exe extension. For example:
`CATIAComposerPlayer-R2015x.msi`

Installing the Software Interactively

When you are installing Composer on a single computer, it is simpler to perform the interactive installation. A wizard guides you step-by-step through the installation.

1. To start the wizard:
 - If you have an installation file (.exe for 32-bit computers or .msi for 64-bit computers), double-click the installation file.
 - If you have a CD, insert the disk into your computer disk drive. If the wizard does not start automatically, double-click `autostart` in the top-level folder on the CD.

When the wizard starts, a message box appears, indicating that the wizard is extracting files to your computer. Wait until this operation is completed.

2. When the wizard Welcome screen appears, follow the instructions on each page of the wizard.

Installing the Software from the Command Line

You can perform a command-line installation when you are installing Composer on many computers. You can specify a silent installation to avoid prompts.

Before you begin: To perform a command-line installation, you must have a .msi installation file.

- If you are installing Composer Player and have a .exe file instead of .msi, perform step 1 of the procedure below.
- If you do have a .msi file, go directly to step 2 of the procedure below.
 1. **Optional:** Optional: If you have a .exe, extract the .msi as follows:
 - a. Double-click the .exe file to start the installation wizard. Stop at the Welcome screen (do not proceed with the installation).

- b. Using Windows Explorer, navigate to your temporary files folder, typically: `C:\Documents and Settings\\Local Settings\Temp`.
- c. Copy the newly created `.msi` file to another folder. The file name consists of random letters and numbers, such as `17c434a.msi`.



Tip: Sort the Temp folder by **Date Modified** to easily locate the `.msi` file.

- d. Cancel the installation wizard.
2. Open a command prompt window and run the Microsoft Installer executable `msiexec.exe`.



Tip: To display syntax information in the command prompt window, type `msiexec` and press **Enter**.

3. A number of options are available to customize the command-line installation. In addition, you can indicate which Composer products to install. Run the appropriate command to install with the options and product combinations of your choice.




Important: For details on the options to customize the command-line installation, see [Command-Line Options and Installable Composer Products](#).

For example, to silently install the 64-bit Composer and Sync products:

```
msiexec /i x64-CATIAComposerFull-R2015x.msi /qn
ADDLOCAL=ForAll,PlugIns,PlugInAcrobat,2DDocuments,InterOps,CatiaV5,
Parasolid,SeemageSync,SeemagePublisher,ForMVP,PlugInSW,PLMOnly,
APISamples,Forx64Only
LAUNCHSEEMAGE=0
```

where:




<code>/i</code>	Installs (or configures) a product.
<code>x64-CATIAComposerFull-R2015x.msi</code>	The name of the Composer package (<code>.msi</code>) file. If you have a <code>.exe</code> instead of a <code>.msi</code> , see the Pre-requisites section in this topic.
<code>/qn</code>	Performs a silent installation by displaying no user interface.  Note: The Composer installation displays a graphical window while installing CATIA V5 components. This window dismisses automatically. For a faster installation, it is recommended to minimize this window when it appears.
<code>ADDLOCAL, LAUNCHSEEMAGE</code>	See Command-Line Options .

Command-Line Options and Installable Composer Products

You can specify a number of options to customize the command-line installation. In addition, you can specify which Composer products to install.


Command-Line Options

You can specify the following options to customize the command-line installation.

Option	Description
INSTALLDIR	Specifies the installation folder for Composer. Use quotes around the folder name. For example: INSTALLDIR="c:\Program Files\CATIAComposer"  Note: If omitted, the default is: C:\Program Files\Dassault Systemes\CATIAComposer\<version>
ADDLOCAL	Specifies the Composer products to install. See Installable Composer Products .
LANGINSTALLED	Specifies which Composer language resources (user interface, help files) to use. Specify one of the following: <ul style="list-style-type: none"> • ENU – English. This is the default when LANGINSTALLED is not specified. • FRA – French • DEU – German • CHS – Chinese (Simplified) • KOR – Korean • JPN – Japanese • ITA – Italian • RUS – Russian  Note: All language resource files are installed no matter what is specified for LANGINSTALLED. Users can change the language from the Composer Application Preferences – General page.  Note: To set the default language for all users, set the following registry key: HKLM\Software\Dassault Systemes\CATIAComposer\Preferences\InstallLangID where InstallLangID is a locale ID string: English=1033, French=1036, etc.
LAUNCHSEEMAGE	Specifies whether to start the Composer application after the installation completes: <ul style="list-style-type: none"> • 0 - Do not launch the application. • 1 - Launch the application. For example: LAUNCHSEEMAGE=0

Installable Composer Products

You can specify which Composer products to install by listing them using the ADDLOCAL command-line option. Specify products separated by commas (,).

 **Note:** Only the following combinations of products are supported.

To install:	Specify:
Composer & Sync, 64-bit	ADMO=Full,Plgns,PlgData,2Dmodels,TrnQs,CIA5,Basic,Seag,Sync,Seag,Plgns,FWP,Plgns,VMOnly,PSaps,Fr60Only
Composer only, 64-bit	ADMO=Full,Plgns,PlgData,2Dmodels,TrnQs,CIA5,Basic,Seag,Plgns,FWP,Plgns,VMOnly,PSaps,Fr60Only
Sync only, 64-bit	ADMO=Full,Plgns,PlgData,2Dmodels,TrnQs,CIA5,Basic,Seag,Plgns,SyncOnly,Plgns,VMOnly,PSaps,Fr60Only

Configuration

This section describes how to configure the Composer product.

Sharing Application Preferences

Composer user options (application preferences) are stored in files that can be local or on a server.

Use “data paths” to connect a Composer user environment to preferences stored on a server. `datapath.xml` files are stored in the “User” folder, typically in the local Windows user `~user\Documents\CATIAComposer\User` folder (folder location and name may vary by Windows OS version).



Note: For more information about data paths, refer to the *Composer User's Guide*.

1. Specify your data-path file on the Composer Data Paths application preferences page. The default is `DataPath.xml` in your User folder.

This location is stored in the following registry setting: `HKEY_CURRENT_USER\Software\Dassault Systemes\Composer\Preferences\DataPath.PathFolderDataPath`

2. To have multiple users on the same machine reference the same data-path file, define a `HKEY_LOCAL_MACHINE` key:

`HKEY_LOCAL_MACHINE\Software\Dassault Systemes\Composer\Preferences\DataPath.PathFolderDataPathInstall`

This `HKEY_LOCAL_MACHINE` key is not defined by default. The `HKEY_CURRENT_USER` value overrides `HKEY_LOCAL_MACHINE`.



Note: The full paths for these keys are operating-system dependent.

Sharing Default Document Properties

Default document properties are stored as registry settings (not in files).

They are stored in the following location: `HKEY_LOCAL_MACHINE\Software\Dassault Systemes\Composer\Preferences\`

1. Use the Composer application to set up the desired default document properties.
2. Export this registry folder to apply to other systems.

Specifying the Data Path File

Specify your data path file on the Data Paths page.

The default is `DataPath.xml` in your User folder. This location is stored in the following registry setting:


```
HKEY_CURRENT_USER\Software\Dassault Systemes\Composer\Preferences\  
DataPath.PathFolderDataPath
```



Note: For more information about data paths, refer to *Composer User's Guide*.

To have multiple users on the same machine reference the same data path file, define a HKEY_LOCAL_MACHINE key:

```
HKEY_LOCAL_MACHINE\Software\Dassault Systemes\Composer\Preferences\  
DataPath.PathFolderDataPathInstall
```

This HKEY_LOCAL_MACHINE key is not defined by default. The HKEY_CURRENT_USER value overrides HKEY_LOCAL_MACHINE.



Note: The full paths for these keys are operating-system dependent.

Licensing

This section describes Composer server-based licensing.

About Licensing

This topic provides background information about the Composer licensing system.

FlexNet Publisher

Composer applications use FlexNet Publisher® (formerly FLEXlm™) from Flexera Software™ (formerly Acresto and Macrovision) for license management. Composer supports all FlexNet functions, such as server redundancy and license borrowing.

Complete details about FlexNet Publisher are available in the *FlexNet Publisher License Administration Guide*, which is available on the Composer installation media (in the `License_Daemons` folder).



Note: For end-user licensing information, such as installing standalone (node-locked) licenses and borrowing licenses, see the *Composer User's Guide*.

License-Related Information

Depending on the license you have, specific cases might arise.

- When both Sync and Enterprise Sync license features are available, the graphical user interface uses a Sync feature and the command-line interface uses an Enterprise Sync feature.
- Composer Player and Composer ActiveX products automatically use a PlayerPro license when available. To disable this behavior (to run Composer Player or Composer ActiveX without PlayerPro capabilities), see *Player User's Guide*.

Licensing Policy

One FlexLM license is used for each different set of the following data ("same user", "same host", "same display"), where:

- "user" is the login of the user who runs Composer.
- "host" is the name of the physical computer on which the Composer process is run.
- "display" is the name of the display on which the Composer application is displayed.

Each time one of the three pieces of data changes when Composer is run, an additional license is used.

As standalone licenses are uncounted, using a floating license is required in order to count the different required licenses.

Following are two examples of this licensing policy.

Example 1

- A user U1 first runs Composer on his computer, H1, with its own display, D1: U1, H1, D1.

- Then, this user U1 runs Composer on another computer, H2, with its own display, D2: U1, H2, D2.

There are two distinct sets of data: U1, H1, D1 and U1, H2, D2. Therefore, two licenses of Composer are used.

Example 2

A user U1 runs Composer on his computer, C1, but uses different remote displays: D1 and D2.

There are two distinct sets of data: U1, C1, D1 and U1, C1, D2. Therefore, two licenses of Composer are used.

Obtaining a Composer License

Before setting up the license manager, you must obtain a Composer server-based license file.

If Composer is installed on the license server computer, you can request a license using Composer. Otherwise, you should contact your sales representative to obtain a license.

Request a license using Composer

If Composer is installed on the license server computer, you can request a license using Composer.

1. Run Composer.

When no license is installed, the **Composer – Protection** dialog box appears.

2. Click **Install a License**.

3. Proceed according to your situation:

- If the **Register License** dialog box has a **Request License File by E-mail** button, click the button, provide your professional contact information, and send the e-mail.
- Otherwise, contact your sales representative to request a license and provide your host ID (**Hostid** on the **Register License** dialog box).

Once you have a license file, it is recommended that you put it in a folder dedicated to Dassault Systèmes applications.



Important: If a Flexera license manager is already running on the server, it might be necessary to specify a port number on the SERVER line of your license file:

```
SERVER server_name server_hostid [port]
```



Note: Arguments in square brackets [...] are optional.

Request a license to your sales representative

If Composer is not installed on the license server computer, you should contact your sales representative to request a license. In this case, you should send the host ID of the computer that will run the license server.

1. To get the host ID, run the following command:

Windows	Type <code>ipconfig/all</code> in a Command Prompt window. The host ID is the Physical Address of the Ethernet adapter Local Area Connection (MAC address).
Solaris	Type <code>hostid</code> .
Windows or Solaris	Use the Flexera <code>lmutil</code> tool: <code>type lmutil lmhostid</code> .

For details about obtaining host IDs, see *FlexNet Publisher License Administration Guide: Hostids for Supported Platforms*.

If you are setting up a triad configuration (see Configuring Three-Server Redundancy), send the host IDs for each of the three computers.

2. Contact your sales representative to request a license and send the host ID.

About the Composer License Server Package

The Composer license server package contains all the components required to install and configure your Composer license server.

Where to Find License Server Packages

Packages for supported platforms are available from different locations.

- The Composer installation media in the `License_Daemons` folder
- The Composer resource center on <http://www.3ds.com>.
- (SolidWorks customers only) The "FLEXlm Server Install" link on the SolidWorks Customer Portal.

Supported Operating Systems

The Composer license manager supports a number of operating systems.

- Microsoft Windows XP, 32-bit and 64-bit
- Microsoft Windows Vista, 32-bit and 64-bit
- Microsoft Windows 7, 32-bit and 64-bit
- Microsoft Windows Server 2003, 32-bit and 64-bit
- Microsoft Windows Server 2008, 32-bit and 64-bit
- Microsoft Windows Server 2008 R2, 32-bit and 64-bit
- Sun Solaris 7, 32-bit and 64-bit
- Sun Solaris 8, 32-bit and 64-bit
- Sun Solaris 9, 32-bit and 64-bit
- Sun Solaris 10, 32-bit and 64-bit

Contents of the License Server Package

The server package is a compressed ZIP file containing a number of files.

File	Description
<code>SEEMAGE.exe</code>	The Composer vendor daemon. The vendor daemon tracks which users have licenses, whether they are checked out, and how many licenses are available.

File	Description
	The vendor daemon (<code>SEEMAGE.exe</code>) and the license server manager (<code>lmgrd.exe</code>) together comprise the license server.
<code>lmgrd.exe</code>	The FlexNet Publisher license server manager. The license server manager: <ul style="list-style-type: none"> • Handles the initial contact from client computers to the license server. • Starts and maintains the vendor daemons (<code>SEEMAGE.exe</code>). • Passes requests, such as license checkout requests, to vendor daemons (<code>SEEMAGE.exe</code>).
<code>lmutil.exe</code>	Command-line utilities for license management, such as starting the license server and checking status. See the <i>FlexNet Publisher License Administration Guide</i> for details.
<code>lmtools.exe</code>	(Windows only.) Graphical utility for license management. Provides the same capabilities as <code>lmutil.exe</code> . See the <i>FlexNet Publisher License Administration Guide</i> for details.
<code>Read_Me_First.txt</code>	Specifies the FlexNet version and directs the reader to this document.

Setting Up a License Server Package

To set up a licenser server, you either need to upgrade an existing FlexNet Publisher license server, or to install a new license server.

Upgrade a License Server

If you are already running a FlexNet Publisher license server, you should upgrade it.

Depending on the version of FlexNet Publisher you are running, perform either of the following operations:

- If you are already running a FlexNet Publisher 11.9 license server and are upgrading from Composer V6R2012 or earlier, you must update your vendor daemon (`SEEMAGE.exe`). Replace your existing `SEEMAGE.exe` with the new one and restart the license server.
- If you are running a version of FlexNet Publisher older than version 11.9, replace all old files, including `SEEMAGE.exe`, with new ones and restart the license server.

Install a New License Server

If you are not yet running a FlexNet Publisher license server, you should install a new one.

1. On the computer to be used as the license server, extract the contents of the server package ZIP file to a folder of your choice.
2. **Optional:** The vendor daemon (`SEEMAGE.exe`) and license manager (`lmgrd.exe`) should be in the same folder. If this is not possible, modify your license file to include the path to `SEEMAGE.exe` on the VENDOR line:

```
VENDOR SEEMAGE [vendor_daemon_path] [[OPTIONS=] options_file_path]
[[PORT=] port]
```



Note: Arguments in square brackets [...] are optional.



Note: Specify absolute paths and surround all paths with quotation marks. For example: `VENDOR SEEMAGE "C:\Composer\Daemons\SEEMAGE.exe"`

There is no installation process associated with the license server (no installation wizard to run). You can now configure your license server.

Configuring a License Server on Windows

This section describes how to configure a license server on Windows.

Configuring a License Server on Windows

If your license server runs on Windows, you need to configure it in a specific way.

1. Run `lmtools.exe`.
The **LMTOOLS** dialog box appears.
2. Click the **Config Services** tab.
3. In the **Service Name** box, type `Seemage`.



Note: This name is arbitrary. For example, **Service Name** could be `Composer`, but `Seemage` is recommended to match the vendor daemon name.

4. In the **Path to the lmgrd.exe file** box, specify the full path to the license manager daemon. For example: `C:\FlexLM\Flexera\lmgrd.exe`.



Important: Paths cannot exceed 255 characters.

5. In the **Path to the license file** box, specify the full path to the folder where license files are located. For example: `C:\FlexLM\Licenses`.



Important: Do not end the folder path with a backslash (`\`).

By specifying a folder instead of a license file, the license manager registers all license files located in this folder. You do not need to modify this setting if you receive a new license file or if you have license files for multiple products.

6. In the **Path to the debug log file** box, enter the full path to the log file that will be created by the license manager. For example: `C:\FlexLM\lmgrd.log`.
7. To run the daemon automatically at computer start-up, select **Use Services** and then select **Start Server at Power Up**.
8. Click **Save Service** and then click **Yes** to confirm.
9. If the server computer has a Windows firewall, add two exceptions (in other words, allow the following programs or features through Windows Firewall):
 - a. Program exception for `SEEMAGE.exe`.
 - b. Port exception for the license server:

Name: Arbitrary name, such as “Composer”.

Port number: 27000 (default) or as specified on the `SERVER` line in the license file.

TCP



Note: Instead of the Port exception, you can add a Program exception for `lmgrd.exe`.

Starting the Server on Windows

To start the license server on Windows, follow the steps detailed below.

1. In the **LMTOOLS** dialog box, click the **Start/Stop/Reread** tab.
2. Verify that **Seemage** is selected in the list of services. If it is not, go to the **Config Services** tab, select **Seemage**, and then return to the **Start/Stop/Reread** tab.
3. To disable license manager control from other locations, click **Advanced settings >>**, and under **Start Server Options**:
 - a. Select **Restrict lmdown to work only from node where lmgrd is running**.
 - b. Select **Disable lmdown utility, use task manager**.
 - c. Select **Disable 'lmremove' of license file**.
4. Click **Start Server**.

The status bar displays a message indicating that the server has successfully started.

Checking Server Status on Windows

To verify that the license manager is running, you need to follow the steps detailed below.

1. In the **LMTOOLS** dialog box, click the **Server Status** tab.
2. Click **Perform Status Enquiry**.

Server status is displayed in the window.

```

-----
Status
-----
Flexible License Manager status on Mon 6/6/2011 12:36

[Detecting lmgrd processes...]
① License server status: 27000@xxxxxx
  ② License file(s) on xxxxxx: C:\FlexIM\Licenses\3DVC 2010-05-07 16-20-20 -
2012-05-05 - Dassault Systèmes - FB30.lic:

  ③ sd7w500mon: license server UP (MASTER) v11.9

  ④ Vendor daemon status (on xxxxxx):

      SEEMAGE: UP v11.9

  ⑤ Feature usage info:

Users of InternalDS: (Total of 3 licenses issued; Total of 0 licenses in use)
Users of NoDayCount: (Total of 3 licenses issued; Total of 0 licenses in use)
Users of NoDistributor: (Total of 3 licenses issued; Total of 0 licenses in use)
-
-
-

```

The table below describes the messages returned by the license manager.

Index number	Description
1	License server port number and computer name. The port number is 27000 (default) or specified on the SERVER line of the license file.
2	License file locations, which can be a list of file paths, folders, or network folders.
3	The <code>lmgrd.exe</code> process status and the FlexNet Publisher version number. The process might not start if: <ul style="list-style-type: none"> • Another <code>lmgrd.exe</code> process with the same port number is already running. • The server name is not correct on the SERVER line in the license file.
4	Lists vendor daemon statuses. The SEEMAGE daemon might not start if: <ul style="list-style-type: none"> • <code>SEEMAGE.exe</code> is located in a different folder than the license manager <code>lmgrd.exe</code> and the VENDOR line of the license file does not include the path to <code>SEEMAGE.exe</code>. • A SEEMAGE process was already running when you started the license server. End any existing SEEMAGE processes and restart the server.
5	Lists all features (valid, expired, or not usable) for each vendor daemon attached to the license manager. The list also specifies information about the licenses used, borrowed, or available.

Configuring a License Server on Solaris

This section describes how to configure a license server on Solaris.

Configuring a License Server on Solaris

To configure a license server on Solaris, you use the `lmgrd` utility.

Use the `lmgrd` utility to manage the `lmgrd` license manager daemon.

See the *FlexNet Publisher License Administration Guide* for complete information.

Starting the Server on Solaris

To start the license server on Solaris, follow the steps detailed below.

1. Run the following command to launch the daemon:

```
lmgrd [-c license_file_list]
      [-l [+]debug_log_path]
      [-2 -p] [-local] [-x lmdown]
      [-x lmremove] [-v] [-z] [-help]
```



Note: Arguments in square brackets [...] are optional.

Example:

```
lmgrd -c license.lic -l composerlog.log
      -2 -p -local -x lmremove
```



Note: For all files, specify full paths with double quotes (“”). Separate multiple license files with colons (:).



Tip: You can specify directories where license files are located instead of individual license files.

See the *FlexNet Publisher License Administration Guide* for complete `lmgrd` command option descriptions. A few recommended command options are described in the table below.

<code>lmreread</code>	If the license manager is already running, reloads license files without stopping the <code>lmgrd</code> process.
<code>-2 -p</code> <code>-local</code>	Strongly recommended. Prevent accessing the license manager from any computer other than the server.
<code>-l</code> (lowercase “L”)	Strongly recommended. Displays the log file, which can provide valuable information to help resolve server startup problems.

2. **Optional:** To start the license server each time the server computer boots, add the command line to the server’s initialization script.

Checking Server Status on Solaris

To verify that the license manager is running, use the command described below.

Use the `lmutil lmstat` command to verify server status.

<code>lmutil lmstat -help</code>	Displays usage information.
<code>lmutil lmstat -a</code>	Displays all information from all servers.
<code>lmutil lmstat -s SEEMAGE</code>	Displays information for the Composer vendor daemon.
<code>lmutil -help</code>	Displays a list of all lmutil utilities.
<code>lmutil utility_name -help</code>	Displays help on a specific utility.

Configuring Three-Server Redundancy

Composer supports the FlexNet Publisher three-server redundancy (triad) capability, where three computers operate in conjunction to improve license availability. This topic explains how to implement a triad configuration.

See the *FlexNet Publisher License Administration Guide* for details.

1. When requesting your license file, send the hostid for each computer in the triad. Your license file will have three SERVER lines.
2. Configure each license server but do not start the servers.
3. Start each license server.
4. On each client computer, edit the license-manager registry key to specify the three server names:
 - a. Click **Start > Run**.
 - b. Type `regedit` and click **OK**.
 - c. In the Registry Editor, browse to: `HKEY_LOCAL_MACHINE\SOFTWARE\FLEXlm License Manager`
 - d. Double-click **SEEMAGE_LICENSE_FILE**.
 - e. Change **Value data** to: `@name_server1,@name_server2,@name_server3`
 - f. Click **OK** and exit the Registry Editor.

Running Composer the First Time

The first time users run a Composer application, a **Protection** dialog box appears.

Before you begin: Ensure that users know the name of the license server and the port number if not 27000 (the default).

Users should follow the instructions in the Composer online help to connect to a license server. They specify the license server using the following format: `[port_number]@server_name`

Troubleshooting: Restoring the Connection with the License Server

When launching the application (standalone or server-based license), a warning message may indicate that the connection with the license server has been lost and is trying to be restored.

Before you begin: If you are using a floating license, verify with your administrator that the license server is running. Otherwise, if Composer has never been installed on this computer, the problem is probably due to the use of the `LM_LICENSE_FILE` environment variable. In this case, you need to disable the use of this variable.

1. To disable the use of the *LM_LICENSE_FILE* environment variable, double-click the following file:
<Composer_install_dir>\bin\DoNotUseLM_LICENSE_FILE.reg



Note: You must have administrator rights to run the .reg file. This file does not modify the environment variable on your computer, but prevents Composer from using it.

2. Click **Yes** to confirm, and then click **OK**.

You can now try to restart Composer.

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