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Quick Start to Network Administration

Network deployment of this program requires careful planning and execution. This section gives you quick, step-by-step instructions about how to prepare for deployment, set up a license server, and set up and distribute the program.

If you are not familiar with network administration and deployment, you should read the entire Network Administrator's Guide before you attempt to deploy and administer the program over a network.

In this chapter

- How to Prepare for Deployment
- How to Set Up a License Server
- How to Set Up and Distribute the Program
How to Prepare for Deployment

To prepare for a deployment, you need to choose an installation type and a license server model.

How to Choose an Installation Type

When you set up your deployment, you need to choose the type of installation to deploy. In the AutoCAD 2008 Installation wizard, you specify one of the following installation types:

**Network License installation** With this type of installation, you install the program to workstations with the files and registry entries that allow the program to communicate with the Network License Manager. You also define the configuration of the Network License Manager so that the licenses can be accessed. Workstations running the program based on a network installation do not require individual activation. Licensing of this program is managed by at least one license server.

The main advantage is that you can install AutoCAD on more systems than the number of licenses you have purchased (for example, purchasing 25 licenses but installing on 40 workstations). At any one time, AutoCAD will run on the maximum number of systems for which you have licenses. This means you get a true floating license.

**Multi-Seat Stand-Alone installation (Stand-Alone option)** Choose this type of installation for stand-alone installations where a single serial number is used for multiple seats. Multi-seat stand-alone installations do not rely upon a Network License Manager to manage product licenses; however, you can still use the AutoCAD 2008 Installation wizard to create administrative images and create deployments. Registration and activation is more automated for multi-seat stand-alone installations. After the first activation using the multi-seat stand-alone serial number, activation occurs automatically for all workstations based on this deployment, as long as your systems are connected to the Internet.

**Stand-Alone installation (Stand-Alone option)** Choose this type of installation for stand-alone installations where a single serial number is used for a single seat. Like a multi-seat stand-alone installation, you do not use the Network License Manager to manage product licensing, but installation, registration, and activation occurs on each workstation.
If you choose one of the Stand-Alone installation types, you can proceed to the section How to Set Up and Distribute the Program (page 9).

**How to Choose a License Server Model**

If you chose the Network Installation option, you need to decide which license server model to use to distribute the product licenses.

**TIP** If you are deploying a stand-alone or multi-seat stand-alone installation type, you do not use a license server model. Proceed to the How to Set Up and Distribute the Program (page 9) section.

For the network installation, use one of the following license server models:

- **Single license server model.** The Network License Manager is installed on a single server, so license management and activity is restricted to this server. A single license file represents the total number of licenses available on the server.

- **Distributed license server model.** Licenses are distributed across more than one server. A unique license file is required for each server. To create a distributed license server, you must run the Network License Manager on each server that is part of the distributed server pool.

- **Redundant license server model.** You use three servers to authenticate a single license file. One server acts as the master, while the other two provide backup if the master server fails. With this configuration, licenses continue to be monitored and issued as long as at least two servers are still functional. The license file on all three servers is the same. You must install the Network License Manager on each server.

Each of these license server models is described in detail in the *Network Licensing Guide*. It is strongly recommended that you read that guide before you deploy the program. You can find the *Network Licensing Guide* by clicking the Documentation link at the lower left corner of the AutoCAD 2008 Installation wizard and in the Help system.
How to Set Up a License Server

If you are planning to have users run the program using network licenses, you need to use the Network License Manager and the Network License Activation utility.

The Network License Manager helps you configure and manage license servers. The Network License Activation utility helps you get licenses and register them over the Internet.

How to Install the Network License Manager

The Network License Manager is used to configure and manage the license servers.

To install your Network License Manager

1. In the AutoCAD 2008 Installation wizard, click Install Tools and Utilities.
2. On the Welcome to the AutoCAD 2008 Installation wizard page, click Next.
3. Review the Autodesk software license agreement for your country or region. You must accept this agreement to proceed with the installation. Choose your country or region, click I Accept, and then click Next.

   NOTE If you do not agree to the terms of the license and wish to terminate the installation, click Cancel.

4. On the Select the Items to Install page, make sure Network License Manager is selected and click Next.
6. If multiple tools and utilities are selected, click the Network License Manager tab.
7. On the Set Up Network License Manager page, either accept the default installation path (C:\Program Files\Autodesk\NLM\) or click Browse to specify a different path. If you enter a path that does not exist, a new folder is created using the name and location you provide. Click Next.
WARNING Do not install the Network License Manager on a remote drive. When you install the Network License Manager files, you must provide a path to a local drive. You must specify the drive letter; the universal naming convention (UNC) is not supported.

8 On the On Line Access Tools page, click Next to install the Network License Manager and any other selected tools and utilities.

9 When the Installation Complete page displays, click Finish.

How to Install and Use the Network License Activation Utility

With the Network License Activation utility, you can obtain licenses over the Internet, which saves time and effort in setting up a network-licensed version of the program. In addition, you can register your product, get automated support by email if you cannot obtain a license over the Internet, and save and migrate license files automatically.

To install your Network License Activation utility

1 In the AutoCAD 2008 Installation wizard, click Install Tools and Utilities.

2 On the Welcome to the AutoCAD 2008 Installation wizard page, click Next.

3 Review the Autodesk software license agreement for your country or region. You must accept this agreement to proceed with the installation. Choose your country or region, click I Accept, and then click Next.

NOTE If you do not agree to the terms of the license and wish to terminate the installation, click Cancel.

4 On the Select the Items to Install page, make sure Network License Activation Utility is selected and click Next.

5 On the Review - Configure - Install page, click Configure.

6 If multiple tools and utilities are selected, click the Network License Activation Utility tab.
7 On the Set Up Network License Activation Utility page, either accept the default installation path (`C:\Program Files\Autodesk\NLA`) or click Browse to specify a different path. If you enter a path that does not exist, a new folder is created using the name and location you provide. Click Next.

8 On the On Line Access Tools page, click Next to install the Network License Activation Utility and any other selected tools and utilities.

9 When the Installation Complete page displays, click Finish.

To use your Network License Activation utility

1 On the Start menu (Windows), click All Programs (or Programs) ➤ Autodesk ➤ Network License Manager ➤ AutoCAD 2008 Network License Activation Utility.

2 On the Obtain a Network License page, review how this utility works and the requirements for using it, and then click Next.

3 On the Server Information page, enter the product serial number. **NOTE** If you are modifying an existing license file or obtaining a new license for an existing product, your previously entered information might be displayed. Make sure that the serial number that is displayed is the one you want to license. If it is not, enter the correct product serial number.

4 In the License Server Model section, click a license server model. For more information about each license server model, click the ? button.

5 In the Server Host Name box, enter a server host name or click the [...] button to locate the name of each server you plan to use.

6 In the Host ID box, for each server host name you entered in the previous step, click Lookup to have the utility automatically locate the host ID for the server, or enter the host ID manually. **NOTE** If your server has more than one network adapter, select the one that corresponds to a physical network adapter. To determine which adapters are physical, enter `ipconfig /all` at a Windows command prompt and view the Description field above each physical address. If there is more than one physical network adapter, you can use any one of them, as long as it was listed when you ran `ipconfig /all`. Logical devices such as VPN adapters, PPP adapters, and modems may be listed but are not usable for licensing.
7 If you chose Distributed Server in step 4, the Seats box is displayed. In the Seats box, enter the number of seats for each license server, and then click Next.

8 On the Confirm Server Information page, review the server information you entered, and click Next.

9 If the Register and License Your Autodesk Product page is displayed, do all of the following, and then click Next.
   ■ In the This Product is To Be Registered To option, select Company or Individual.
   ■ In the Select Country or Region section, select your country or region of residence.
   ■ In the Is This an Upgrade section, select Yes or No.

10 If the Registration Information page is displayed, enter your registration information, and then click Next.

11 If the Confirm Information page is displayed, review your registration information, and then click Next.

12 If the Connecting page is displayed, click Next to connect to the Internet to obtain your network license.

13 On the Licenses Received page, in the Save License File for [computer name] dialog box, enter the location where you want to save your license file, or click Browse to navigate to the location.

   **NOTE** It is recommended that you save your license file to the location where you installed the Network License Manager.

14 If you have an existing license file from another Autodesk product, select one of the following options:
   ■ Insert the New License Information Into It. Adds the new license information into the existing license file.
   ■ Overwrite the Existing License File. Replaces the entire contents of the existing license file with the new license information. Select this option *only* if you no longer require any part of the existing license file contents.

15 Click Next.
On the License Activation Successful page, click Print to save a printed copy of the license information, or click Done to complete the transaction and exit the Network Activation utility.

How to Configure Your License Server

You configure a license server so that you can manage the Autodesk product licenses you received when you ran the Network License Activation utility. Configure the license server with the lmtools.exe utility.

To configure your license server

You should be logged in with Administrator rights when working with the LMTOOLS utility.

1 Do one of the following:
   ■ Click Start menu (Windows XP & 2000) ➤ All Programs (or Programs) ➤ Autodesk ➤ Network License Manager ➤ LMTOOLS.
   ■ Right-click the LMTOOLS icon (Windows Vista) on the desktop and choose Run As Administrator.

2 In the Lmtools program, on the Service/License File tab, select the Configure Using Services option.

3 Click the Config Services tab.

4 On the Config Services tab, in the Service Name list, select a service name or do one of the following:
   ■ If a service name is selected, verify that it is the one you want to use to manage licenses.
   ■ If no service name exists, enter the service name you want to use to manage licenses.

   NOTE If you have more than one software vendor using FLEXlm® for license management, the Service Name list contains more than one option.

5 In the Path to Lmgrd.exe File box, enter the path to the Network License Manager daemon (lmgrd.exe), or click Browse to locate the file.
   By default, this daemon is installed in the \Program Files\Autodesk Network License Manager folder.
6 In the Path to the License File box, enter the path to your license file, or click Browse to locate the file.

7 In the Path to the Debug Log File box, enter a path to create a debug log, or click Browse to locate an existing log file.

8 To run lmgrd.exe as a service, select Use Services.

9 To automatically start lmgrd.exe when the system starts, select Start Server at Power Up.

10 Click Save Service to save the new configuration under the service name you selected in step 4. Then click Yes.

11 Click the Start/Stop/Reread tab.

12 On the Start/Stop/Reread tab, do one of the following:
   ■ If a service has not yet been defined for Autodesk, click Start Server to start the license server.
   ■ If a service for Autodesk is already defined and running, click ReRead to refresh the Network License Manager with any changes made to the license file or Options file. The license server starts running and is ready to respond to client requests.

13 Close lmtools.exe.

**How to Set Up and Distribute the Program**

Once you have prepared for deployment and you have used the Network License Manager and the Network License Activation utility, you are ready to set up and distribute this program by using the AutoCAD 2008 Installation wizard and choosing a deployment method.

**How to Create a Network Share**

A network share is an installation folder that you make available to users' computers on a network. You point users to this location to install the program. Create a network share that will be used by the AutoCAD 2008 Installation wizard during the creation of a client deployment.
NOTE  You must have Full Control permissions set for your shared folder when you are creating your deployment images. Read permissions are necessary to access the network share and administrative permissions on the workstation where the program is deployed.

To create your network share

1  On the desktop of a network server, create a folder named Autodesk.
2  Right-click the Autodesk folder and click Sharing and Security (or Sharing).
3  In the <folder name> Properties dialog box, Sharing tab, select Share This Folder.
4  Specify a Share Name, such as Autodesk or MyDeployments, if necessary.
5  Click the Permissions button. In the Permissions dialog box make sure Full Control is active. Click OK.
   This is important when creating your deployment images.
6  Click OK to close the Properties dialog box.
7  For each product you plan to install, create a subfolder in the Autodesk folder. Name each folder with the pertinent product name.

How to Use the Installation Wizard to Set Up a Deployment

You can create a deployment directly from the AutoCAD 2008 Installation wizard. From the deployment, users can install the program on their computers.

NOTE  The following procedure illustrates just one of the ways you can set up a deployment. This procedure details a single-server network deployment with a Typical client setup type and no customizations. For further information about setting up deployments, see Use the Installation Wizard to Set Up a Deployment (page 29).

To use the Installation wizard to create a default deployment

1  In the AutoCAD 2008 Installation wizard, click Create Deployments.
2 On the Welcome to the AutoCAD 2008 Installation wizard page, click Next.

3 On the Begin Deployment page, you need to specify the following: a deployment location, a deployment name, and if you want the client installation run in silent mode.

- In the deployment location field, enter an existing shared network location where you want to create an administrative image, or click the [...] button to navigate to a location where there is a shared network location. Users install the program from this location.

  **NOTE** If you do not know how to create a network share, see How to Create a Network Share (page 9).

- In the deployment name field, enter the new deployment's name. The name you enter here is the name of the shortcut your users will access to install the product.

- If you want to prevent users from changing your installation settings when they install the product, select Client Installations Will Be Run in Silent Mode.

Click Next.

4 On the Select the Products to Install page, choose the product you want deploy and click Next.

5 Review the Autodesk software license agreement for your country or region. You must accept this agreement to proceed with the installation. Choose your country or region, click I Accept, and then click Next.

  **NOTE** If you do not agree to the terms of the license and wish to terminate the installation, click Cancel.

6 On the Personalize the Products page, enter your user information and click Next.

The information you enter here is permanent and is displayed in the AutoCAD window (accessed by using Help ➤ About) on your computer. Because you can't change this information later without uninstalling the product, make sure you enter the correct information now.
7 On the Write to Log page, choose to create the following: a network log and/or a client log.

■ When you choose to create a network log file, you also have to specify where the log file is created by entering either a valid UNC (universal naming convention) path or hard-coded path on your network. The network log file is optional.

**NOTE** The folder where the network log resides must be a shared folder where users who install the program have Change permissions. Otherwise, successes or failures for user installations cannot be written to the log file.

■ Choose whether you want a client log file created.

For more information regarding log files, refer to Specify Log File Locations (page 33).

Click Next.

8 On the Review - Configure - Create Deployment page, click Create Deployment.

By clicking Create Deployment, the wizard creates an administrative image in the shared folder using the deployment options listed in the Current Settings field.

9 On the Deployment Complete page, click Finish.

**To use the Installation wizard to create a configured deployment**

1 In the AutoCAD 2008 Installation wizard, click Create Deployments.

2 On the Welcome to the AutoCAD 2008 Installation wizard page, click Next.

3 On the Begin Deployment page, you need to specify the following: a deployment location, a deployment name, and if you want the client installation run in silent mode.

■ In the deployment location field, enter an existing shared network location where you want to create an administrative image, or click the [...] button to navigate to a location where there is a shared network location. Users install the program from this location.

**NOTE** If you do not know how to create a network share, see How to Create a Network Share (page 9).
In the deployment name field, enter the new deployment's name. The name you enter here is the name of the shortcut your users will access to install the product.

If you want to prevent users from changing your installation settings when they install the product, select Client Installations Will Be Run in Silent Mode.

Click Next.

4 On the Select the Products to Install page, choose the product you want deploy and click Next.

5 Review the Autodesk software license agreement for your country or region. You must accept this agreement to proceed with the installation. Choose your country or region, click I Accept, and then click Next.

**NOTE** If you do not agree to the terms of the license and wish to terminate the installation, click Cancel.

6 On the Personalize the Products page, enter your user information and click Next.

The information you enter here is permanent and is displayed in the AutoCAD window (accessed by using Help ➤ About) on your computer. Because you can't change this information later without uninstalling the product, make sure you enter the correct information now.

7 On the Write to Log page, choose to create the following: a network log and/or a client log.

- When you choose to create a network log file, you also have to specify where the log file is created by entering either a valid UNC (universal naming convention) path or hard-coded path on your network. The network log file is optional.

  **NOTE** The folder where the network log resides must be a shared folder where users who install the program have Change permissions. Otherwise, successes or failures for user installations cannot be written to the log file.

- Choose whether you want a client log file created.

For more information regarding log files, refer to Specify Log File Locations (page 33).

Click Next.
8 On the Review - Configure - Create Deployment page, click Configure to make changes to the administrative image.

9 On the Select the Installation Type page, you can choose to make the following configuration changes:

- Typical - Installs the most common application features and allows you to make the following changes to optional tools:

  | Express Tools | Contains AutoCAD support tools and utilities. |
  | Materials Library | Contains over 300 professionally built materials to apply to a model. |

- Custom - Installs only the application features that you select from the Select Features To Install list:

  | CAD Standard | Contains tools for reviewing design files for compliance with your standards. |
  | Databases | Contains database access tools. |
  | Dictionaries | Contains multilanguage dictionaries. |
  | Drawing Encryption | Allows you to use the Security Options dialog box to protect a drawing with a password. |
  | Express Tools | Contains AutoCAD support tools and utilities. |
  | Fonts | Contains program fonts. (True Type fonts are automatically installed with the program.) |
  | Materials Library | Contains over 300 professionally built materials to apply to a model. |
Contains animated demos, exercises, and sample files to help users learn new features.

Contains a tool for moving a stand-alone license between computers.

Allows you to migrate custom settings and files from previous releases. For more information, see Migrate Custom Settings.

Allows you to view and edit the paths of externally referenced files associated with a drawing.

Contains various feature sample files.

Contains product lessons.

Contains Microsoft Visual Basic for Applications support files.

- **Product Installation Path** - Specifies the drive and location where AutoCAD will be installed.

Click Next to proceed with the configuration process.

10 On the Select the License Type page, select Network License and make the following settings: the license server model and the server name where the Network License Manager will run.

- You can choose from one of three license server models, but for this example leave it set to Single License Server.

  **NOTE** For complete instructions on all installation and server types, see Select a License Type (page 34).

- Enter the name of the server that will run the Network License Manager, or click the [...] button to locate the server.
Click Next.

11 On the Select Preferences page, make the following settings:
Choose a Default Text Editor. A text editor is used to edit text files such as PGP and CUS dictionary files. You can accept the default text editor or select one from the list of available text editors. You can also click Browse to locate a text editor that is not listed.

Create a Desktop Shortcut. Choose whether to display the AutoCAD shortcut icon on your desktop. A product icon is displayed on your desktop by default. Clear the check box if you do not want to display the shortcut icon.

Click Next.

12 On the Define Search Paths and File Locations page, click Next.

13 On the Install Additional Files page, click Next.

14 On the Specify User's Workstation Settings, enter a default profile name and click Next.

15 On the Include Service Packs page, click Next.

16 On the Configure InfoCenter Communications Center page, click Next.

17 On the Configure InfoCenter Search Results page, click Next.

18 On the Configure Access to Online Resources page, click Configuration Complete.

19 Click Create Deployment.

20 On the Deployment Complete page, click Finish.

How to Deploy This Program

You can choose from several methods of deploying the program. Network sharing is the default method.

■ Network Share. Users launch the shortcut that you created with the Installation wizard, in step 3 of the procedure How to Use the Installation Wizard to Set Up a Deployment (page 10) (for example: \Server1\Autodesk\deployment\AutoCAD 2008). The program is installed on users' local computers, and a product icon appears on their desktop.
NOTE Users must have Read permissions to access the network share and administrative permissions on the workstation where this program is installed.

- Scripting. See Use Scripts to Deploy the Program (page 63).
- Group Policy Objects (GPOs). See Use Group Policies to Install a Deployment (page 77).
- Imaging Software. See Distribute the Product Using Imaging Software (page 85).
System Requirements

This section contains the system requirements for the location of the administrative image that you create, the network license server, and the client workstation.
System Requirements for This Program

Before you begin installing the program on a network, make sure that your servers and client workstations meet the minimum recommended hardware and software requirements for a deployment.

See the following tables for administrative image, license server, and client workstation system requirements.

### Hardware and software requirements for the location of the administrative image

<table>
<thead>
<tr>
<th>Hardware/Software</th>
<th>Requirement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard disk</td>
<td>750 MB (recommended)</td>
<td>The location where you create the administrative image must be a shared location so that users can access the administrative image.</td>
</tr>
</tbody>
</table>

### Hardware and software requirements for the network license server

<table>
<thead>
<tr>
<th>Hardware/Software</th>
<th>Requirement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Windows Server 2003</td>
<td>The Network License Manager supports Ethernet network configurations only. The redundant license server model is supported only on Windows 2000 Server Edition and Windows 2003 Server.</td>
</tr>
<tr>
<td></td>
<td>Windows XP Professional, Service Pack 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows 2000 Server Edition</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows 2000, Service Pack 4</td>
<td></td>
</tr>
<tr>
<td>Computer/processor</td>
<td>Pentium III or later 450 Mhz (minimum)</td>
<td></td>
</tr>
<tr>
<td>Network interface card</td>
<td>Compatible with existing Ethernet network infrastructure</td>
<td>The Network License Manager supports multiple network interface cards.</td>
</tr>
</tbody>
</table>
### Hardware and software requirements for the network license server

<table>
<thead>
<tr>
<th>Hardware/Software</th>
<th>Requirement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication protocol</td>
<td>TCP/IP</td>
<td>The Network License Manager uses TCP packet types.</td>
</tr>
</tbody>
</table>

### Hardware and software requirements for client workstations

<table>
<thead>
<tr>
<th>Hardware/Software</th>
<th>Requirement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>(32-Bit) Windows® XP Professional, Service Pack 2</td>
<td>It is recommended that non-English language versions of AutoCAD be installed on an operating system with a user interface language that matches the code page of the AutoCAD language. A code page provides support for character sets used in different languages. Whether the Windows operating system is the 32-bit or the 64-bit version is automatically detected when installing AutoCAD. The appropriate version of AutoCAD will be installed. The 32-bit version of AutoCAD cannot be installed on a 64-bit version of Windows.</td>
</tr>
<tr>
<td></td>
<td>Windows XP Home, Service Pack 2</td>
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<td>Windows 2000, Service Pack 4</td>
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<td>Windows Vista Enterprise</td>
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<td>Windows Vista Home Basic</td>
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<td></td>
<td>Windows Vista Starter</td>
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<tr>
<td></td>
<td>(64-Bit) Windows Vista Professional, Service Pack 2</td>
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</tr>
<tr>
<td></td>
<td>Windows Vista Enterprise</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows Vista Business</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows Vista Ultimate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows Vista Home Premium</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows Vista Home Basic</td>
<td></td>
</tr>
<tr>
<td>Web browser</td>
<td>Microsoft Internet Explorer 6.0, Service Pack 1 (or later)</td>
<td>You cannot install AutoCAD if Microsoft Internet Explorer 6.0 with Service Pack 1 (or later) is not installed on the installation workstation. You can download Internet Explorer from the Microsoft website: <a href="http://www.microsoft.com/downloads/">http://www.microsoft.com/downloads/</a></td>
</tr>
<tr>
<td>Processor</td>
<td>Pentium III or IV (Pentium IV recommended) 800 Mhz</td>
<td></td>
</tr>
</tbody>
</table>
## Hardware and software requirements for client workstations

<table>
<thead>
<tr>
<th>Hardware/Software</th>
<th>Requirement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAM</td>
<td>512 MB (recommended)</td>
<td></td>
</tr>
</tbody>
</table>
| Graphics card     | 1024 x 768 VGA with True Color (minimum) | ■ Requires a Windows-supported display adapter.  
■ For graphic cards that support Hardware Acceleration, DirectX 9.0c, or better, must be installed.  
■ Installing from the ACAD.msi file does not install DirectX 9.0c, or later. Manual installation of DirectX is required, in this circumstance, for Hardware Acceleration to be configured. |
|                   | Open GL®-compatible 3D video card (optional) |       |
| Hard disk         | Installation 750 MB |       |
| Pointing device   | Mouse, trackball, or other device |       |
| CD-ROM            | Any speed (for installation only) |       |
| Optional hardware | Printer or plotter  
Digitizer  
Modem or access to an Internet connection  
Network interface card |       |

### Additional recommendations for 3D use

<table>
<thead>
<tr>
<th>Hardware/Software</th>
<th>Requirement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Windows® XP Professional, Service Pack 2</td>
<td>It is recommended that non-English language versions of AutoCAD be installed on an operating system with a user interface language that matches the code page of the Auto-</td>
</tr>
</tbody>
</table>
### Additional recommendations for 3D use

<table>
<thead>
<tr>
<th>Hardware/Software</th>
<th>Requirement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD language.</td>
<td></td>
<td>A code page provides support for character sets used in different languages.</td>
</tr>
<tr>
<td>Processor</td>
<td>3.0 GHz or greater</td>
<td></td>
</tr>
<tr>
<td>RAM</td>
<td>2 GB (or greater)</td>
<td></td>
</tr>
<tr>
<td>Graphics card</td>
<td>128 MB or greater, OpenGL-capable workstation-class</td>
<td>For graphic cards that support Hardware Acceleration, DirectX 9.0c, or better, must be installed. - Installing from the <code>ACAD.msi</code> file does not install DirectX 9.0c, or later. Manual installation of DirectX is required, in this circumstance, for Hardware Acceleration to be configured. For more information about tested and certified graphics cards, visit <a href="http://www.autodesk.com/autocad-graphicscard/">http://www.autodesk.com/autocad-graphicscard/</a>.</td>
</tr>
<tr>
<td>Hard disk</td>
<td>2 GB (in addition to the 750 MB required for installation)</td>
<td></td>
</tr>
</tbody>
</table>
Deploy the Program

In this section, you’ll find more detailed information about using the Installation wizard to create or modify deployments.

In this chapter

- Preliminary Tasks for a Network Deployment
- Use the Installation Wizard to Set Up a Deployment
- Point Users to the Administrative Image
- Uninstall the Program
Preliminary Tasks for a Network Deployment

Installing this program on a network requires careful planning and execution. The deployment checklist gives you a quick summary of the type of information you should be familiar with during your deployments.

**Deployment Checklist**

- You have reviewed the system requirements. You must make sure that your network, servers, and workstations meet the system requirements. See System Requirements for This Program (page 20).

- If your deployment plan involves using imaging software to distribute your program(s) to client workstations, you have reviewed the Distribute the Product Using Imaging Software (page 85) section.

- You have installed and activated any supporting tools and utilities. See Install and Activate Tools and Utilities (page 29).

- Identify where deployments will reside such as a shared folder for each program you plan to deploy. See Create Shared Folders for Your Deployments (page 28).

- You have closed all other programs and disabled anti-virus software. See Minimize Chances of Installation Failure (page 27).

- Specify whether you want to create log files which contain deployment and installation data. See Specify Log File Locations (page 33).

- You understand the type of license you’ve purchased. If you plan a network license deployment, you should also be familiar with the type of license server model you wish to use and the license server name(s). See Select a License Type (page 34).

- You have an idea whether you’ll perform a typical or custom installation. See Select the Installation Type (page 39).
Deployment Checklist

☐ You may want to set search paths to custom files or file locations that may have changed in this release of software. See Define Search Paths and File Locations (optional) (page 43).

☐ Additional files can be included with your deployment, such as drawing files, AutoLISP® routines, or script files. See Install Additional Files (optional) (page 45).

☐ You have checked for service packs that might be available for your product. If a service pack is available, you’ve downloaded it and extracted an MSP file. See Include Service Packs (optional) (page 48).

☐ Live Update notifications let you know when product updates are posted and configuring Communication Center lets users access technical information. See Configure InfoCenter Communication Center (optional) (page 50) and Configure InfoCenter Search Results (optional) (page 52).

☐ You can allow users of the deployed product to access and participate in features like DesignCenter Online, Subscription Center, Customer Error Reporting and the Customer Experience Improvement Program. See Allow Users to Access Online Resources (optional) (page 53).

☐ Using consistent registration data is very important. Make sure you know how you’re going to personalize the program(s) during registration. See Register the Product (page 58).

When you have completed these tasks, you are ready to create a deployment from the Installation wizard.

Minimize Chances of Installation Failure

The installation process of AutoCAD 2008 may stop if some applications, such as Microsoft® Outlook® or virus checking programs, are running when you are creating a deployment. Close all running applications and temporarily disable virus checking utilities.
Create Shared Folders for Your Deployments

Shared folders are required for both network license and multi-seat stand-alone methods of installation. The shared folder (network share) is created before you run the Installation wizard and is where product deployments are stored.

It is recommended that you name the network share folder Deployments on the desktop of the system where you want deployments stored. You can then add subfolders inside the shared Deployments folder that clearly convey the name of product you plan to deploy. This is also beneficial if you plan to deploy multiple products. For example:

```
- Deployments
  - ADT 2007
  - AutoCAD 2007
    - AdminImage
  - Building Systems 2007
  - Inventor 11
  - Revit 9
  - VIZ 2007
```

Any subfolders that are placed inside a shared folder are automatically shared.

**TIP** You must have Full Control permissions set for your shared folder when you are creating your deployment images. Read permissions are necessary to access the network share and administrative permissions on the workstation where the program is deployed.

**To create a shared folder**

1. On a network server, create a folder named Deployments.
2. Right-click the Deployments folder. Click Sharing and Security (or Sharing).
3. In the Properties dialog box, Sharing tab, select Share This Folder.
4. In the Permissions dialog box, click the Permissions button. Make sure Full Control is active. Click OK.
   This is important when creating your deployment images.
5. Click OK to close the Properties dialog box.
6. For each product you plan to install, create a subfolder in the Deployments folder. Name each folder with the pertinent product name.
Install and Activate Tools and Utilities

Several supporting tools and utilities are necessary if you plan to have users run the program(s) with network licenses. Ancillary programs you might install include:

■ Network License Manager
■ Network License Activation Utility
■ CAD Manager Tools
■ SAMreport Lite

Refer to the Network Licensing Guide for detailed information about how to set up your license servers. The Network Licensing Guide is available on the Documentation link of the Installation wizard and in the Help system.

Use the Installation Wizard to Set Up a Deployment

The deployment process is initiated from the Installation wizard. Deployments are created from which users can install the program on their computers. You make choices during the deployment process to create various client deployment images and deployment types that meet user requirements and company needs.

The deployment process lets you do any of the following:

■ Create a deployment.
■ Apply a patch to a deployment.
■ Add customized files to a deployment.
■ Change search paths and file locations.

NOTE Because the deployment process provides you with numerous options for creating and customizing your deployments, there are many deployment pages you need to complete and choices you must make. You should set aside ample time to complete the deployment process in one sitting.
When you initiate the deployment process, you can do the following:

1. Start the Deployment Process (page 30)
2. Create a Deployment (page 31)
3. Enter Personal Information (page 32)
4. Specify Log File Locations (page 33)
5. Select a License Type (page 34)
6. Select the Installation Type (page 39)
7. Define Search Paths and File Locations (optional) (page 43)
8. Install Additional Files (optional) (page 45)
9. Specify User Preferences (optional) (page 46)
10. Include Service Packs (optional) (page 48)
11. Configure InfoCenter Communication Center (optional) (page 50)
12. Configure InfoCenter Search Results (optional) (page 52)
13. Allow Users to Access Online Resources (optional) (page 53)
14. Final Review and Complete Setup (page 56)
15. Modify a Deployment (optional) (page 59)
16. Register the Product (page 58)

**Start the Deployment Process**

Once you have started the Installation wizard, you initiate the deployment process to set up a deployment.

**To start the deployment process**

- In the AutoCAD 2008 Installation wizard, click Create Deployments.
Create a Deployment

A deployment contains a Microsoft Transform (MST) file that modifies the default behavior of the installation program. As you begin a deployment, you need to select a deployment location, choose a deployment name, and specify whether silent mode (page 31) is active for client installations.

Silent mode When silent mode is active and a user initiates the deployment, the installation proceeds without any explicit user input. No dialog boxes are presented that require interaction from the user.

To create a deployment

1 On the Begin Deployment page, enter a deployment location or click the [...] button to browse your drive for a location.

**NOTE** The deployment location should be a shared network folder. To create a shared folder, see Create Shared Folders for Your Deployments (page 28).
2 In the Specify the Deployment Name field, enter the new deployment’s name. The name you enter here is the name of the shortcut your users will access to install the product.

3 If you want to prevent users from changing your installation settings when they install the product, make sure Client Installations Will Be Run in Silent Mode is active.

4 Click Next.

**Enter Personal Information**

The Personalize the Products page is used to personalize the program for your company. The information you enter here is permanent and is displayed in the About *product name* window (accessed by using Help ➤ About) on all workstations that install your deployment. Because you can’t change this information later without uninstalling the product, make sure you enter the correct information now.

You must also enter your product serial number in order to run the product. The product serial number is located on the product packaging. The serial number must contain a three-digit prefix followed by an eight-digit number.
To enter your personal information and serial number

1. On the Personalize the Products page, enter the requested personalization data.

   **NOTE** Although it is required that you enter information in each box on this page, you can enter any information that you want to convey to users who install the deployment.

2. Enter your product serial number.

3. Click Next.

**Specify Log File Locations**

The program has two types of log files with which you can monitor information about deployments and installations.

- **Network log.** The network log file keeps a record of all workstations that run the deployment. On the Write to Log page of the deployment process, you choose whether or not to create a network log file. The log lists the user name, workstation name, and the status of the installation. Refer to this file for status information and details about problems that users may have encountered during installation (for example, low disk space or inadequate permissions). The network log is named with the same name you chose for your deployment. You can specify where the log file is created by entering either a valid UNC (universal naming convention) path or
hard-coded path on your network, for example \MyComputer\Autodesk\AutoCAD 2008.

**NOTE** The folder where the network log resides must be a shared folder where users who install the program have Change permissions. Otherwise, successes or failures for user installations cannot be written to the log file.

- **Client Log.** The client log contains detailed installation information for each workstation. This information may be useful in diagnosing installation problems. The client log is located in the \Temp directory of each client workstation. The client log is named with the same name you chose for your deployment.

**To specify a log file location**

1. While creating a deployment, on the Write to Log page, select the check box next to the Create Network Log box. Enter the name of the folder where you want the network log to be located.
2. If you want to create a client log, select the Create Client Log option.
3. Click Next.

**Select a License Type**

When you set up your deployment, you need to choose the type of installation to deploy based on the type of software license you’ve purchased. You can purchase one of three types of product licenses: network, multi-seat stand-alone, and stand-alone.

**Specify the license type to use during deployment**

**Network License** With this type of installation, you install the program to workstations with the files and registry entries that allow the program to communicate with the Network License Manager. You also define the configuration of the Network License Manager so that the licenses can be accessed. Workstations running the program based on a network installation do not require individual activation. Licensing of this program is managed by at least one license server.

- Choose Network License.
Multi-Seat Stand-Alone license (a single serial number for multiple seats) Registration data is gathered on the Register Today pages. After the first activation using the multi-seat stand-alone serial number, activation occurs automatically for all workstations based on this deployment, as long as your systems are connected to the Internet.
- Choose Stand-Alone License.

Stand-Alone license (a single serial number for a single seat) You do not use the Network License Manager to manage product licensing. For stand-alone installation, you install, register, and activate the program on each workstation.
- Choose Stand-Alone License.

To deploy a network license using a single license server model

1 While creating a deployment, on the Select the License Type page, select the Network License option.

2 Select Single License Server as the License Server Model you want to use with the Network License Manager.
   If you have already used the Network License Manager to create a license server model, you must select the same license server model in this step. If you have not yet used the Network License Manager to create a license server model, make sure that you select the same settings in the Network License Manager that you choose here.
   For detailed information about license server models, see “License Server Models” in the Network Licensing Guide, located in the Help system and on the Documentation link of the Installation wizard.

3 Enter the server name of the server that will run the Network License Manager, or click the [...] button to locate the server. Click Next.
To deploy a network license using a distributed license server model

1 While creating a deployment, on the Select the License Type page, select the Network License option.

2 Select Distributed License Server as the License Server Model you want to use with the Network License Manager. If you have already used the Network License Manager to create a license server model, you must select the same license server model in this step. If you have not yet used the Network License Manager to create a license server model, make sure that you select the same settings in the Network License Manager that you choose here.

   For detailed information about license server models, see “License Server Models” in the Network Licensing Guide, located in the Help system and on the Documentation link of the Installation wizard.

3 Enter the name of one of the servers that will run the Network License Manager, or click the [...] button to locate the server. Click Add to add the server to the Server Pool. Once all the servers are added to the Server Pool list, use the Move Up and Move Down buttons to arrange the servers in the order you want them to be searched by a user’s workstation. You must enter at least two servers. Click Next.
To deploy a network license using a redundant license server model

1 While creating a deployment, on the Select the License Type page, select the Network License option.

2 Select Redundant License Server as the License Server Model you want to use with the Network License Manager.
   If you have already used the Network License Manager to create a license server model, you must select the same license server model in this step. If you have not yet used the Network License Manager to create a license server model, make sure that you select the same settings in the Network License Manager that you choose here.
   For detailed information about license server models, see “License Server Models” in the Network Licensing Guide, located in the Help system and on the Documentation link of the Installation wizard.

3 In the First Server Name field, enter a server name of one server that will run the Network License Manager, or click the [...] button to locate the server. Enter the server names for the remaining two servers that you will use in the redundant server pool. Click Next.
NOTE If you are not sure how to obtain the server host name, see “Plan Your License Server Configuration” in the Network Licensing Guide. The Network Licensing Guide is located in the Help system and on the Documentation link of the Installation wizard.

To deploy a multi-seat stand-alone or stand-alone license

1 While creating a deployment, on the Select the License Type page, select Stand-Alone Installation.

2 Click Next.
Select the Installation Type

As part of making your deployment choices, you select the type of installation that users receive when they install the program, choose which optional tools or features get included, and specify where the product will get installed on each workstation.

- Typical. Installs the most common application features. This option is recommended for most users.

- Custom. Installs only the application features that you select.

You can also choose to include Express Tools and the Material Library with this deployment.

- Express Tools. Express Tools are available in their original form, in English only, and are not supported. No updates have been made to the tools. Double-byte characters are not supported.
Some Express Tools have been integrated into AutoCAD 2008. For a full list of tools that have been integrated, see the FAQ section in the Express Tools Help. You can also get help on each integrated command in the product Help system.

- **Material Library.** The Material Library contains over 300 professionally built materials that you can apply to your models. The library is constructed as a series of tool palettes.

You choose the location where program files are installed on the client workstation in the Product Install Path. To help decide where the product is installed, a chart of drives and disk space is provided.

**To deploy a typical installation, choose optional tools and specify a product location**

1. During the deployment, on the Select the Installation Type page, select the Typical option as the type of installation that you want.

   ![Select the Installation Type](image)

   - **Product Install Path:**
     - C:\Program Files\AutoCAD 2008
   - **Disk space requirements:**
     - | Drive | Size | Available | Required | Total Required | Remaining |
       |-------|--------|----------|-----------|--------------|----------|
       | C     | 69.2 GB| 35.3 GB  | 252 MB    | 292 MB       | 35.1 GB  |
       | D     | 105 GB | 106 GB   | 251 MB    | 251 MB       | 105 GB   |
       | E     | 33.9 GB| 2.67 GB  | 0 bytes   | 0 bytes      | 2.67 GB  |
       | H     | 69.2 GB| 6.63 GB  | 0 bytes   | 0 bytes      | 6.63 GB  |
2 Clear the check box for the Express Tools option if you do not want to include the tools in this deployment. Express Tools are installed by default.

3 If you want to install the Material Library, select the check box for the Material Library option.
   The Material library option is cleared by default.

4 Enter the path on the client workstation where you want to install the program, for example C:\Program Files\AutoCAD 2008, or click the [...] button to specify the install location.
   The Disk Space Requirements chart lets you review available drives and disk space.

5 Click Next.

To deploy a custom installation, choose optional tools and specify a product location

1 During the deployment, on the Select the Installation Type page, select the Custom option as the type of installation that you want.
2. From the Select Features To Install list, select the features that you want to install.

Your choices are as follows:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD Standard</td>
<td>Contains tools for reviewing design files for compliance with your standards.</td>
</tr>
<tr>
<td>Databases</td>
<td>Contains database access tools.</td>
</tr>
<tr>
<td>Dictionaries</td>
<td>Contains multilanguage dictionaries.</td>
</tr>
<tr>
<td>Drawing Encryption</td>
<td>Allows you to use the Security Options dialog box to protect a drawing with a password.</td>
</tr>
<tr>
<td>Express Tools</td>
<td>Contains AutoCAD support tools and utilities.</td>
</tr>
<tr>
<td>Fonts</td>
<td>Contains program fonts. (True Type fonts are automatically installed with the program.)</td>
</tr>
<tr>
<td>Autodesk Impression</td>
<td>Allows access to Autodesk Impression commands. If Autodesk Impression is not currently installed, you can choose to install the program.</td>
</tr>
<tr>
<td>Toolbar</td>
<td>Contains animated demos, exercises, and sample files to help users learn new features.</td>
</tr>
<tr>
<td>Portable License Utility</td>
<td>Contains a tool for moving a stand-alone license between computers.</td>
</tr>
<tr>
<td>Migrate Custom Settings</td>
<td>Allows you to migrate custom settings and files from previous releases. For more information, see Migrate Custom Settings.</td>
</tr>
<tr>
<td>Component</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Reference Manager</td>
<td>Allows you to view and edit the paths of externally referenced files associated with a drawing.</td>
</tr>
<tr>
<td>Samples</td>
<td>Contains sample files for various features. Sample are part of a default installation. (Visual Lisp samples are not installed by default.)</td>
</tr>
<tr>
<td>VBA Support</td>
<td>Contains Microsoft Visual Basic for Applications support files.</td>
</tr>
</tbody>
</table>

If, after making feature changes, you decide you want the original selections, click the Restore Defaults button.

3 Enter the path on the client workstation where you want to install the program, for example C:\Program Files\AutoCAD 2008, or click the [...] button to specify the install location.

The Disk Space Requirements chart lets you review available drives and disk space.

4 Click Next.

### Define Search Paths and File Locations (optional)

On the Define Search Paths and File Locations page, you can modify the default search paths and the location of some program files. You might want to modify the default settings for the following reasons:

- If your CAD environment uses a file (such as a customization file or plug-ins) other than the default file that's installed with the program, you can point to that file now and avoid having to add it at each workstation.

- Some default file locations may have changed in this version of the program. You can use this page if you have an earlier version of the program, and you want to move the files to the same file location as your earlier version of the program.
NOTE You can also modify the search paths and file locations for individual workstations after you have installed the program. You do this by using the Options dialog box. For more information, see Specify Search Paths and File Locations in the User’s Guide.

To use the default program settings for search paths and file locations

- While creating a deployment, on the Define Search Paths and File Locations page, click Next.

To modify the default program settings for search paths and file locations

1. While creating a deployment, on the Define Search Paths and File Locations page, in the Define Search Paths, File Names, and File Locations list, click the plus sign (+) to the left of a search path or file location to select and expand it.

   ![Define Search Paths and File Locations](image)

2. Select an item in the list and do any of the following:
   - To browse to a file location, click Browse.
   - To add a new entry to the currently selected search path or file location, click Add.
   - To remove an entry from the currently selected search path or file location, click Remove.
To move a selection up or down in the list, click Move Up or Move Down.

**NOTE** The availability of these buttons depends on the item that you selected in the previous step.

3 When you finish specifying search paths or file locations, click Next.

**Install Additional Files (optional)**

On the Install Additional Files page, when you click Browse, you can specify additional files to include with a deployment. By default, these files are installed in the program’s installation directory on client workstations when the deployment is run. You can install files to multiple directories if desired.

You can perform the following operations:

- Specify additional files (such as drawing files, AutoLISP® routines, or script files) to include with your deployment.
- Install different types of files to different workstation directories.
- Add subfolders under the installation folder (for example, a folder called LSP to contain custom AutoLISP routines).
- Add files to the same location as program files (for example, add sample drawings for a project).
- Add files to the root of the installation directory.

**NOTE** It is recommended that you install these files to a location within the program’s directory structure. You cannot install files with the same file name as an installed program file. For example, you cannot add a file named `acad.cui`.

**To install additional files**

1 While creating a deployment, on the Install Additional Files page, set the location where file will get installed.
2 Do any of the following:

- Click [...] to open the Add Files dialog box, where you can select files to add to the installation directory.
- Click Add Folder to create a new folder in the installation directory.
- Click Add Drive to create a new drive name in the installation directory.
- Click Remove to delete a file, folder, or drive from the installation directory.

3 Click Next.

Specify User Preferences (optional)

On the Specify User Preferences page, you can specify whether installations based on this deployment can proceed if Microsoft Internet Explorer is not installed, specify a default profile name, choose to display the product shortcut icon on the desktop, or create a custom desktop shortcut.
To specify user preferences settings

1 While creating a deployment, on the Specify User Preferences page, clear the check box for the Internet Explorer option if you do not require Microsoft Internet Explorer to be installed before AutoCAD is installed.

2 In the Default Profile Name box, specify a default profile name that will be current for all users who run the deployment.

3 Clear the check box for Create an AutoCAD 2008 Desktop Shortcut if you do not want the product shortcut icon to appear on the user's desktop.
4 If you want to create a custom desktop shortcut, specify a shortcut name and any parameters, such as switches that will call profiles, startup scripts, etc.

5 Click Next.

Include Service Packs (optional)

During the deployment process, you can choose to include service packs that have been posted for your product.
When you include a service pack, you can also specify how it will be handled. You can choose from the following:

- **Append the Service Pack onto the Deployment.** When you append a service pack, the service pack is applied to the current deployment only. Multiple service packs may be appended to a deployment. The service pack file is included in the deployment and the service pack is applied after the product is deployed.

- **Merge the Service Pack into the Administrative Image MSI file.** When you merge a service pack, the service pack is merged into the administrative image. Once merged, a service pack may not be removed from the admin image. Multiple service packs may be included in a single admin image.

### To extract an MSP file from a service pack

1. Download the service pack from the Autodesk product support site.
2. Review the service pack Readme file for information about patch usage.
3. Open a Windows command prompt and enter the patch file name followed by the /e switch and a target file name, such as:
   ```
   ProductSP1.exe /e ./ProductSP1.msp
   ```
   where `<ProductSP1.exe>` is the name of the downloaded patch and `<ProductSP1.msp>` is the name of the extracted file. Using `. /` in front of the extraction file name places the extracted file in the same folder as the original executable.

   **NOTE** To find out if a service pack is available, visit the Autodesk Product Support page at [http://support.autodesk.com/](http://support.autodesk.com/).

### To include a service pack with the deployment

To include a service pack with a deployment, an MSP file must be extracted from the downloaded service pack executable.

1. On the Include Service Packs page, click the [...] button.
2. In the Open dialog box, locate the service pack you want to include with the deployment.
3. Select the MSP file and click Open.
4 Specify whether you want to Append the service pack on to the deployment or merge the service pack into the administrative image.

5 Click Next.

Configure InfoCenter Communication Center (optional)

The Communications Center is accessed through InfoCenter. Products are updated with Live Update, which downloads patches to your product using Communication Center. Beyond Live Update, other information channels and feeds can be displayed by the Communication Center.

The Communication Center settings you can make include

- **Enable Live Update.** Users can use Live Update to check for updates when a web connection is established. If a product patch is available, notification of its availability is received on the program’s status bar, and the patch can be either downloaded directly from an Autodesk server or modified first.
before being copied to users' workstations. If you don’t want users to receive updates or announcements, you can turn off Live Update.

**NOTE** You can also turn Live Update options on or off in the CAD Manager Control utility. See How to Install and Start the CAD Manager Control Utility

- **Enable Information Channels.** When active, information channels notify users with various pieces of information such as subscription announcements and product support information.

- **Enable CAD Manager Channels.** Controls the display of the CAD Manager Channels in InfoCenter. Aside from being able to toggle CAD Manager Channels, you can also define the CAD Manager feed location and set the display name for the CAD Manager Channel.

- **Enable RSS Feeds.** Users can subscribe to any number of RSS feeds. Each feed is contained within a discrete InfoCenter category. Additionally, you can specify whether users can add RSS feeds.

**To configure Communication Center**

1. When creating a deployment, on the Configure InfoCenter Communication Center page, make the following Live Update settings:

   - **Enable Live Updates.** Users can receive product updates or support announcements from Autodesk servers.

   - **Receive Live Updates from Autodesk.** Users can receive product updates and support announcements from Autodesk servers with Live Update.

   - **Receive Live Updates from Internal Server.** You can maintain a patch list on a local server. If you select this option, the Local Patch List Location box is available. Use the [...] button to locate the path to a server location where you want a patch list to be located. More information about how to use a local patch list is available by installing Autodesk CAD Manager Tools 4.0, running the CAD Manager Control utility, and then clicking Help in the CAD Manager Control utility window.

**NOTE** You can name a file that will be used to enter the patch information. By naming a file and using an .npl extension now, you are creating a placeholder file, not creating the file itself. In the location that you specify in the Local Patch List Location box, you must create a text file with the same name you specify here.
2 Specify whether Information channels should be enabled.

3 Specify whether CAD Manager channels should be enabled. When active, you can make the following settings:
   ■ Feed Location. Defines the location of the CAD Manager channel RSS feed. RSS feeds are in XML format.
   ■ Display Name. Sets the display name of the CAD Manager channel.

4 Specify whether RSS Feeds are enabled and if users are allowed to add feeds.

5 Click Next.

**Configure InfoCenter Search Results (optional)**

The Search Results tab of InfoCenter can be configured to display content from various sources, such as the product Help system, CAD Manager Channels, or the Internet.

You can specify whether users who install from the deployment can customize access to their InfoCenter search locations.

**To configure InfoCenter search results**

1 When creating a deployment, on the Configure InfoCenter Search Results page, specify whether users have the option to customize their InfoCenter search locations.

2 Click Next.
Allow Users to Access Online Resources (optional)

The Configure Access to Online Resources page allows you to specify whether users can access online resources such as DesignCenter and Subscription Center. You can also determine whether users will receive notification from Autodesk when reported errors are resolved and if they want to participate in the Customer Involvement Program.

DesignCenter and Subscription Center

The DC Online tab in DesignCenter® provides access to predrawn content such as blocks, symbol libraries, manufacturers' content, and online catalogs. This content can be used in common design applications to assist users in creating drawings. If you turn off DC Online, the DC Online tab is removed from all installations that are based on this deployment. The Enable DC Online option is active by default.

Subscription Center provides Autodesk subscription members access to resources such as e-Learning (self-paced, interactive lessons) and web support (where customers can submit technical questions online to Autodesk support staff).
You can determine whether users who are entitled to subscription resources can access them by using Help and clicking a Subscription resource. Users who do not have such access can still learn about subscription resources by using the same option on the Help menu.

**NOTE** You can also enable or disable DesignCenter Online and Subscription Center access from the CAD Manager Control utility.

**Customer Error Reporting (CER)**

If AutoCAD closes unexpectedly, users have the opportunity to send an error report directly to Autodesk, which helps Autodesk to determine and resolve the error. You can determine whether users can also receive notification from Autodesk when their reported errors are resolved.

**NOTE** You can also turn Customer Error Reporting notification on or off in the CAD Manager Control utility.

**Customer Involvement Program (CIP)**

If you choose to participate in the Customer Involvement Program, AutoCAD will automatically send Autodesk information about what features you use most, any problems that you encounter, and other information helpful to the future direction of the product.

For more information regarding the CIP, see Join the Customer Involvement Program.
NOTE You can enable or disable the Customer Involvement Program from the CAD Manager Control utility.

To configure access to online resources

1 While creating a deployment, on the Configure Access to Online Resources page, do one of the following to configure DesignCenter Online:
   ■ To disable DesignCenter Online, make sure that the check box next to Enable DC Online is cleared.
   ■ To enable DesignCenter Online, select the check box next to Enable DC Online.

2 To allow access to the Subscription Center, select or clear the check box next to Allow Access to Subscription Center from Within the Autodesk Product (Recommended). This option is enabled by default.

3 If you want to receive notification of problem resolutions, do the following:
   ■ Select the check box next to Allow Users to Receive Notification of Resolution so that users are made aware of resolutions to issues and can download applicable updates provided by Autodesk. This option is enabled by default.

   NOTE Users must have administrative permissions to install an update provided by Autodesk.

   ■ Select the check box next to Include Computer Name to include the user’s computer name in error reports. The computer name is included in notifications to the user and in reports available to subscription administrators. This option is disabled by default.

4 If you want to participate in the Customer Involvement Program, make sure the check box next to Allow Users to Participate in the Autodesk CIP Program is enabled.

5 Click Configuration Complete.
Final Review and Complete Setup

To complete your deployment setup, confirm the settings you selected.

To confirm and complete the setup of a network deployment

1 After making all your deployment settings, on the Review - Configure - Create Deployments page, scroll the list of current settings and verify your installation selections.

2 If you want to change any selections you made for the deployment, click the Configure button.

3 If you want a hardcopy of the installation information displayed on this page, click the Print button.

4 If you are ready to complete the deployment, click Create Deployment.

5 On the Deployment Complete page, click Finish.
To confirm and complete the setup of a multi-seat stand-alone deployment

1 After making all your deployment settings, on the Review - Configure - Create Deployments page, scroll the list of current settings and verify your installation selections.

2 If you want to change any selections you made for the deployment, click the Configure button.

3 If you want a hardcopy of the installation information displayed on this page, click the Print button.

4 If you are ready to complete the deployment, click Create Deployment.

5 On the Deployment Complete page, click Register Products Online.
Registration at this stage ensures that consistent data is being used to streamline product activation. When a user installs from this deployment and runs the product, registration data is automatically referenced and the product gets activated. See Register the Product (page 58).

6 Click Finish.

You have created an Autodesk product deployment with precise options that are specific to your group of users. You can now inform those using this deployment where the administrative image is located so that they can install the program.

Register the Product

It is very important that the registration data (for example, your company name and contact information) you supply when registering and activating your products is consistent across all Autodesk products that you install. If you enter this data incorrectly or inconsistently, you can run into activation problems.

The way products are registered depends upon the type of license you selected while creating the deployment. In order to receive an activation code, your product must be registered.

To register a network licensed deployment

1 On the Start menu (Windows), click All Programs (or Programs) ➤ Autodesk ➤ Network License Manager ➤ AutoCAD 2008 Network License Activation Utility.

2 On the Obtain a Network License page, review how this utility works and the requirements for using it, and then click Next.
3 Follow the on-screen instructions to complete the registration and activation.

**To register a multi-seat stand-alone licensed deployment**

1 On the Deployment Complete page, click Register Products Online.

   **Register all products.** Use the link below to register the products online. If you do not have Internet access you may register the products during the activation process.

   Register products online

   Click Finish to exit.

   The Register Today page is displayed. You complete Register Today at this point so that all users have the same default registration information.

2 In the Register Today wizard, follow the on-screen instructions to complete the registration.

   **NOTE** This process only registers the product. If users are connected to the Internet, activation will occur automatically when the product is started.

**Modify a Deployment (optional)**

After a deployment is created, it may be necessary to modify the deployment for some client workstations. You can apply a patch or select various custom files that are not part of the base administrative image. You can also perform modifications such as changing the installation directory from drive C to drive D.

**To modify a deployment**

1 Open the shared network folder where you originally chose to place your product deployment.

2 Double-click the Modify `<deployment name>` shortcut in the shared folder. This re-opens the Installation wizard.

3 Click through the deployment pages and make the necessary changes.
After all the modifications have been made, click Create Deployment.

Point Users to the Administrative Image

When you have completed the deployment process, you are ready to have users install the newly created or modified deployment. You need to notify your users of the shortcut that was created in the administrative image. The shortcut is the same name that you chose in Create a Deployment (page 31).

To point users to the administrative image

- The simplest method of notifying users how to install the deployment is to email them with instructions about using the shortcut. At a minimum, the instructions need to include the location of the deployment and instructions about double-clicking the shortcut to the deployment.

NOTE For more advanced ways of using the shortcut and installing the deployment, see Advertise a Deployment Using MSI, Use Scripts to Deploy the Program (page 63), Use Group Policies to Install a Deployment (page 77), Use Microsoft Systems Management Server to Install a Deployment, or Use Microsoft Systems Management Server to Install a Deployment.

Uninstall the Program

When you uninstall AutoCAD 2008, all components are removed in the process. This means that even if you have previously added or removed components, or if you have reinstalled or repaired the program, uninstalling removes all program installation files from your system.

NOTE If you plan to modify an administrative image at a later date (for example, by adding a patch to it), do not remove that image.

To uninstall the program

1. In the Windows Control Panel, click Add or Remove Programs.
2. In the Add/Remove Programs window, select AutoCAD 2008, and then click Change/Remove.
3. When the Installation wizard opens, choose Uninstall AutoCAD 2008.
4 On the Uninstall AutoCAD 2008 page, click Next to remove AutoCAD from the system.

5 When informed that the product has been successfully uninstalled, click Finish.

**NOTE** Autodesk programs that you use with the program (such as Autodesk DWF Viewer) are not removed automatically when you uninstall AutoCAD. You must uninstall them separately using Add or Remove Programs.
Use Scripts to Deploy the Program

A script executes a command or a set of commands. Scripts are similar to batch files but are more flexible. Installation scripts are most useful for stand-alone installation of programs on computers that are connected to a network. Scripts are also useful for installing service packs, extensions, and object enablers on a network.

In order for AutoCAD to run properly, the following software and prerequisites must be installed and met on the computer where the program is being installed:

- Microsoft Internet Explorer version 6.0 Service Pack 1 or later (You can download Microsoft Internet Explorer from the Microsoft website by visiting www.microsoft.com)

- Microsoft Scripting Engine

The sample scripts in this section are based on Microsoft Scripting Engine 5.6, which works with both VBScripts and JavaScript. If you don’t have the scripting engine...
installed, you can download it for free from the Microsoft website at www.msdn.microsoft.com/scripting. Sample scripts and Help files are also available there for download.

■ Administrative permissions
Create Scripts That Install Programs

You create a script by using a text editor such as Notepad and then saving it in ASCII format in a file with the file extension .vbs. The script consists of one or more commands, as well as command switches that specify options, and flags that modify the options. An installation script also contains path names.

An installation script points to the location of the product's setup.exe file. You must point to the setup.exe file on your product CD. For example:

AutoCAD 2008 CDROM1\setup.exe

A Sample Installation Script

The sample script in this section installs the program in a typical configuration. To make it easy to copy this sample script and substitute your own information, the same names are used throughout for variable items. The log file name is based on the product being installed. You can either use the log file name in the script or change it to something else.

Serial number prefix: 123
Serial number: 12345678
First name: Your First Name
Last name: Your Last Name
Organization: Your Company Name

A sample script for a silent installation of this program uses the syntax shown in this section.
Scripted installation for AutoCAD 2008

' Scripted installation for AutoCAD 2008
option explicit
'
' Create variables
dim x64bit
  dim shell
  dim productType
  dim featuresToInstall
  dim strADSKFirstName
  dim strADSKLastName
  dim strADSKOrganization
  dim strADSKSecurity
  dim strADSKSerialIsvalid
  dim strADSKAccept
  dim strADSKEula
  dim strADSKReInstall
  dim strADSKRemove
  dim strADSKSNPrefix
  dim strADSKSNNumber
  dim strInstallLevel
  dim strACADStandaloneNetworkType
  dim strADSLicenseServerType
  dim strADSLicenseType
  dim strADSKServerFmtPath
  dim strADSKServerPath
  dim strADSKServerHostID
  dim strADSKPath
  dim strSourcePath
  dim strAdditionalStuff
'
' Script initialization
Set shell = CreateObject("WScript.Shell")
x64bit = false ' change to true if this is AutoCAD 2008 x64
productType = "acad"
strInstallLevel=3 ' 5 installs everything 3 installs typical
' Name and Organization information
strADSKFirstName = "Your First Name"
strADSKLastName = "Your Last Name"
strADSKOrganization = "Your Organization Name"

' Serial Number information
strADSKSNPrefix = "123"
strADSKSNNumber = "12345678"

' Source to install from (e.g. D: is assumed to be Install Media)
strSourcePath = "d:\"

' Destination to install to
strADSKPath = Shell.ExpandEnvironmentStrings("%ProgramFiles%") + "\AutoCAD 2008"
' Features to install
' ACS - AutoCAD Samples
' CADStandards - CAD Standards
' Database - Database (DBCONNECT)
' DCS - DesignCenter Samples
' DigSig - Digital Signatures
' Dictionaries - Dictionaries
' DrawingEncryption - Drawing Encryption
' Express_Tools - Express Tools
' Fonts - Fonts
' Impression - Autodesk Impression Toolbar (NOT in AutoCAD 2008 64 bit)
' Materials - Materials Library
' Migrate - Migrate Custom Settings
' NFW - New Features Workshop
' PLM - Portable License Utility
' RefMan - Reference Manager
' System_Files - Required system files (installed by default in this script)
' TM - Texture Maps
' VBA - Visual Basic for Applications
' VLS - Visual LISP Samples
' VLT - Visual LISP Tutorials
'
' Sample is below - Note the leading comma
featuresToInstall = "\",DigSig,TM,CADStandards,Database,Dictionaries,DrawingEncryption,Express_Tools,Fonts,NFW,Migrate,RefMan,Samples,ACS,DCS,VBA,Materials,PLM,VLS,VLT"
if not x64bit then
' To add Autodesk Impression to the install
featuresToInstall = featuresToInstall & "\",Impression"
strAdditionalStuff = "ACADSHOWIMPR=" & "1" & ""
end if
Uncomment the relevant version of your installation - Default is Standalone

For Standalone
RunStandaloneInstall()

For Single Network License Server
RunSingleLicenseServerInstall()

For Redundant Network License Servers
RunRedundantLicenseServerInstall()

For Distributed Network License Servers
RunDistributedLicenseServerInstall()

End of Script
Wscript.quit()

Function RunStandaloneInstall
    shell.run DefaultCommand(),2,1
end function

Function RunSingleLicenseServerInstall
    strACADStandaloneNetworkType = "3"
    strADSKLicenseServerType = "Single Server License"
    strADSKLicenseType = "Network License"
    strADSKServerPath = "myFlexServer"
    strADSKServerHOSTID = "001122334455"
    strADSKServerPath = strADSKServerPath & " " & strADSKServerHOSTID
    shell.run MakeCommand(),2,1
end function
Function RunRedundantLicenseServerInstall
    ' Update with the correct information for the license servers
    strACADStandaloneNetworkType = "3"
    strADSKLicenseServerType = "Redundant Server License"
    strADSKLicenseType = "Network License"
    ' Format is SERVERNAME1 MACADDR1 PORT1;SERVERNAME2 MACADDR2
    PORT2; SERVERNAME3 MACADDR3 PORT3; - Only 3 permitted for redundant
    servers
    strADSKServerPath = " myFlexServer 0011233455 27005; myFlex
    Server2 006622334455 27005;"
    shell.run MakeCommand(),2,1
end function

Function RunDistributedLicenseServerInstall
    ' Update with the correct information for the license servers
    strACADStandaloneNetworkType = "3"
    strADSKLicenseServerType = "Distributed Server License"
    strADSKLicenseType = "Network License"
    ' Format is @SERVERNAME1;SERVERNAME2;SERVERNAME3;
    strADSKServerPath = "@ myFlexServer;@ myFlexServer2;@ myFlexServ
    er3;"
    shell.run MakeCommand() & "ACAD_LICENSESERVER_DISTRIBUTED=1",2,1
end function
Function DefaultCommand
    dim retString
    ' /q for silent install ' /c [key] override parameters for the key
    retString = strSourcePath & "\setup.exe /t /q /c " & productType & ": "
    retString = retString & "INSTALLDIR=" & strADSKPath & "" & ""
    retString = retString & "ACADSERIALPREFIX=" & strADSKSNPrefix & ""
    retString = retString & "ACADSERIALNUMBER=" & strADSKSNNumber & ""
    retString = retString & "ACADFIRSTNAME=" & strADSKFirstName & ""
    retString = retString & "ACADLASTNAME=" & strADSKLastName & ""
    retString = retString & "ACADORGANIZATION=" & strADSKOrganization & ""
    retString = retString & "InstallLevel=" & strInstallLevel & ""
    if strInstallLevel = 3 then
        retString = retString & "ADDLOCAL=" & "System_Files" & 
    end if
    retString = retString & strAdditionalStuff ' Specifically for Impression Toolbar
    DefaultCommand = retString & ""
end function

Function MakeCommand
    dim retString
    retString = DefaultCommand() & ""
    retString = retString & "ACADSTANDALONENETWORKTYPE=" & strACADStandaloneNetworkType & ""
    retString = retString & "ACADLICENSESERVERTYPE=" & strADSKLicenseServerType & ""
    retString = retString & "ACADLICENSETYPE=" & strADSKLicenseType & ""
    retString = retString & "ACADSERVERPATH=" & strADSKServerPath & ""
    MakeCommand = retString
end function
Use Switches and Flags in Scripts

The following table lists all of the switches and flags that are relevant to installation.

| NOTE | You must set the installation switch to INSTALLDIR=. If this is not done, programs that run outside AutoCAD (such as the Portable License utility) are not installed. |

### Switches in Installation Scripts

<table>
<thead>
<tr>
<th>Switch</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSTALLDIR=</td>
<td>Specifies the location to install the product.</td>
</tr>
<tr>
<td>ACADSERIALPREFIX=</td>
<td>Specifies the numbers that precede the hyphen in the serial number.</td>
</tr>
<tr>
<td>ACADSERIALNUMBER=</td>
<td>Specifies the serial number.</td>
</tr>
<tr>
<td>INSTALLLEVEL=</td>
<td>Specifies the type of installation: 3=Typical</td>
</tr>
<tr>
<td>ACADFIRSTNAME=</td>
<td>Specifies the first name personalization.</td>
</tr>
<tr>
<td>ACADLASTNAME=</td>
<td>Specifies the last name personalization.</td>
</tr>
<tr>
<td>ACADORGANIZATION=</td>
<td>Specifies the company name.</td>
</tr>
<tr>
<td>ADDLOCAL=</td>
<td>Used for customized installations where you designate specific features to install. See Scripts for Custom Installations (page 73).</td>
</tr>
</tbody>
</table>

### User Interface Flags

<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>q</td>
<td>Designates that the installation is performed in silent mode.</td>
</tr>
</tbody>
</table>
Scripts for Custom Installations

To create a script for a custom installation, use the syntax ADDLOCAL=".....".

The following example shows how component flags are used in the DefaultCommand section of a script.

```vbscript
Function DefaultCommand
    dim retString
    ' /q for silent install /c [key] override parameters for the key
    retString = strSourcePath & "\setup.exe /t /q /c " & productType & ": "
    retString = retString & "INSTALLDIR=" & strADSKPath & ""
    retString = retString & "ACADSERIALPREFIX=" & strADSKSNPrefix & ""
    retString = retString & "ACADSERIALNUMBER=" & strADSKSNNumber & ""
    retString = retString & "ACADFIRSTNAME=" & strADSKFirstName & ""
    retString = retString & "ACADLASTNAME=" & strADSKLastName & ""
    retString = retString & "ACADORGANIZATION=" & strADSKOrganization & ""
    retString = retString & "InstallLevel=" & strInstallLevel & ""
    retString = retString & strAdditionalStuff ' Specifically for Impression Toolbar
    if strInstallLevel = 3 then
        retString = retString & "ADDLOCAL=" & "System_Files,ACS,Impression,NFW" & featuresToInstall & ""
    end if
    DefaultCommand = retString & ""
End Function
```

The table below lists all the component flags you can use.

<table>
<thead>
<tr>
<th>Component Flags</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACS</td>
<td>AutoCAD Samples</td>
</tr>
</tbody>
</table>
### Component Flags

<table>
<thead>
<tr>
<th>Flag</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD Standards</td>
<td>CAD Standards</td>
</tr>
<tr>
<td>Database</td>
<td>Database (DBCONNECT)</td>
</tr>
<tr>
<td>DCS</td>
<td>DesignCenter Samples</td>
</tr>
<tr>
<td>DigSig</td>
<td>Digital Signatures</td>
</tr>
<tr>
<td>Dictionaries</td>
<td>Dictionaries</td>
</tr>
<tr>
<td>Drawing Encryption</td>
<td>Drawing Encryption</td>
</tr>
<tr>
<td>Express_Tools</td>
<td>Express Tools</td>
</tr>
<tr>
<td>Fonts</td>
<td>Fonts</td>
</tr>
<tr>
<td>Materials</td>
<td>Materials Library</td>
</tr>
<tr>
<td>Migrate</td>
<td>Migrate Custom Settings</td>
</tr>
<tr>
<td>NFW</td>
<td>New Features Workshop</td>
</tr>
<tr>
<td>PLM</td>
<td>Portable License Utility</td>
</tr>
<tr>
<td>RefMan</td>
<td>Reference Manager</td>
</tr>
<tr>
<td>Samples</td>
<td>Sample files</td>
</tr>
<tr>
<td>System_Files</td>
<td>Required system files</td>
</tr>
<tr>
<td>TM</td>
<td>Texture Maps</td>
</tr>
<tr>
<td>Tutorials</td>
<td>Tutorials</td>
</tr>
</tbody>
</table>
Component Flags

<table>
<thead>
<tr>
<th>Flag</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBA</td>
<td>Visual Basic</td>
</tr>
<tr>
<td>VLS</td>
<td>Visual LISP Samples</td>
</tr>
<tr>
<td>VLT</td>
<td>Visual LISP Tutorials</td>
</tr>
</tbody>
</table>

Run Scripts

After creating a script, you move it to a server or use a mapped drive letter or a UNC (universal naming convention) path. If you place it on a server for users to run, create a share on the server, and then add users to the share with the rights they need. Because all that users need to do is run the script, provide read-only access to the share directory.

Next (on the same server or on a different server), create a directory for each product you want to install. Choose a location for this directory that won’t be changed so that you can point to the MSI files in your scripts. Copy the product CD(s) to that directory. You may also want to create directories for service packs, extensions, and your own customization tools.

You can use any of the following methods to run an installation script:

- Run the script manually at each individual workstation. To run the installation, paste the script into the Run dialog box or run it from the Windows command prompt.
- Send an email with the UNC path to each user who should run the script. To run the script, the user follows your instructions.
- Email the script to each user with instructions for use.
- Set up the script so that it runs on login.
Use Group Policies to Install a Deployment

With group policies, you can advertise this program by assigning the deployment to computers.

In order for AutoCAD to run properly, the following software must be installed on the computer where the program is being installed:

- Microsoft .NET 2.0 (available on the product CD)
- Microsoft Internet Explorer version 6.0 Service Pack 1 or later (You can download Microsoft Internet Explorer from the Microsoft website by visiting www.microsoft.com).
- Microsoft Installer Package (MSI) 3.1
- Macromedia Flash™ Player 9.0
- Autodesk DWF Viewer® 7.0

In this appendix

- Introduction
- Distribute a Deployment Through Group Policies
- Assign a Deployment to Computers
- Verify the Installation of a Deployment
Microsoft Data Access Components (MDAC) 2.7, Service Pack 1
Introduction

With group policy objects, this program can be advertised to any computer that is part of Windows 2000, Windows XP and Windows 2003 Server Active Directory environments.

Assign a Deployment Using Group Policies

Assign a deployment that was created during the deployment process by the Installation wizard to a computer. Assigning a deployment to a computer installs the program the next time the computer is restarted.

A deployment that is assigned to a computer can be used by any user of that computer. Generally, you should assign the program to a computer if the computer is used by a large number of users.

**NOTE** Autodesk products are designed to be installed on a computer so that any user who logs on to the computer can run the software. If you attempt to assign this program for a specific user rather than a computer, you may encounter problems when a second specified user tries to install or uninstall a copy of the program.
Advantages and Disadvantages of Using Group Policies

The following table outlines the advantages and disadvantages of using group policies.

<table>
<thead>
<tr>
<th>Advantage</th>
<th>Disadvantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Works well with the deployment functionality of the Installation wizard.</td>
<td>Cannot pass command-line parameters to MSI executable. The solution is to use scripts.</td>
</tr>
<tr>
<td>Easy to add custom files through the deployment functionality of the Installation wizard.</td>
<td>Cannot customize application settings other than what is set while creating a deployment with the Installation wizard.</td>
</tr>
<tr>
<td>Deployed to workstation.</td>
<td></td>
</tr>
<tr>
<td>Simple to implement.</td>
<td></td>
</tr>
</tbody>
</table>

Distribute a Deployment Through Group Policies

There are three main steps to distributing this program through group policies.

1 Create an application distribution share point. The application distribution share point is created using the Deployment wizard. Follow the steps outlined in Use the Installation Wizard to Set Up a Deployment (page 29) to create a deployment.

2 Assign the program to a computer.

3 Verify the installation. Make sure that the program has been correctly installed.
Assign a Deployment to Computers

When the program is assigned to a computer, it is available to all users of the computer. The following procedures must be run from the server that has access to the Windows 2003 Server, Windows XP or Windows 2000 Active Directory for assigning this program to computers.

To assign a deployment to a computer

1. On the Start menu (Windows), click All Programs (or Programs) ➤ Administrative Tools ➤ Active Directory Users and Computers.

2. In the Active Directory Users and Computers window, right-click the organizational unit where you want to create the group policy object. Then click Properties. The Properties dialog box for the organizational unit you selected is displayed.

   **NOTE** In order for the group policy object to take effect, the computer objects must be located in the organizational unit you have selected.

3. In the Properties dialog box, on the Group Policy tab, click New. Enter a name for the group policy object. For example, enter AutoCAD Computer Assigned Installation.

   The group policy is created and is added to the Group Policy Object Links list.

4. In the Group Policy Object Links list, click the policy you just created, and then click Edit.

5. Do one of the following:
   - For Windows 2003 Server: In the Group Policy Object Editor window, under Computer Configuration, click the plus sign (+) next to the Software Settings folder to expand it.
   - For Windows 2000 Server: In the Group Policy window, under Computer Configuration, click the plus sign (+) next to the Software Settings folder to expand it.

6. Under Software Settings, right-click Software Installation, and then click Properties.
In the Software Installation Properties dialog box, on the General tab, click Browse.

In the Browse for Folder dialog box, locate the application distribution share point created in the Deployment wizard, and select the AdminImage folder. Then click OK.

The Software Installation Properties dialog box displays (in UNC format) the default package location, the server name, the shared folder that you selected, and AdminImage. For example:

\server123\Deployment\AdminImage

Do one of the following:

- For Windows 2003 Server: On the General tab, under New Packages, click Advanced to specify a method to be used when a new package is created. This method also allows the transform file created by the Deployment wizard to be selected.

- For Windows 2000 Server: On the General tab, under New Packages, click Advanced Published or Assigned to specify a method to be used when a new package is created. This method also allows the transform file created by the Deployment wizard to be selected.

Click OK to close the Software Installation Properties dialog box.

Do one of the following:

- For Windows 2003 Server: In the Group Policy Object Editor dialog box, under Software Settings, right-click Software Installation, and click New ➤ Package.

- For Windows 2000 Server: In the Group Policy dialog box, under Software Settings, right-click Software Installation, and click New ➤ Package.

In the Open dialog box, make sure the Windows Installer Packages file (acad.msi) is selected, and click Open. This default selection is the application distribution share point that you set earlier.

If you created the administrative image in a location different from the application distribution share point, find the administrative image location, and click acad.msi.

In the <product name> Properties dialog box, click the Deployment tab. Under Deployment Type, verify that Assigned is selected.

On the Modifications tab, click Add.
In the Open dialog box, click the transform package file (.mst) created by the Deployment wizard, and then click Open.

If you created the administrative image in a location different from the application distribution share point, find the administrative image location and select the transform package file (.mst).

In the <product name> Properties dialog box, on the Modifications tab, the transform package you selected is added to the Modifications list. Click OK.

**NOTE** You must select the transform package file created by the Deployment wizard when you created the group policy object. You cannot add or remove transform package files after the group policy object has been created. If you fail to select a transform package file, the program cannot be installed on the client computer.

Do one of the following:

- For Windows 2003 Server: In the Group Policy Object Editor window, under Computer Configuration, click Software Installation. The newly created program package is displayed in the right pane.

- For Windows 2000 Server: In the Group Policy window, under Computer Configuration, click Software Installation. The newly created program package is displayed in the right pane.

Do one of the following:

- For Windows 2003 Server: Close the Group Policy Object Editor window and any other open Active Directory windows.

- For Windows 2000 Server: Close the Group Policy window and any other open Active Directory windows.

This program is assigned to all computers that are members of the organizational unit for which the group policy object has been created. The next time a computer in the organizational unit is restarted, the program will be installed and will be available for all users of the computer. See Verify the Installation of a Deployment (page 84) to validate that the group policy has been created correctly.
Verify the Installation of a Deployment

As a computer is restarted, the operating system displays messages about group policy, generally just before or after the Windows Login dialog box is displayed. These messages include the following:

- Windows starting up
- Applying computer settings
- Installing managed software <application>
- Applying software installation settings
- Loading your personal settings
- Applying your personal settings

From a Windows XP or Windows 2000 workstation, users log in under the organizational unit or computer for which the group policy has been created.

NOTE If problems arise, an entry is logged in the system's Event Viewer under Applications.

Verify That the Program Is Assigned to a Computer

To verify that this program has been correctly assigned to a computer, restart a computer that is in the organizational unit for which the group policy was created. The program is installed before the login prompt is displayed. After logging in, double-click the program icon on the desktop. A second-time installation begins. At the completion of the installation, the program starts.
Distribute the Product
Using Imaging Software

The following information is provided for those who use imaging software, such as Norton Ghost, to create a master image to distribute Autodesk products. Once created, the master image is then replicated to other computers throughout your facility.

Care needs to be taken since the use of imaging software can result in the following situations:

- Conflicts with the product licensing
- Incomplete installations and problems with activation

**NOTE** If you are experiencing licensing instability in a SATA RAID environment, using imaging software to distribute Autodesk products can cause product activation problems, such as “Activation code limit exceeded” when you attempt to activate.

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**In this appendix**

- Use a Master Image to Distribute Multi-Seat Stand-Alone Products to Multiple Systems
- Use a Master Image to Distribute Network Licensed Products to Multiple Systems
- Restore the Master Image
- Clean a Master System and Restore the Operating System
Use a Master Image to Distribute Multi-Seat Stand-Alone Products to Multiple Systems

You can distribute the product using a master image for a multi-seat stand-alone product.

**NOTE** When using Norton Ghost, you must use the `-ib` switch to include the boot sector in your master image. Consult your imaging software for more details on including the boot sector as part of the master image.

Master images should not be created if you’ve previously run Autodesk products on the master computer. Cleaning the system may be necessary. See Clean a Master System and Restore the Operating System (page 89).

**To distribute a multi-seat stand-alone product to multiple computers using a master image**

1. Create a network deployment for a multi-seat stand-alone product. For more information, see Use the Installation Wizard to Set Up a Deployment (page 29).

2. Install the Autodesk product from the deployment onto the master computer.

3. Do one of the following on the master computer:
   - Create a master image, including the boot sector. Test the product on a machine other than the master computer before distributing the product. Launch the product on the other machine, and register and activate it. Users have a 30-day grace period to register and activate the product on their machines.
   - Launch and customize the product as necessary. Create a master image and distribute it to users. If users’ computers are connected to the Internet, the product is automatically activated. Users whose computers are not connected to the Internet have a 7-day grace period to register and activate the product.

4. Apply the master image to the target computers.
Use a Master Image to Distribute Network Licensed Products to Multiple Systems

You can distribute the product using a master image for a network licensed product.

**To distribute a network licensed product to multiple computers using a master image**

1. Create a network deployment for a network licensed product. For more information, see Use the Installation Wizard to Set Up a Deployment (page 29).

2. Install the Autodesk product from the deployment onto the master computer.

   **NOTE** A license server must be running, and each computer must be connected to the network in order for the product to obtain a license.

3. After the Autodesk product has been installed, use imaging software to create a master image of the system’s hard drive.

4. Apply the master image to the target computers.

**Restore the Master Image**

The following procedure assumes that you have saved a copy of each workstation’s Software Licenses folder (and Product Licenses folder, if present) to either another workstation or a DVD before you reformat the workstation.

**To restore a product using a master image**

1. Exit the application. Do not run the application again until after you have completed this procedure.

2. In Windows Explorer, copy the Software Licenses folder from the appropriate path shown below to a location other than the disk that will be restored.

   C:\Documents and Settings\All Users\Application Data\Autodesk\Software Licenses
3 Reformat the workstation and restore the master image.

**NOTE** Do not perform a low-level format of the hard drive.

4 Copy the *Software Licenses* folder that you created in step 2 to its original workstation and location on that workstation.

**NOTE** When you restore the disk image, any files that were altered are put back in their original state and ready to use again. The license files are preserved, and no reactivation of products is necessary.

---

**Clean a Master System and Restore the Operating System**

If you have already run the Autodesk product on the master computer, the master computer should be properly cleaned first.

**To clean a master computer and restore the operating system**

1 Clean the hard drive, including the boot sector.
   For example, if you use Norton’s GDISK utility, use the following command:
   
   ```
   gdisk 1 /diskwipe
   ```
   
   Where 1 is the hard disk that is being wiped.

   **NOTE** If you use a utility other than Norton Ghost, make sure that it cleans the boot sector; otherwise, you will not be able to activate Autodesk products.

2 Create a new partition and use the restore CD or product CD to install the operating system.
Glossary

activate  Part of the Autodesk software registration process, it allows you to run a product in compliance with the product’s end-user license agreement.

Active Directory  A directory service from Microsoft that is part of Windows 2000 and Windows 2003 Server.

administrative image  A collection of shared file resources created by the Deployment wizard and used by deployments to install the program to network workstations. Service packs (patches) can be applied to an administrative image using the Deployment wizard.

advertising  A pull technology that notifies users of an updated software product that is available for installation. Users typically double-click a shortcut (or do a similar operation) to complete the installation of the advertised product.

AutoCAD startup accelerator  A runtime process that can accelerate the initial startup of AutoCAD.

deploy  The process of installing an Autodesk product to one or more computers on a network.

deployment  A link to a unique MST (Microsoft Transform) file that serves as a basis for an installation. Using the Deployment wizard, administrators can create multiple deployments that result in different types of installations for users.

directory service  A network service that identifies all resources on a network and makes them accessible to users and applications. Resources include email addresses, computers, and peripheral devices such as printers. Ideally, the directory service should make the physical network topology and protocols transparent so that a user on a network can access any resource without knowing where or how it is physically connected. Virtually all directory services are based on the X.500 ITU standard.

FLEXlm  License management technology from Macrovision Software, Inc. FLEXlm provides administrative tools that help to simplify management of
network licenses. FLEXlm can be used to monitor network license status, reset licenses lost to a system failure, troubleshoot license servers, and update existing license files.

**group policy** Microsoft server technology that provides a way to do push installations and advertising-based installations using standard Microsoft 2000 Server administration components.

**installation image** A deployment that consists of an MSI file, any associated transforms, additional user-specified custom files, and profile and registry settings.

**MSI** Microsoft installer that supports a variety of parameters that can be scripted.

**MSP** Microsoft patch file (see patch).

**MST** Microsoft transform file. Modifies the components installed by the MSI file. For example, the Deployment wizard creates an MST file with the settings that you specify. The deployment created by the Deployment wizard uses the MST file in conjunction with the MSI file and MSIEXEC to install the program on local workstations.

**multi-seat stand-alone installation** A type of installation where multiple stand-alone seats of the program are installed using a single serial number.

**partial profile** A profile that contains partial registry information corresponding to a subset of the options available from the Files tab of the Options dialog box.

**patch** A software update to an application.

**power user** A user with rights to access and write to the *Program Files* folder and the *HKEY_Local_Machine* folder of the registry.

**pull technology** An installation technology that requires user interaction to complete the installation.

**push technology** An installation technology that installs files to a remote desktop without any user interaction.

**scripting** The process of using scripting languages such as VB Script to facilitate the deployment of software packages.

**service pack** Autodesk terminology for an application patch.

**silent installation** An installation that proceeds without any explicit user input. No dialog boxes are presented that require interaction from the user.
SMS Microsoft Systems Management Server. A tool that helps administer networked machines by allowing remote configuration, push deployments, and user administration. SMS is an expensive technology that must be purchased as an additional server.

transform See MST.
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