

AutoCAD 2011

Installation Guide

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Stand-Alone Installation

1

AutoCAD Installation provides instructions about how to prepare, and then install AutoCAD 2011. If you have never installed the product before, you should familiarize yourself with the entire installation process and options before beginning.

If you have a previous release installed, you should review the Migrating and Customizing section, so you can take full advantage of your custom settings.

For information about network-licensed versions of the program, see [Choose an Installation Type](#) on page 40.

Preparing for Installation

To prepare for installation, you should review the system requirements, understand administrative permission requirements, locate your AutoCAD serial number and product key, and close all running applications. Complete these tasks, and you are ready to begin installing AutoCAD.

System Requirements

The first task you need to complete is to make sure that your computer meets the minimum system requirements. If your system does not meet these requirements, problems can occur, both within AutoCAD and at the operating system level.

Whether your Windows operating system is the 32-bit or the 64-bit version, the version is automatically detected during installation. The appropriate version of AutoCAD is installed. A 64-bit version of AutoCAD cannot be installed on a 32-bit system and vice-versa.

See the following table for hardware and software requirements.

32-bit Hardware and Software Requirements

Operating systems	Service Pack 2 (SP2) or later for the following:	■ For more information on Windows Vista versions see http://www.microsoft.com/windowsvista/versions/
	<ul style="list-style-type: none"> ■ Microsoft® Windows® XP Professional ■ Windows XP Home 	■ For more information on Windows 7 see http://www.microsoft.com/windows7
	Service Pack 1 (SP1) or later for the following:	
	<ul style="list-style-type: none"> ■ Windows Vista® Enterprise ■ Windows Vista Business ■ Windows Vista Ultimate ■ Windows Vista Home Premium 	
	The following operating systems:	
	<ul style="list-style-type: none"> ■ Windows 7 Enterprise ■ Windows 7 Ultimate ■ Windows 7 Professional ■ Windows 7 Home Premium 	
Browser	Internet Explorer® 7.0 or later	
Processor	<p><i>Windows XP</i> - Intel® Pentium® 4 or AMD Athlon™ Dual Core, 1.6 GHz or higher with SSE2 technology</p> <p><i>Windows Vista</i> or <i>Windows 7</i> - Intel Pentium 4 or AMD Athlon Dual Core, 3.0 GHz or higher with SSE2 technology</p>	
Memory	2 GB RAM	
Display resolution	1024 x 768 with True Color	
Hard disk	Installation 1.8 GB	A 32-bit AutoCAD cannot be installed on a 64-bit Windows operating system and vice-versa.

32-bit Hardware and Software Requirements

Pointing device	MS-Mouse compliant
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Additional Requirements for 3D Modeling	<ul style="list-style-type: none">■ Intel Pentium 4 or AMD Athlon processor, 3.0 GHz or higher; or Intel or AMD Dual Core processor, 2.0 GHz or higher■ 2 GB RAM or more■ 2 GB free hard disk space available not including installation■ 1280 x 1024 32-bit color video display adapter (True Color) 128 MB or greater, Pixel Shader 3.0 or greater, Direct3D® capable workstation class graphics card
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64-bit Hardware and Software Requirements

Operating systems	<p>Service Pack 2 (SP2) or later for the following:</p> <ul style="list-style-type: none">■ Microsoft® Windows® XP Professional <p>Service Pack 1 (SP1) or later for the following:</p> <ul style="list-style-type: none">■ Windows Vista® Enterprise■ Windows Vista Business■ Windows Vista Ultimate <p>The following operating systems:</p> <ul style="list-style-type: none">■ Windows 7 Enterprise■ Windows 7 Business■ Windows 7 Ultimate■ Windows 7 Professional■ Windows 7 Home Premium	<ul style="list-style-type: none">■ For more information on Windows Vista versions see http://www.microsoft.com/windowsvista/versions/■ For more information on Windows 7 see http://www.microsoft.com/windows7
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Browser	Internet Explorer 7.0 or later
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64-bit Hardware and Software Requirements

CPU type	AMD Athlon 64 with SSE2 technology AMD Opteron™ with SSE2 technology Intel Xeon® with Intel EM64T support and SSE2 technology Intel Pentium 4 with Intel EM64T support and SSE2 technology	
Memory	2 GB RAM	
Display resolution	1024 x 768 with True Color	
Hard disk	Installation 2 GB	A 64-bit AutoCAD cannot be installed on a 32-bit Windows operating system and vice-versa.
Pointing device	MS-Mouse compliant	
3D Modeling Additional Requirements	<ul style="list-style-type: none">■ Intel Pentium 4 or AMD Athlon processor, 3.0 GHz or higher; or Intel or AMD Dual Core processor, 2.0 GHz or higher■ 2 GB RAM or more■ 2 GB free hard disk space available not including installation■ 1280 x 1024 32-bit color video display adapter (True Color) 128 MB or greater, Pixel Shader 3.0 or greater, Direct3D capable workstation class graphics card	

NOTE Adobe Flash Player is not installed by default. If a version of Flash is not currently installed on your system, a message is displayed requesting that you install it. Flash Player can be installed from the product media or Adobe's website - www.adobe.com.

Administrative Permission Requirements

To install AutoCAD, you must have administrator permissions. You do not need to have domain administrative permissions. See your system administrator for information about administrative permissions.

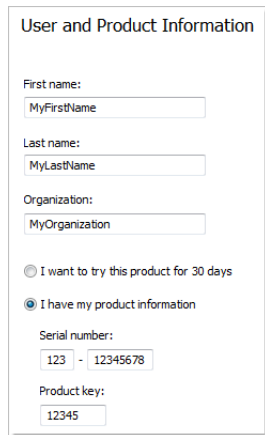
You do not need administrator permissions to run AutoCAD. You can run the program as a limited user.

Locating Your Serial Number and Product Key

When you install AutoCAD, you are prompted for your serial number and product key in the Product and User Information page, or the option of installing the product in trial mode. You may enter your product information at any time during your trial mode period if you opt to install the product in that mode.

The serial number and product key are located on the outside of the product packaging, or in the Autodesk® Upgrade and Licensing Information email. Make sure to have these available before you install the program so that you don't have to stop in the middle of the installation.

The serial number must contain a three-digit prefix followed by an eight-digit number. The product key consists of five characters.



User and Product Information

First name:
MyFirstName

Last name:
MyLastName

Organization:
MyOrganization

☐ I want to try this product for 30 days

☒ I have my product information

Serial number:
123 - 12345678

Product key:
12345

The information you enter is permanently retained with the product. Because you can't change this information later without uninstalling, take care when entering the information. To review this product information later, on the

InfoCenter toolbar, click the drop-down arrow next to the Help button (the question mark). Then click About - Product Information.

NOTE If you have lost your serial number or product key, contact the Autodesk Business Center (ABC) at 800-538-6401 for assistance.

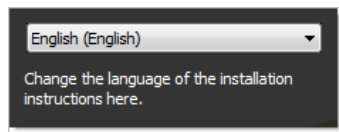
Minimize the Chances of Installation Failure

The AutoCAD installation process may stop if some applications such as Microsoft® Outlook® or virus-checking programs are running. Close all running applications to avoid possible installation problems and data loss.

Choose a Language

You can specify both the language in which the installation or deployment instructions are displayed, and the language of the products being installed or deployed.

As you begin an installation or create a deployment, the installer detects your operating system's language. If the detected language is supported, your installation or deployment instructions are displayed in that language. You can change the language for the instructions from the Language drop-down list on the initial page of the installation wizard.



To change the language of the products being installed or deployed, select another language on the Select the Products to Install or Select the Products to Include in the Deployment pages.

The following rules apply to language selection:

- Only one language can be chosen for each installation session. For example, you cannot select English for one product, and then select German for another product during the same installation.
- Only one language can be chosen during deployment creation. One administrative image can contain deployments for different languages, but each deployment must be targeted for one language.

- If you are editing an existing deployment, or creating a new deployment using an existing deployment as a template, the Language drop-down list is unavailable. The existing deployment's language is used.
- If a language is not supported, a default language is used.

Migrating Custom Settings

You can migrate your custom settings and files from previous releases of AutoCAD (*AutoCAD 2000* through *AutoCAD 2011*). It is recommended that you migrate custom settings from a previous release right away. This prevents you from overwriting files or having to keep track of any custom settings you may make in the new release. Migrating settings overwrites any new settings.

For more details regarding migration, see *Migrating and Customizing*.

Installing and Running the Product

To use the product, you must install the product, register and activate it, and then launch it. You must have administrative permissions to install AutoCAD.

This section provides instructions for installing and activating AutoCAD for an individual user on a stand-alone computer. For information about installing network-licensed or multi-seat stand-alone versions of the program, see *Network Administration and Deployment*.

Installing AutoCAD

The AutoCAD Installation wizard contains all installation-related material in one place. From the installation wizard, you can access user documentation, change the installer language, select a language for your product, install supplemental tools, and add online support services.

- **Review the installation documentation.** It is recommended that you take the time to familiarize yourself with the complete installation process before you install AutoCAD. You can access information on installation from the installation wizard by selecting the *Read this Documentation* option, the *Documentation* and information links, or through the Help system. For late-breaking information, it is also recommended that you review the product *Readme*.

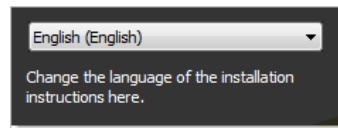
Install AutoCAD Using Default Settings on a Stand-Alone Computer

Using the default installation settings is the fastest way to install AutoCAD on a single, stand-alone system. A default installation does the following:

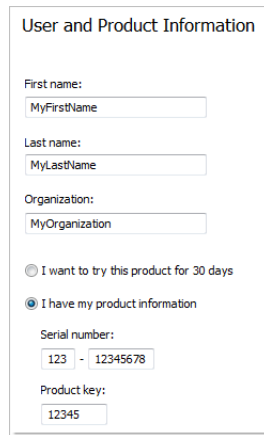
- Performs a Typical installation, which installs the most common application features.
- Installs the Express Tools library, which provides additional productivity tools.
- Installs AutoCAD to the default installation path of *C:\Program Files\Autodesk\<product name>*.

To install the product using default settings

- 1 Start the AutoCAD Installation wizard.
- 2 On the initial page, select a language for the installation instructions. Click Install Products.

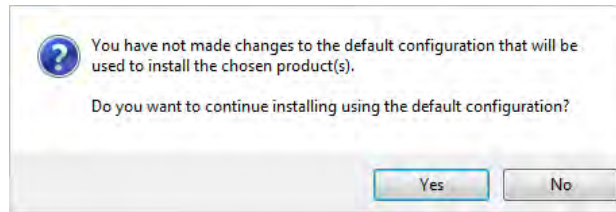


- 3 On the Select the Products to Install page, select your product(s) and the product language. Click Next.
- 4 Review the Autodesk software license agreement. Click I Accept, and then click Next.
- 5 On the User and Product Information page, enter your user information, serial number, and product key. Click Next.

A dialog box titled "User and Product Information" with a light gray border. It contains several input fields: "First name:" with a text box containing "MyFirstName", "Last name:" with a text box containing "MyLastName", and "Organization:" with a text box containing "MyOrganization". Below these are two radio buttons: "I want to try this product for 30 days" (unselected) and "I have my product information" (selected). Under the selected option are two more input fields: "Serial number:" with a text box containing "123 - 12345678" and "Product key:" with a text box containing "12345".

WARNING After you click Next, you cannot change the information entered on this page unless you uninstall the product.

- 6 On the Begin Installation page, click Install. In the configuration warning message, click Yes.



- 7 On the Installation Complete page, you can view the installation log and the AutoCAD *Readme*.
- 8 Click Finish.

You have successfully installed AutoCAD. You are now ready to register your product and start using the program. To register the product, start AutoCAD and follow the on-screen instructions.

Install AutoCAD Using Custom Settings on a Stand-Alone Computer

With this method, you can customize your installation.

To install the product using custom settings

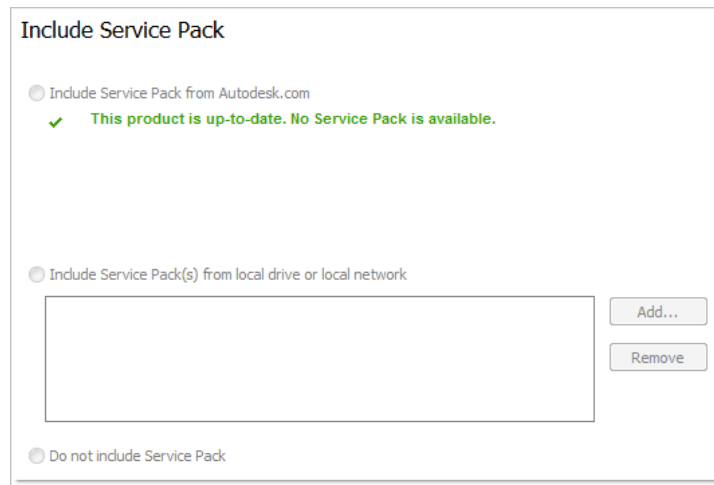
- 1 Start the AutoCAD Installation wizard.
- 2 On the initial page, select a language for the installation instructions. Click Install Products.
- 3 On the Select the Products to Install page, select your product(s) and the product language. Click Next.
- 4 Review the Autodesk software license agreement. Click I Accept, and then click Next.
- 5 On the User and Product Information page, enter your user information, serial number, and product key. Click Next.

WARNING After you click Next, you cannot change the information entered on this page unless you uninstall the product.

- 6 On the Begin Installation page, click Configure.
- 7 On the Select the License Type page, select the license type (Stand-alone or Network). Click Next.
- 8 On the Select the Installation Type page, specify the following:
 - *Installation Type.* Select Typical to install the most common application features. Select Custom to install only the application features that you select from the Select Features to Install list.
 - *Create the Desktop Shortcut for AutoCAD - <Language>.* Clear the check box if you do not want to create a shortcut to the program.
 - *Product Install Path -* Specify the drive and location where you want to install AutoCAD.

Click Next.

- 9 On the Include Service Pack page, specify whether to include available service packs. The installer automatically checks *autodesk.com* for available updates.



- 10 Click another product tab to configure another product, or click Next and then Configuration Complete to return to the Begin Installation page. Click Install.

NOTE To retain a copy of your configuration settings, click Copy to Clipboard.

- 11 On the Installation Complete page, you can view the installation log or the AutoCAD *Readme*.
- 12 Click Finish.

You have successfully installed AutoCAD. You are now ready to register your product and start using the program. To register the product, start AutoCAD and follow the on-screen instructions.

Register and Activate AutoCAD

The first time you start AutoCAD, the Product License Activation wizard is displayed. You can either activate AutoCAD at that time, or Try AutoCAD and activate it later. Until you register and enter a valid activation code for AutoCAD, you are operating the program in *trial mode* and the Product License Activation wizard is displayed for 30 days from the first time that you run the program.

If after 30 days of running AutoCAD in trial mode you have not registered and provided a valid activation code, your only option is to register and

activate AutoCAD. You will not be able to run in trial mode after the 30 days expires. Once you register and activate AutoCAD, the Product License Activation wizard is no longer displayed.

The fastest and most reliable way to register and activate your product is by using the Internet. Simply enter your registration information and send it to Autodesk over the Internet. Once you submit your information, registration and activation occur quickly.

To register and activate AutoCAD

- 1 Click the Start menu ► Programs or All Programs ► Autodesk ► *<AutoCAD>* ► *<AutoCAD>*.
- 2 In the AutoCAD Product License Activation wizard, select Activate, and then click Next.
This starts the activation process.
- 3 Click Register and Activate (Get an Activation Code).
- 4 Click Next and follow the on-screen instructions.
If you do not have Internet access, or if you want to use another method of registration, you can register and activate AutoCAD in one of the following ways:
Email Create an email message with your registration information and send it to Autodesk.
Fax or Post/Mail Enter your registration information, and fax or mail the information to Autodesk.

Launch AutoCAD

Assuming that you followed all of the previous steps outlined in this installation section, you can launch AutoCAD and start taking advantage of its new and updated features. For more detailed information about the new features, learning videos, online Help, or AutoCAD services and support, see the Welcome screen after you launch the product.

You can start AutoCAD in the following ways:

- **Desktop shortcut icon.** When you install AutoCAD, an AutoCAD shortcut icon is placed on your desktop unless you cleared that option during installation. Double-click the AutoCAD shortcut icon to start the program.

- **Start menu.** On the Start menu, click Programs or All Programs ► Autodesk ► *<AutoCAD>* ► *<AutoCAD>*.
- **Location where the AutoCAD is installed.** If you have administrative permissions, you can run AutoCAD in the location where you installed it. If you are a limited-rights user, you must run AutoCAD from the Start menu or from the desktop shortcut icon. If you want to create a custom shortcut, make sure that the Start In directory for the shortcut points to a directory where you have write permissions.

Add or Remove Features

You can add or remove AutoCAD features at any time. For example, you may have chosen a Custom installation option when you first installed AutoCAD, but now you want to add features that you did not install originally. Or you may no longer need to use all of the features that were installed originally. You can add or remove features by using the Add or Remove Programs dialog box.

To add or remove features

- 1 Click the Start menu ► Programs or All Programs ► Autodesk ► *<AutoCAD>* ► *<AutoCAD>*.
- 2 In the Add or Remove Programs (XP) or Uninstall or Change a Program (Vista) dialog box, click AutoCAD, and then click Change/Remove. The AutoCAD Installation wizard re-opens in Maintenance Mode.
- 3 Click Add or Remove Features.
- 4 On the Add/Remove Features page, select a feature to install or uninstall. The icons to the left of the selections give you an indication of the action that will be taken.



Indicates a feature that was marked for installation will be in a typical installation.



Indicates a feature that is not currently scheduled for installation.



Indicates a feature that was not originally marked for installation, but was added to the installed feature list.



Indicates an installed feature that is chosen for removal.

NOTE If you need to revert to AutoCAD features that you selected in your original installation, click Cancel.

Click Next.

- 5 On the Update AutoCAD Installation page, click Next.
- 6 On the Update Complete page, you are informed when the updates have been performed. Click Finish.

Reinstall or Repair AutoCAD

If you accidentally delete or alter files that are required by AutoCAD, AutoCAD might not perform correctly, and you might receive error messages when you try to execute a command or find a file. You can attempt to fix this problem by reinstalling or repairing AutoCAD. The reinstallation or repair uses the features that were part of the installation type you chose when you initially installed the program.

To reinstall or repair AutoCAD

- 1 Click the Start menu ➤ Programs or All Programs ➤ Autodesk ➤ <AutoCAD> ➤ <AutoCAD>.
 - 2 Then, do one of the following:
 - (Windows XP) In the Add or Remove Programs window, select AutoCAD, then click Change/Remove.
 - (Windows Vista) In the Uninstall or Change a Program, select AutoCAD, then click Uninstall/Change.
- The AutoCAD Installation wizard re-opens in Maintenance mode.
- 3 Select Repair or Reinstall. On the Select Repair or Reinstall page, select one of the following options, and then click Next to start the process.
 - **Repair My <AutoCAD> Installation.** This option replaces all registry entries that AutoCAD initially installed and restores AutoCAD to its default state. If you are missing AutoCAD files, use this option.
 - **Reinstall My <AutoCAD> Installation.** This option repairs the registry and reinstalls all files from the original installation. Use this option if the Repair My <AutoCAD> Installation option does not solve the problem.

- 4 On the Repair Complete page, click Finish.

Uninstall AutoCAD

When you uninstall AutoCAD, all components are removed. This means that even if you've previously added or removed components, or if you've reinstalled or repaired AutoCAD, the uninstall removes all AutoCAD installation files from your system.

To uninstall AutoCAD

- 1 Click the Start menu ► Programs or All Programs ► Autodesk ► <AutoCAD> ► <AutoCAD>.
 - 2 Then, do one of the following:
 - (Windows XP) In the Add or Remove Programs window, select AutoCAD, then click Change/Remove.
 - (Windows Vista) In the Uninstall or Change a Program window, select AutoCAD, then click Uninstall/Change.
- The AutoCAD Installation wizard re-opens in Maintenance mode.
- 3 Click Uninstall.
 - 4 On the Uninstall <AutoCAD> page, click Next to remove AutoCAD from the system.
 - 5 When informed that the product has been successfully uninstalled, click Finish.

NOTE Even though AutoCAD is removed from your system, the software license remains. If you reinstall AutoCAD at some future time, you will not have to register and re-activate the program.

Installing Multiple or Bundled Products

Some Autodesk packages are comprised of multiple products or are part of multi-product bundles.

In the installation wizard, for packages containing multiple products, you can choose which products and languages you want to install. During the install process, you are informed whether a copy of the software is already installed.

You are also warned if your system does not meet the minimum system requirements for the product. Each product name is displayed on its own tabbed panel; you can configure them individually.

If you purchased a package that is a multi-product bundle, such as an educational or institutional package, you may have a package that includes several Autodesk products. For these bundled packages, an Installer disc contains information for all the products in the package. The Installer disc helps you install all of the products.

Installing Design Review

Autodesk Design Review 2011 is not installed by default when you install AutoCAD. It is recommended that Design Review be installed if you need to view DWF or DWFX files.

NOTE If you are installing Autodesk Design Review 2011, it is recommended that you first manually uninstall older versions of Autodesk Design Review and any other DWF viewers using Add or Remove Programs (XP), or Programs and Features (Vista). After uninstalling, check the program folders to make sure they are empty before installing Design Review 2011.

Autodesk Design Review is a free program used for creating and reviewing DWF or DWFX files. An open, published, and secure file format developed by Autodesk, DWF enables you to combine and publish rich 2D- and 3D-design data, and share it with others.

The following commands create DWF or DWFX files.

- PUBLISH
- PLOT
- 3DDWF
- PUBLISH TO WEB
- EXPORT
- AUTOPUBLISH
- SSM

NOTE If you use Windows Vista, you can use the Microsoft XPS Viewer to view and print DWFX files without installing Design Review.

Installing Autodesk Material Libraries

The Autodesk material libraries are shared libraries installed with Autodesk products such as Inventor, AutoCAD, Revit and 3ds Max.

NOTE If you uninstall or remove a library, the library is no longer available for any product. Uninstalling also means you will be unable to view or display drawings that have materials currently in them.

The Autodesk material libraries include the following:

- **Autodesk Material Library 2011 (CM):** Contains the new material library (approximately 256 x 256). This library is installed by default, and required for AutoCAD to have full visual style and color style functionality. It is recommended that you do not uninstall this library unless you are also uninstalling all Autodesk products that require this library.
- **Autodesk Material Library 2011 Base Image Library (ILL):** Contains low resolution images (approximately 512 x 512) for use with Autodesk materials. This is also installed by default. It is recommended that you do not uninstall this library unless you are also uninstalling all Autodesk products that require this library.
- **Autodesk Material Library 2011 Medium Image Library (ILM):** Contains medium resolution images (approximately 1024 x 1024) for rendering materials in medium detail. This library is used for close-ups, and for rendering objects at a larger scale. This library is an installation option available on the Select Products to Install page in the installation wizard.

If you uninstall the Base Image Library, and do not have the Medium Image Library installed, the lowest resolution library (Material Library) is used.

Reinstall Autodesk Material Libraries

If you uninstall or delete material libraries, you can reinstall them to regain visual style and color style functionality. You must reinstall the Material Library (CM) before the Base (ILL) and Medium (ILM) Libraries. The Windows installer log will be inaccessible if the libraries are not reinstalled in the recommended order.

To reinstall Autodesk Material Library 2011

- From the product media, browse to and run:
`\support\ADSKMaterials\CM\ProteinMaterials.msi`

To reinstall Autodesk Material Library 2011 Base Image Library

- From the product media, browse to and run:
`\support\ADSKMaterials\ILL\BaseImageLibrary.msi`

To reinstall the Autodesk Material Library 2011 Medium Image Library

- 1 Insert the media. Select Install Products from the installation wizard.
- 2 On the Select the Products to Install page, select Autodesk Material Library 2011 Medium Image Library, and then click Next.
- 3 Review the Autodesk software license agreement. Click I Accept, and then click Next.
- 4 On the User and Product Information page, enter your user information, serial number, and product key. Click Next.
- 5 On the Begin Installation page, click Install.
- 6 On the Installation Complete page, click Finish.

Migrating and Customizing

2

If you have a previous version of AutoCAD installed on your system, you can install a newer version of AutoCAD and keep other versions of the program on the same system. This is called a *side-by-side* installation. If you have purchased an *upgrade* version of AutoCAD, you are required to uninstall the previous version within 120 days of installing your newer product. See your license agreement for more information.

In this section, you learn about migrating from previous releases and using customized files from previous releases.

Migrate Custom Settings and Files from Previous Releases

You can migrate your custom settings and files from previous releases of AutoCAD to your new release. It is recommended that you migrate from a previous release right away. This prevents you from overwriting files or having to keep track of any custom settings you may make in the new release. Migrating settings overwrites any new settings.

You can use the following tools to migrate settings and files:

- **Migrate Custom Settings dialog box.** Migrates user profiles, CUI and CUIx files, tool palette files, AutoCAD and user-defined linetype files, AutoCAD and user-defined hatch patterns, and the *acad.pgp* file (a file that stores command definitions and aliases). The Migrate Custom Settings dialog box is displayed when you start the product for the first time. You can also migrate settings later from the Start menu (Windows).

NOTE The release of the product from which you are migrating determines which custom settings and files can be migrated to the new release.

- **Customize User Interface dialog box.** Converts legacy menu (MNU and MNS) and CUI files to the CUIx format while leaving the original file unchanged. Migrating user interface elements, transferring data between customized files, and customizing user interface elements are simplified in this dialog box. For more information about the CUIx file format and how to migrate menu and CUI files, see User Interface Customization in the *Customization Guide*.
- **Migration tools.** Aid migration of settings or files that cannot be automatically migrated (such as AutoLISP® files and the accompanying MNL files) or that require you to make a decision about which files to migrate (such as which files in a set of drawing files). Download these migration tools by visiting www.autodesk.com and then performing a search on Migration Tools.

NOTE For information about customizing files and settings, see the *Customization Guide*, accessible from the Documentation link on the AutoCAD Installation wizard and in the Help system.

Migrate Custom Settings

If you install AutoCAD on a computer where a previous release of the AutoCAD product is installed, you can migrate some custom settings from a previous release to your newer AutoCAD product.

Migrate the user profile. This file contains drawing environment settings such as screen color, cursor size, command line window font, and the dictionary to use for checking spelling. The user profile file also includes the folders in which AutoCAD searches for support, driver, customization, and other files. If you customized files in a location other than the default AutoCAD location, the path to the location is migrated. The files themselves do not get migrated.

Migrate linetypes, hatch patterns, and command aliases that you created. The data from these files is added to a user-defined section of the AutoCAD files, to make it easy for you to find this information and migrate this data to future releases. You cannot use the Migrate Custom Settings dialog box to migrate shell commands or comments that you made to your *acad.pgp* file.

NOTE If you have made changes to partial plotter configuration (PC3) files that are located in a custom folder, those files are migrated to the *AutoCAD PC3* folder, which is located under your custom *PC3* folder. PC3 files are migrated to a separate folder to maintain backward compatibility with previous AutoCAD releases.

The following table lists the files that are migrated with the Migrate Custom Settings dialog box, a description of each file, and file details to help you decide if you want to migrate a file.

Files Migrated with the Migrate Custom Settings Dialog Box		
File Name	File Description	Details
<i>*.atc</i>	Defines a tool palette and its tools.	User-created files and any new or changed tools on a standard tool palette are migrated.
<i>*.arg</i>	Used to back up user profile information from the system registry. The ARG file is not migrated. Registry settings are migrated.	Changes you make to your user profile are stored in the system registry and are migrated.
<i>*.lin</i>	Stores your user-defined linetypes.	User-defined linetype files are migrated.
<i>acad.lin</i>	Contains standard linetype definitions (an AutoCAD library file).	The file itself is not migrated; however, any linetypes that you created in this file are migrated to the AutoCAD <i>acad.lin</i> file, in the <i>User Defined Linetypes</i> section of the file.
<i>acadiso.lin</i>	Contains metric linetype definitions (an AutoCAD library file).	The file itself is not migrated; however, any linetypes that you created in this file are migrated to the AutoCAD <i>acadiso.lin</i> file, in the <i>User Defined Linetypes</i> section of the file.
<i>*.pat</i>	Stores user-defined hatch patterns.	User-defined hatch pattern files are migrated.
<i>acad.pat</i>	Contains standard hatch pattern definitions (an AutoCAD library file).	The file itself is not migrated; however, any hatch patterns that you created in this file are copied to the AutoCAD <i>acad.pat</i> file, in the <i>User Defined Hatch Patterns</i> section of the file.

Files Migrated with the Migrate Custom Settings Dialog Box

File Name	File Description	Details
<i>acadiso.pat</i>	Contains metric hatch pattern definitions (an AutoCAD library file).	The file itself is not migrated; however, any metric hatch patterns that you created in this file are copied to the AutoCAD <i>acadiso.pat</i> file, in the <i>User Defined Hatch Patterns</i> section of the file.
<i>acad.pgp</i>	Stores shell commands and command alias definitions (a program parameters file in ASCII text form).	The file itself is not migrated; however, any command aliases you created in this file are copied to the AutoCAD <i>acad.pgp</i> file.
<i>*.mnu</i>	Contains menu customization from a release prior to AutoCAD 2006.	The file itself is not migrated; a copy of the file is created and converted into a CUIx file with the same name. The new CUIx file is stored in the same folder as the main CUIx file. An MNU file is converted when an MNS file with the same name is not found.
<i>*.mns</i>	Contains menu customization from a release prior to AutoCAD 2006.	The file itself is not migrated; a copy of the file is created and converted into a CUIx file with the same name. The new CUIx file is stored in the same folder as the main CUIx file. An MNS file is converted whether or not an MNU file with the same name is present.
<i>*.cui</i>	Contains customizations from AutoCAD 2006 through .	The file itself is not migrated; a copy of the file is created and converted into a CUIx file with the same name. The new CUIx file is stored in the same folder as the main CUIx file. Enterprise CUI files are not automatically migrated. You must do so manually.
<i>*.cuix</i>	Contains customizations from and later.	If the CUIx file is supplied by Autodesk, the custom changes made

Files Migrated with the Migrate Custom Settings Dialog Box

File Name	File Description	Details
		to the file are migrated to the newer version of the CUIx file. If the CUIx file is not supplied by Autodesk, the file is migrated and copied to the location of the main CUIx file, unless the CUIx file is in a network location. In that case, the file is migrated but is not copied to the location of the main CUIx file. Enterprise CUIx files are not automatically migrated. You must do so manually.

Before MNU, MNS, CUI, and CUIx files are migrated, a backup copy of each file is saved in the following directory:

- (Windows XP) <drive>:\Documents and Settings\<user profile>\Application Data\Autodesk\<product version>\<release number>\<language>\Previous Version Custom Files
- (Windows Vista) <drive>:\Users\<user profile>\Application Data\Autodesk\<product version>\<release number>\<language>\Previous Version Custom Files

NOTE Other custom settings and files can be migrated using Autodesk migration tools. For more information about migration tools, see [Use Migration Tools](#) on page 25.

To migrate custom settings when you start the AutoCAD

- 1 Start AutoCAD.
- 2 In the Migrate Custom Settings dialog box, Migrate Settings From drop-down list, select the AutoCAD release from which you want to migrate your custom settings.
- 3 In the Settings and Files to Migrate box, select the custom files that you want to migrate.
- 4 Click OK.

- 5 In the Migrate Custom Settings message, click OK to view the log file, or click No if you do not want to view the log file now.

NOTE You can view the log file at another time. For information about accessing the log file at another time, see [View the Migration Log File](#) on page 24.

Each time the Migrate Custom Settings dialog box is used, AutoCAD resets the program's default CUIx file from the *UserDataCache* folder and then migrates any customization done in a previous release forward.

To migrate custom settings from the Start menu (Windows)

- 1 Do one of the following:
 - (Windows XP) Click Start menu ► Programs ► Autodesk ► <AutoCAD> ► Migrate Custom Settings ► Migrate From a Previous Release.
 - (Windows Vista) Click Start menu ► All Programs ► Autodesk ► <AutoCAD> ► Migrate Custom Settings ► Migrate From a Previous Release.
- 2 In the Migrate Custom Settings dialog box, Migrate Settings From drop-down list, select the AutoCAD release from which you want to migrate your custom settings.
- 3 In the Settings and Files to Migrate box, select the custom files that you want to migrate.
- 4 Click OK.
- 5 In the Migrate Custom Settings message, click OK to view the log file, or click No if you do not want to view the log file.

NOTE To be accessible, pull-down menus that are migrated from a MNU/MNS file to a CUIx file need to be added to a workspace.

View the Migration Log File

The migration log file (*migration.xml*) provides specific information about any settings or files that were not successfully migrated to AutoCAD. The log file shows all the files that were successfully copied from a previous version to the

newer AutoCAD. It also provides information about files that were not successfully migrated. Use the log for troubleshooting if there are unwanted or unexpected results in your AutoCAD profiles.

After you use the Migrate Custom Settings dialog box to migrate custom settings and files, a message is displayed from which you open the migration log file. You can view the migration log file at that time. You can also navigate to the file if you want to view the log details another time.

To locate and view the migration log file

- 1 In Windows Explorer, navigate to the following location:
 - (Windows XP) <drive>:\Documents and Settings\<user profile>\Application Data\Autodesk\<product version>\<release number>\<language>\Migration
 - (Windows Vista) <drive>:\Users\<user profile>\Application Data\Autodesk\<product version>\<release number>\<language>\Migration
- 2 Double-click *migration.xml* to open the file, and view the details of your migration.

Restore Profiles After Migrating Files from an Earlier Release

After you migrate your profiles from an earlier AutoCAD release, you may want to restore the newer AutoCAD default profile settings.

To restore AutoCAD default profiles

- 1 On the Application menu, click Options.
- 2 In the Options dialog box, Profiles tab, click the profile you want to restore and click Reset.
- 3 Click Yes.
The profile is reset to the newer default profile.

Use Migration Tools

Migration tools take the guesswork out of updating your custom files from previous releases. The tools help you to share drawings when you upgrade to

a new release of an AutoCAD product. You can download the migration tools in several languages from the Autodesk website.

NOTE Because these are public tools, product support for them is limited to the Autodesk discussion groups.

The migration tools are as follows:

- **DWG TrueView 2011.** You can view, plot, and convert any AutoCAD product or an AutoCAD product-based drawing file for compatibility with the current AutoCAD drawing file formats.
- **ScriptPro.** Using ScriptPro, you can apply a set of commands to multiple drawings by specifying a script file and the list of drawings to which you want to apply the script.
- **AutoLISP Compatibility Analyzer.** Details AutoCAD compatibility issues found in AutoLISP files and the accompanying menu (MNL) files. When a compatibility issue is found, the tool provides an explanation of the issue and suggestions on how to correct it.

Customize AutoCAD with Initial Setup

With Initial Setup you can perform some basic customization of AutoCAD.

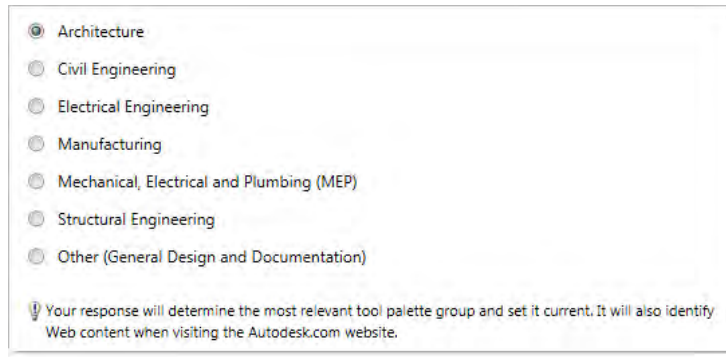
You respond to a series of questions that are used to gather information about specific features and settings in AutoCAD. You specify which industry best describes your work, add task-based tools to your default workspace, and specify the drawing template you want to use when creating a new drawing.

Select an Industry

When Initial Setup is displayed, you are prompted to select an industry. Select one of the listed industries that is closest to the type of work that best describes the drawings you create. The following features and settings in AutoCAD and Initial Setup are affected by the industry you select:

- **Content Search.** Used as part of a generated query to find content from Autodesk Seek.
- **Partner product search.** Used as part of a generated query that is sent to the Autodesk Partner Products website to find relevant third-party utilities that might be beneficial to your work.

- **Initial Setup.** Used to determine which drawing template file might be appropriate to your industry for new drawings when compared to the supplied default templates that come with AutoCAD.



☒ Architecture

☐ Civil Engineering

☐ Electrical Engineering

☐ Manufacturing

☐ Mechanical, Electrical and Plumbing (MEP)

☐ Structural Engineering

☐ Other (General Design and Documentation)

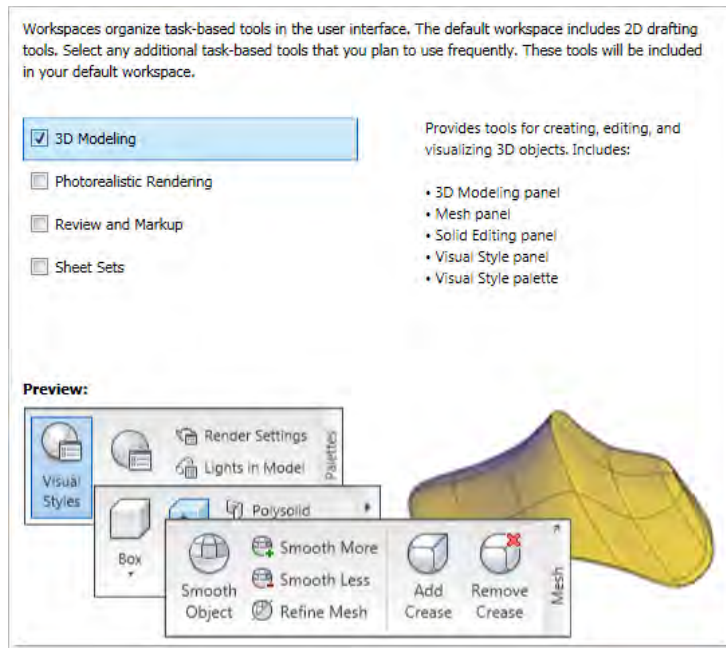
! Your response will determine the most relevant tool palette group and set it current. It will also identify Web content when visiting the Autodesk.com website.

Add Task-based Tools

With Initial Setup, you can add task-based tools to your default workspace (for example tools to review red-line markups created from Autodesk Design Review or tools used to create photorealistic renderings).

The following task-based tools can be added to your default workspace from Initial Setup:

- 3D modeling
- Photorealistic rendering
- Review and markup
- Sheet sets



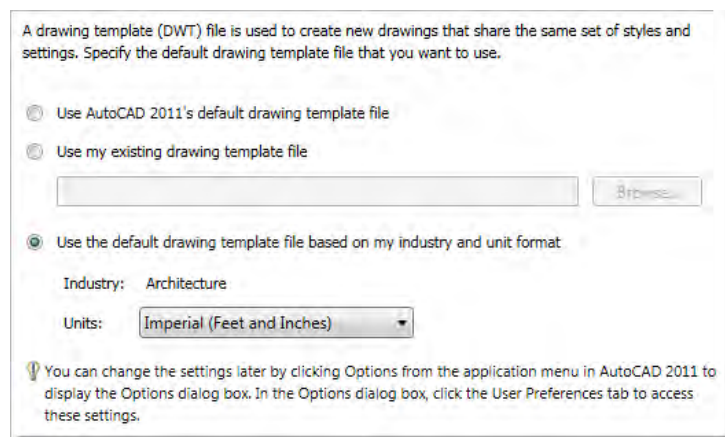
You can use the Customize User Interface (CUI) Editor to further control which task-based tools are displayed in a workspace. For more information about workspaces, see *Customize Workspaces* in the *Customization Guide*.

Specify a Default Drawing Template

With drawing templates you can reuse a set of settings and styles when you create a new drawing. In Initial Setup you can specify the default drawing template to use when you create a new drawing. Initial Setup has the following drawing template options:

- **Default drawing template.** Use the imperial or metric drawing template that is installed by default.
- **Existing drawing template.** Specify an existing drawing template that is available on a local or network drive.
If you migrated your custom settings and files from a previous release, the migrated default drawing template file is listed. For information about migrating custom settings and files from a previous release, see [Migrate Custom Settings](#) on page 20.

- **Industry focused drawing template.** Use the drawing template that is associated with the industry you selected in Initial Setup, and either the imperial or metric measurement type.



Drawing templates are often project- or company-specific to ensure consistent styles and settings from one drawing to the next. It is recommended that you use a drawing template that follows your company's CAD standards.

For information about creating a custom drawing template, see *Use a Template File to Start a Drawing* in the *User's Guide*.

To customize AutoCAD with Initial Setup

- 1 Click the Application menu button ► Options.
- 2 In the Options dialog box, User Preferences tab, click Initial Setup.
- 3 In Initial Setup, Industry page, specify an industry that best describes your work. Click Next.
- 4 On the Optimize Your Workspace page, select the task-based tools you want to display in your default workspace. Click Next.
- 5 On the Specify a Drawing Template File page, select the drawing template file that you want to use when creating new drawings. Click Finish.
- 6 In the Options dialog box, click OK.

Export and Import Custom Settings from the Same Release

You can export your custom settings between systems running the same release of an AutoCAD product, or export the custom settings and later re-import them on the same computer if you need to reinstall AutoCAD. When exporting custom settings, a migration package is created that contains an XML file. This file contains custom settings, a listing of the custom files from local locations used with AutoCAD, and optionally, custom files in network locations.

The migration package is a ZIP file archive, so it has the file extension ZIP. During the import process, you select the ZIP file archive that contains the exported custom settings you want to merge onto your computer.

The following table lists the file types that are most commonly included in the migration package that is created from the Export Custom Settings dialog box.

Most Common File Types Included in the Migration Package

File Name	File Description
<i>*.atc</i>	Tools defined on a tool palette and the tool palette catalog. The file is not migrated from release to release, but is from computer to computer with the migration package.
<i>*.aws</i>	Order of the tools as they appear on a tool palette and other local settings. The file is not migrated from release to release, but is from computer to computer with the migration package.
<i>*.bmp</i>	Image used for a command in a customization file.
<i>*.ctb</i>	Settings used to control the appearance of objects when plotting; the settings are arranged by the colors of the AutoCAD Color Index (ACI) system.
<i>*.cuix</i>	Information for commands and user interface elements.
<i>*.cus</i>	Custom dictionary entries.
<i>*.fmp</i>	Information about font mappings for True Type Fonts used in the In-place Text Editor.

Most Common File Types Included in the Migration Package

File Name	File Description
<i>*.ini</i>	Configuration settings for some features.
<i>*.lin</i>	Linetype definitions.
<i>*.mln</i>	Multiline style definitions.
<i>*.mnl</i>	AutoLISP commands and procedures that a customization file is dependent on; must have the same name as a customization file in order to be loaded by the product.
<i>*.pat</i>	Hatch pattern definitions.
<i>*.pc3</i>	Configuration information for a plotter or printer.
<i>*.pgp</i>	Shell commands and command alias definitions.
<i>*.pmp</i>	Calibration and paper size settings that are used with a PC3 file.
<i>*.psf</i>	Information about font substitution when exporting to a Postscript file.
<i>*.shx</i>	Information about text characters or shapes used with linetype definitions.
<i>*.stb</i>	Settings used to control the appearance of objects when plotting; the settings are grouped into names that can be assigned to a layer or object.
<i>*.xml</i>	Information about the user profiles in the product and the original locations of the files in the export package.

The following table lists the file types that are not included in the migration package that is created from the Export Custom Settings dialog box.

Some of the File Types Not Included in the Migration Package

File Name	File Description
<i>*.actm</i>	Action macro file.
<i>*.arx</i>	ObjectARX application file.
<i>*.dcl</i>	Definitions for custom dialog boxes used with AutoLISP, ADS, or ObjectARX applications.

Some of the File Types Not Included in the Migration Package	
File Name	File Description
*.dvb	Visual Basic for Applications project file.
*.fas	Fast-load AutoLISP format file.
*.fdc	Definitions for fields; should not be modified.
*.lli	Landscape library; this file type is no longer supported due to the removal of the LANDSCAPE command.
*.lsp	AutoLISP source file that contains definitions for custom commands and functions.
*.mli	Render material library; this file type is no longer supported due to changes to the MATERIALS command.
*.mnr	Resource images for a customization file; must have the same name as a customization file in order to be loaded by the product. The file is not included because it is auto-generated by the product when it is not present.
*.udl	Data connection settings used with dbConnect.
*.unt	Unit definitions used for converting a value from one unit type to another.
*.vlx	Visual LISP file that might contain multiple AutoLISP and DCL files compiled into a single file.
NOTE For information about customizing files and settings, see the <i>Customization Guide</i> , accessible from the Documentation link on the AutoCAD Installation wizard and in the Help system.	

Export Custom Settings

When exporting custom settings, the custom files stored locally and all user profiles are exported to a migration package. You have the option to include custom files that are stored in network locations. During the creation of the migration package, you do not have any control over which types of files are included in the migration package.

The Export Custom Settings dialog box is used to create the migration package so it can be imported to another computer or the same computer running the same release of the product.

NOTE You must launch AutoCAD at least once before you can export custom settings to a migration package.

To export custom settings

- 1 Do one of the following:
 - (Windows XP) Click Start menu ► Programs ► Autodesk ► <AutoCAD> ► Migrate Custom Settings ► Export <AutoCAD> Settings.
 - (Windows Vista) Click Start menu ► All Programs ► Autodesk ► <AutoCAD> ► Migrate Custom Settings ► Export <AutoCAD> Settings.
- 2 In the Export Custom Settings dialog box, select the Include Custom Files in Networked Locations option if you have files in network locations that you want included in the migration package that is created.
- 3 Click Export.
- 4 In the Export Custom Settings file navigation dialog box, enter a name and specify a location for the migration. Click Open.
A new ZIP file is created.
- 5 In the confirmation message box, click OK.

Import Custom Settings

By importing a migration package, you can configure AutoCAD in the same way as other computers that are running the same release of the product. Upon the successful import of the migration package, a message box is displayed giving you the option of viewing the migration log that is created. If any errors are encountered during the import process, they are logged in the migration log.

If files from a network location were added during the creation of a migration package, the files are copied to a different location only when the original network locations are not available when importing a migration package. If the files from a network location are found in the same location on the network, the files are not copied to the network location and are ignored during import.

During the import process, if the user profile <<Unnamed Profile>> exists, the user profile is automatically backed up before the migration package is imported. Local paths that exist as part of a user profile in a migration package are created automatically during the import process, but paths that are on a network drive or a drive that uses removable discs, are not created automatically.

NOTE You must launch AutoCAD at least once before you can import a migration package.

To import custom settings from a computer with the same release of AutoCAD

- 1 Do one of the following:
 - (Windows XP) Click Start menu ► Programs ► Autodesk ► <AutoCAD> ► Migrate Custom Settings ► Import <AutoCAD> Settings.
 - (Windows Vista) Click Start menu ► All Programs ► Autodesk ► <AutoCAD> ► Migrate Custom Settings ► Import <AutoCAD> Settings.
- 2 In the Import Custom Settings file navigation dialog box, select the ZIP file that contains the custom settings that were exported. Click Open.
- 3 On the AutoCAD message box, click OK.
Optionally, select the Display Log File After Closing This Dialog option before clicking OK to display the log file that was created during the importing of the migration package.

To view the migration log after custom settings imported

- 1 In Windows Explorer, navigate to the following locations: (Windows XP)
\Documents and Settings\<user profile>\Application Data\Autodesk\<product version>\<release number>\<language>\Migration.
(Windows Vista) *\Users\<user profile>\AppData\Local\Autodesk\<product version>\<release number>\<language>\Migration.*
- 2 Double-click *migration.xml* to open the file and view the details of your migration.

Migrating and Customizing Issues

This section outlines common issues and their solutions with regards to migrating and customizing AutoCAD.

What are the benefits of identifying my industry?

By identifying your industry, Initial Setup can determine which default drawing template might be the one that best fits your needs. Along with defining the default drawing template, the industry you choose is also used to:

- **Identify partner products.** Partner products are developed by third-party developers; they extend the base functionality of your product and add specific functionality that is related to your industry. For more information about partner products, see <http://partnerproducts.autodesk.com/>.
- **Control Autodesk Seek results.** Autodesk Seek is a content search site that contains symbols, specifications, and other design-related content that might be placed into a drawing or bid package. The specified industry filters the information that is found based on the content that is best related to you. For more information about Autodesk Seek, see <http://seek.autodesk.com/>.

How is this information being used?

The information gathered from Initial Setup is used to configure several different features and to help guide the future direction of the program. The following features are customized with Initial Setup:

- The default drawing template (DWT) file used to create new drawings.
- The industry that best relates to you to use for filtering search results on Autodesk Seek.
- Which task-based tools to display in a workspace.

No information is shared with Autodesk about the choices you make unless you participate in the Customer Involvement Program (CIP). For information about the Customer Involvement Program, see Join the Customer Involvement Program in the *User's Guide*.

What happens if I skip or cancel Initial Setup?

If you skip or cancel Initial Setup, AutoCAD is not changed from its current state. You can return to Initial Setup at any time by going to the User Preferences tab in the Options dialog box.

What are the benefits of selecting task-based tools?

Workspaces control which task-based tools are displayed in the Application window and when they are displayed. You can create different workspaces based on the types of drawings you work on. For more information about customizing the user interface and workspaces, see Work with the Customize User Interface (CUI) Editor and Customize Workspaces in the *Customization Guide*.

What is a workspace?

Workspaces are sets of menus, toolbars, palettes, ribbon panels, and ribbon tabs that are organized so you can work in a custom, task-oriented drawing environment. When you use a workspace, only the user interface elements that are relevant to a task are displayed. For more information about customizing workspaces, see Customize Workspaces in the *Customization Guide*.

How do I make changes to a workspace at a later time?

Workspaces are used to control many of the tools displayed in the Application window of AutoCAD. You can modify the current workspace in a limited way from the Application window or you have full control over all aspects of a workspace with the Customize User Interface (CUI) Editor. For more information about customizing workspaces, see Customize Workspaces in the *Customization Guide*.

What is a drawing template file?

A drawing template (DWT) file is used to provide consistency for each new drawing (DWG) file that is created. DWT files can contain named objects, drawing based settings, and geometric objects. Stored named objects include layers, and text and dimension styles among others. Along with named objects, a DWT file can hold values for drawing based system variables, and any geometric object that might be common across multiple drawings such as a title block. For information about using a DWT file, see Use a Template File to Start a Drawing in the *User's Guide*.

How do I modify drawing templates at a later time?

Drawing template (DWT) files are no different than a drawing (DWG) file, with the exception of its file extension. Once a DWT file is opened, you can modify named objects such as layers, and text and dimension styles just as you would in a drawing. You open a DWT file with the OPEN command.

To open a drawing template (DWT) file

- 1 Click the Application menu button ► Open.
- 2 In the Select File dialog box, select Drawing Template (*.dwt) from the Files of Type drop-down list.
- 3 Browse to and select the drawing template (DWT) file you want to modify.
- 4 Click Open.
- 5 Make the desired changes to the DWT file.
- 6 Click the Application menu button ► Save.

What are the benefits of customizing AutoCAD?

Customizing AutoCAD provides many benefits that can increase your productivity and make your drawings have a consistent appearance. Customization can be as simple as creating a block that can be used in many drawings over and over again, such as a title block, or customizing the user interface with the Customize User Interface (CUI) Editor. For information about customizing the user interface, see Work with the Customize User Interface (CUI) Editor in the *Customization Guide*.

Network Administration and Deployment

3

Network administration and deployment requires careful planning and execution. This section gives you information about how to prepare for deployment, set up and customize a deployment, and distribute the program.

Preparing a Deployment

To prepare for a deployment, you should take the time to review the following requirements and options.

System Requirements for Administrative Image

This section contains the system requirements for the location of the administrative image.

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. For complete system requirements, see [System Requirements](#) on page 1.

The program will automatically detect if the Windows operating system is the 32- or 64-bit version 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 vice-versa.

See the following tables for administrative image system requirements.

Hardware and Software Requirements - Administrative Image Location		
Hard disk	2 GB or above (recommended)	The location where you create the administrative image must be a shared location so that users can access the administrative image.

Choose an Installation Type

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

Stand-Alone installation (Stand-Alone option) Choose this type of installation for stand-alone installations where a single serial number and product key are 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.

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

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 runs

on the maximum number of systems for which you have licenses. This means you get a true floating license.

Choose a License Server Model

If you chose the Network License 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.

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 *Autodesk Licensing* guide. It is strongly recommended that you also read that guide before you deploy the program. You can find *Autodesk Licensing* guide by clicking the *Read the Documentation* selection, the *Documentation* link at the lower-left corner of the deployment wizard, or in the Help system.

Create a Network Share

Once you have fully prepared for creating a deployment, you are ready to set up and distribute AutoCAD by creating a network share location (folder). 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.

A network, shared folder is required for network license and multi-seat stand-alone methods of installation. Any subfolders that are placed inside a network shared folder are automatically shared.

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 a network share folder

- 1 On your network server's desktop, create a folder named *Deployments*.
- 2 Right-click the *Deployments* folder and click Share 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 *Deployments*, if necessary.
- 5 Click the Permissions button. In the Permissions dialog box enter your group or user names, and make sure Full Control is selected. Click OK. In Vista, right-click the *Deployments* folder and then click Share. In the File Sharing dialog box type in or browse to the name of the group or user you want to share the folder with. Click Add, and then click Share.
- 6 For each product you plan to install, create a subfolder in the *Deployments* folder. Name each folder with the pertinent product name.

Network Tools and Your License Server

If users are running the program using network licenses, you need to use the Network License Manager. The Network License Manager helps you configure and manage license servers. For information about installing and setting up the Network License Manager and licensing tools, see the *Autodesk Licensing* guide.

Setting Up and Creating a Deployment

The deployment process provides you with numerous options for creating, and customizing your deployments, so you should set aside ample time to complete the process in one sitting. To be successful, it is recommended that you review the following checklist and information before you begin. The

deployment process is initiated from the installation wizard's Create Deployments selection. Once a deployment is created, users then access the deployment to install products to their computers.

Prepare for a Network Deployment

Complete the following preliminary tasks before creating a network deployment.

Deployment Checklist

- ☐ Review the system requirements. Confirm your network, servers, and client workstations meet the system requirements.
- ☐ Understand the type of license you have purchased. For a network license deployment, you should also be familiar with the type of license server model you want to use, and the license server name(s).
- ☐ Install and activate any support tools and utilities.
- ☐ Locate your product serial number and product key. These are located on the outside of the product packaging, or in the Autodesk Upgrade and Licensing Information email message.
- ☐ Determine how you intend to personalize the program(s) during registration. Using consistent registration data is very important.
- ☐ Identify the location, and create a shared folder where deployments will reside for each program you plan to deploy.
- ☐ Close all other programs and disable anti-virus software.
- ☐ Decide which language to use for each of your deployment packages.

NOTE Languages can be included only during the creation of the deployment, not during modification.

- ☐ Determine whether your deployment plan involves using imaging software to distribute your program(s) to client workstations.

Deployment Checklist

- ☐ Determine whether to create log files that contain deployment and installation data, and whether to run silent mode.

NOTE When the program is installed from a deployment using silent mode, users' systems automatically reboot without warning when the installation is complete.

- ☐ Determine an installation type (Typical or Custom), and whether to install Express Tools (if applicable).
- ☐ Determine the name and location for the installation folder, and the locations for your support file content.
- ☐ Determine your defined search paths and file locations.
- ☐ Determine whether to include additional files with your deployment, such as drawing files, AutoLISP routines, or script files.
- ☐ Determine your user preferences—including whether to display the Welcome Screen, whether to require Internet Explorer, the default publishing format, and whether to create a desktop shortcut.
- ☐ Check for service packs that might be available for your product.
- ☐ Configure access to Communication Center. Live Update notifications let you know when product updates are posted and configuring Communication Center lets users access technical information.
- ☐ Set up access to online resources, such as DesignCenter, Subscription Center, Help, Customer Error Reporting, and InfoCenter search settings.

Configure Individual Products

You can create a deployment that uses the default product settings, or you can configure each product to be included in the deployment. To configure a product, on the Create Deployment page of the deployment wizard, select the appropriate product from the drop-down list, and click Configure.

The following configuration options are available. See [Your Deployment Choices](#) on page 46 for details about these options.

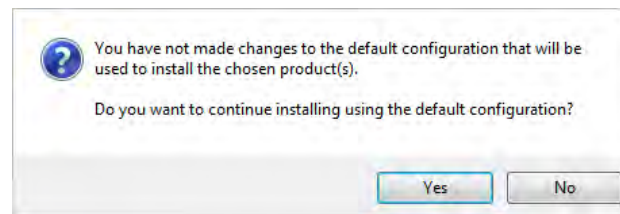
- Select the License Type (Stand-alone or Network license)
- Select the Installation Type (Typical or Custom)
- Install Express Tools
- Select Installation Folders for Support Content
- Define Search Paths and File Locations
- Install Additional Files
- Specify User Preferences
- Include Service Packs
- Configure InfoCenter Communication Center
- Configure Access to Online Resources

When you finish selecting options, click Configuration Complete. The Create Deployment page is redisplayed, where you can confirm your selections. Click Create Deployment.

NOTE To retain a copy of your settings, click Copy to Clipboard.



If you do not want to make configuration changes on the Create Deployment page, click Create Deployment. Then click Yes to continue creating your deployment using the default configuration.

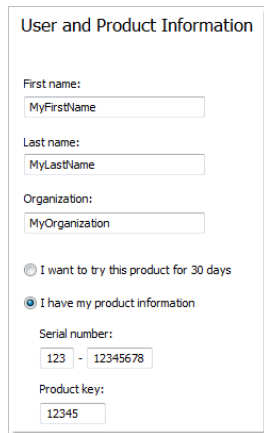


Your Deployment Choices

When you create a deployment, you will make several choices during the process to create various client deployment images and deployment types. The following sections outline your choices in more detail.

Enter User and Product Information

The User and Product Information page is used to personalize the program for your environment. The information you enter is permanently retained with the product and is displayed in the Help menu on all workstations. Because you can't change this information later without uninstalling, take care when entering the information.



User and Product Information

First name:
MyFirstName

Last name:
MyLastName

Organization:
MyOrganization

☐ I want to try this product for 30 days

☒ I have my product information

Serial number:
123 - 12345678

Product key:
12345

You must also enter the product serial number and product key in order to run the product. The serial number and product key are located on the outside of the product packaging, or in the Autodesk Upgrade and Licensing Information email. The serial number must contain a three-digit prefix followed by an eight-digit number. The product key consists of five characters.

Your clients can review this product information later, on the InfoCenter toolbar, click the drop-down arrow next to the Help button (the question mark). Then click About - Product Information.

Creating Log Files

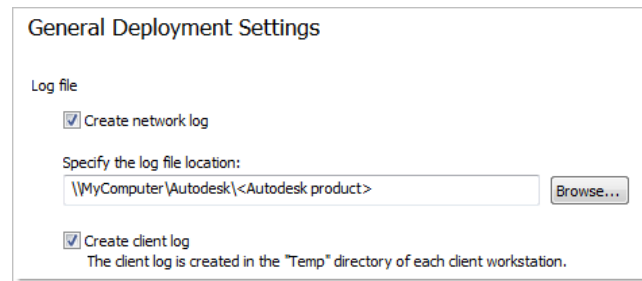
From the General Deployment Settings dialog, you can setup two types of log files with which you can monitor information about deployments and installations.

- **Create network log** The network log file keeps a record of all workstations that run the deployment. On the General Deployment Settings page, 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 encountered during installation (for example, low disc 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\<Autodesk product>`. Users should use their actual computer name in place of *MyComputer*.

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.

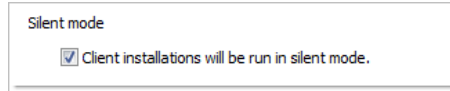
- **Create client log** The client log contains detailed installation information for each workstation. This information may be useful in diagnosing installation problems. The client log is located in the `%Temp%` directory of each client workstation.



What Is Silent Mode?

When silent mode is active and a user initiates the deployment, the installation proceeds without any explicit user input. Users cannot change any of your

installation settings. No dialog boxes are presented that require interaction from the user.



WARNING When the product is installed from a deployment using silent mode, users' systems will reboot automatically and without warning when the installation is complete.

Select a License Type (Optional)

When you set up your deployment, you choose the type of installation to deploy based on the type of software license you purchased: stand-alone or network. You also select the network license server model you want to use to distribute product licenses.

NOTE Depending on the type of option you choose on the configuration page, stand-alone or network license, note that you **must** use the same type of installation for *all* those products in your deployment session. If you select products that do not support the type of license you purchased, you will not be able to activate those products.

Specify the license type to use during deployment

Stand-alone license (a single serial number for a single seat) For a stand-alone license, you install, register, and activate the program on each workstation.

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.

To deploy a stand-alone license

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

Select the License Type

☒ Stand-alone license

☐ Network license

- 2 Click Next.

Specify the license server model during deployment

If you choose the Network License option, you need to decide which license server model to use to distribute your product licenses - single, distributed or redundant license server model. For more information about license server models, see [Choose a License Server Model](#) on page 41.

Select the License Type

☐ Stand-alone license

☒ Network license

Select the license server model you will use with the Network License Manager:

Single License Server

Single License Server

Distributed License Server

Redundant License Server

Browse...

If you are deploying a stand-alone or multi-seat stand-alone installation type, you do not use a license server model.

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.

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

For more information about license server models and setting up your license server, see Plan Your License Server Configuration in *Autodesk Licensing*.

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.
- 3 Enter the name of one of the servers that will run the Network License Manager, or click the Browse 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.

For more information about license server models and setting up your license server, see Plan Your License Server Configuration in *Autodesk Licensing*.

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.
- 3 In the First Server Name field, enter a server name of one server that will run the Network License Manager, or click the Browse 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.

For more information about license server models and setting up your license server, see Plan Your License Server Configuration in *Autodesk Licensing*.

Select the Installation Type (Optional)

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 are included, and specify where the product is installed on each workstation.

Volume	Disk Size	Available	Required	Total Required	Remaining
C:	---	---	631 MB	822 MB	---

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 disc 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 Typical as the type of installation that you want.
- 2 Enter the path on the client workstation where you want to install the program, for example *C:\Program Files\Autodesk\<Autodesk product>*.

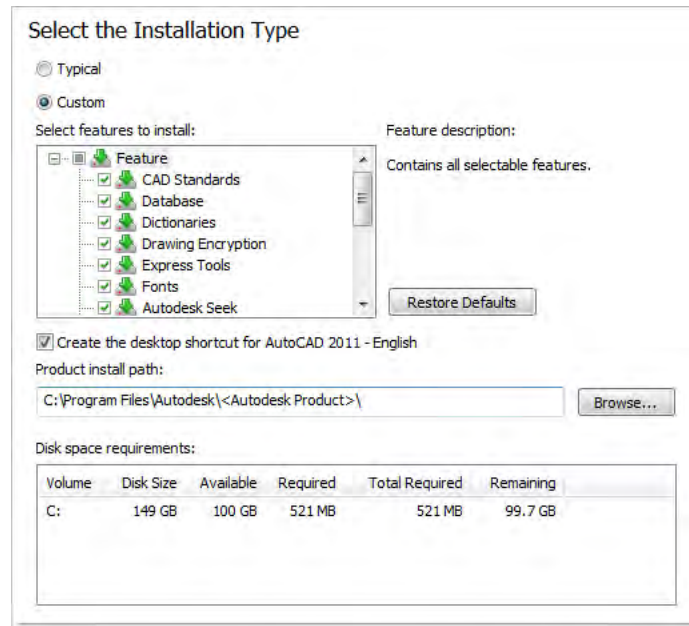
The Disc Space Requirements chart lets you review available drives and disc space.

- 3 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.

If, after making feature changes, you decide you want the original selections, click the Restore Defaults button on the Select the Installation Type page.



- 3 Enter the path on the client workstation where you want to install the program, for example *C:\Program Files\Autodesk\<Autodesk product>*.

The Disc Space Requirements chart lets you review available drives and disc space.

- 4 Click Next.

Select Installation Folders for Support Content

On the Select Installation Folders for Support Content page, you choose where your support content gets installed by specifying a folder other than the default user profile folder used in previous releases. As a network administrator, these options give you greater control over where you place support content during installations or deployments.

Support files consist of six main types:

- Support - Includes customization/menu files, palette content and hatch and linetypes.
- Plotters - Includes plot styles (.ctb files), and plot configuration files (.pc3 and .pmp files).
- Data Links - Contains data links files.
- Template - Includes drawing and Sheet Set templates, and Publish to Web templates.
- Rendering - Includes hardware certification information, and Web Light files.
- Help - Includes User's Guide, Command Reference, New Features Workshop, and various guides and learning resources.

Content	Install Path
Support	<Shared folder path>\Support
Plotters	<Shared folder path>\Plotters
Data Links	<Shared folder path>\Data Links
Template	<Shared folder path>\Template
Rendering	<Shared folder path>\Rendering
Help	<Shared folder path>\Help

Support files (Customization/menu files, Palette content, Hatch/Linetypes)

Among the four options available, you can choose a single shared location, local or network, where all your support content is installed. The illustration and table below outline the other available options.

There are four support content folder options:

Options	Notes
Local user profile folders	<ul style="list-style-type: none">■ Texture maps installed to %ALLUSERSPROFILE%■ All other content installed to %USERPROFILE%\Roaming AppData■ No content stored in %USERPROFILE%\Local AppData
Program install folder	<ul style="list-style-type: none">■ All content is installed to the AutoCAD installation folder on individual user station■ User may need power user privilege to install AutoCAD■ User may need power user privilege to run AutoCAD on a system where support content is installed to the <i>OS Program Files</i> folder
Single shared folder	<ul style="list-style-type: none">■ Allows for a unique network path to be specified for all content types■ Subfolders for content types installed within this location■ When a deployment is pushed to individual workstations, content is copied into the network location only once when the deployment is created
Custom folders	<ul style="list-style-type: none">■ Allows a unique path to be specified for different content types■ Supports local folders and UNC or mapped network paths

An Overwrite Existing Files in Shared Network Folders check box is available when either the Single Shared folder or Custom folder options is selected. If the box is checked, the existing files in the chosen folder are overwritten. No additional warning is given. If the box is unchecked, a warning message is displayed.

Select Installation Folders for Support Content

Install Support Content in: Single shared folder

Shared folder path: Q:\Shared Files\Our Product\ Browse...

☒ Overwrite existing files in shared network folders

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:

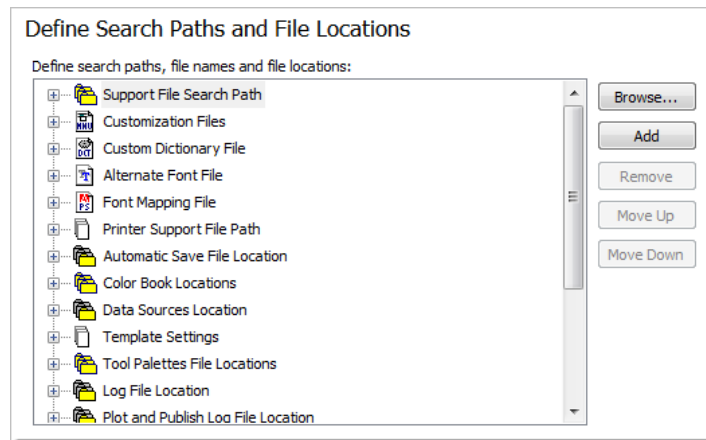
- If your environment uses a file (such as a customization file or plug-ins) other than the default file that's installed with the program, you can point to that file now and avoid having to add it at each workstation.
- Some default file locations may have changed in this version of the program. You 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.

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.



- 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.

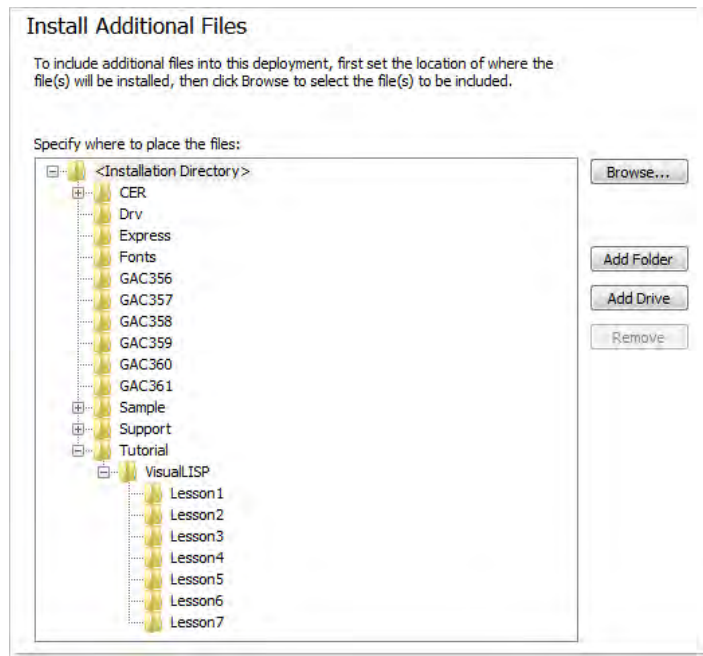
You can perform the following operations:

- Specify additional files (such as drawing files, AutoLISP[®] routines, or script files) to include with your deployment.
- Install user files, of any format, and place them in any directory on the client's workstation.
- 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 the files will be installed.

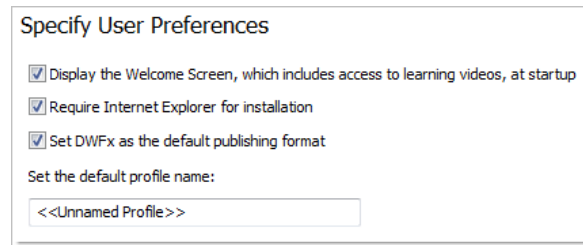


- 2 Do any of the following:
 - Click Browse to open the Add Files dialog box, where you can select files to add to the installation directory.
 - Click Add Folder to create a new folder in the installation directory.
 - Click Add Drive to add a drive name to the file location structure. The drive name must be a valid drive letter and colon, for example C: or F:. Uniform Naming Convention (UNC) paths are not supported.
 - 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 specify:

- Access to the Welcome Screen
- Require Internet Explorer for installation
- Set DWFx as the default publishing format
- Set a default profile name
- Display a desktop shortcut for AutoCAD, or create a custom shortcut

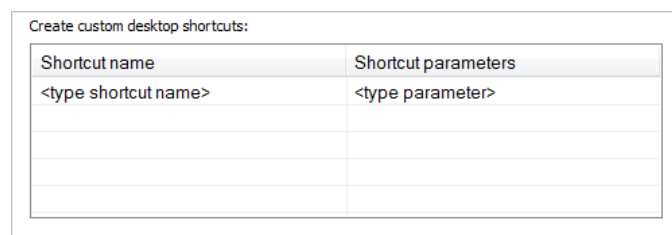


The 'Specify User Preferences' dialog box contains three checked checkboxes: 'Display the Welcome Screen, which includes access to learning videos, at startup', 'Require Internet Explorer for installation', and 'Set DWFx as the default publishing format'. Below these is a text field labeled 'Set the default profile name:' with the value '<<Unnamed Profile>>'.

If you do not require Microsoft Internet Explorer to be installed before AutoCAD is installed, then deselect the Require Internet Explorer for installation.

Your default profile name is the name of all your users will see when they run the deployment.

Clear the check box for Create a Desktop Shortcut for AutoCAD if you do not want the product shortcut icon to appear on the user's desktop. 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, and so on.



The 'Create custom desktop shortcuts' section features a table with two columns: 'Shortcut name' and 'Shortcut parameters'. The first row contains the placeholders '<type shortcut name>' and '<type parameter>'. There are three additional empty rows below.

Shortcut name	Shortcut parameters
<type shortcut name>	<type parameter>

Include Service Packs (Optional)

You have the option to include service packs for your product. You can select to download and apply a service pack from *autodesk.com*, or choose to use a locally stored (local hard drive or local network) service pack. In either case, the service pack will be applied only after the installation of the main product is completed.

If you select the Install Service Pack from *autodesk.com* button, the service pack will be automatically downloaded and you will not need to extract the MSP file.

If you choose to include a service pack from a local or network drive, you will need to plan how you want the service pack handled from the two options below. You will also need to complete the following steps.

NOTE If the deployment process for the main product is canceled or fails, the service pack installation will automatically be canceled.

- **Append the Service Packs 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 Packs 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 administrative image. Multiple service packs may be included in a single administrative image.

To extract a Microsoft Installer Patch (MSP) file from a service pack

- 1 Download the service pack from the AutoCAD 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. The "e" command line switch extracts the MSP file from the executable.

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 Browse 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 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 the following:

- **Enable Live Updates.** 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.

- **Enable Information Channels.** When active, information channels notify users with various pieces of information such as product support information.
- **Enable CAD Manager Channel.** 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 Local Server.** You can maintain a patch list on a local server. A patch list is an XML file that specifies a list of patches available for installation on your computer. If you select this option, the Local Patch List Location box is available. Use the Browse button to locate the path to a server location where you want a patch list. More information about how to use a local patch list is available by installing Autodesk CAD Manager Tools, running the CAD Manager Control utility, and then clicking Help in the CAD Manager Control utility window.

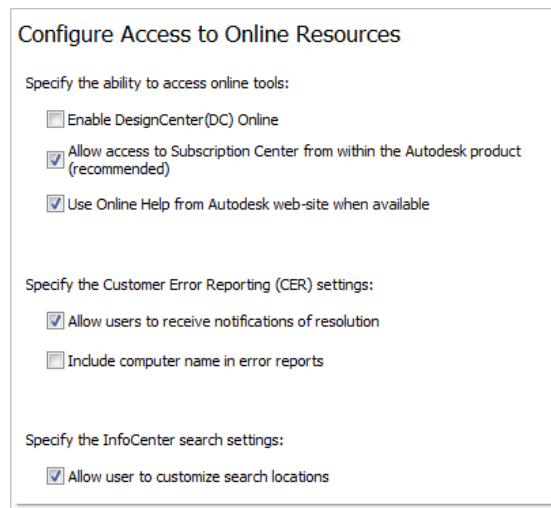
NOTE You can name a file to use for patch information. By naming a file and using an *.npl* extension now, you are creating a placeholder file, not creating the file itself. In the location that you specify in the Local Patch List Location box, you must create a text file with the same name you specify 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.

Allow Users to Access Online Resources (Optional)

On the Configure Access to Online Resources pages, you can specify whether users can access online resources such as receiving live updates from Autodesk, enabling information or CAD Manager channels, or subscribing to RSS feeds. You can also allow access to the DesignCenter as well as specifying Customer Error Reporting and InfoCenter settings.



Configure Access to Online Resources

Specify the ability to access online tools:

- ☐ Enable DesignCenter(DC) Online
- ☒ Allow access to Subscription Center from within the Autodesk product (recommended)
- ☒ Use Online Help from Autodesk web-site when available

Specify the Customer Error Reporting (CER) settings:

- ☒ Allow users to receive notifications of resolution
- ☐ Include computer name in error reports

Specify the InfoCenter search settings:

- ☒ Allow user to customize search locations

DesignCenter

The DC Online tab in DesignCenter provides access to pre-drawn 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.

NOTE DesignCenter Online is not selected by default. If you choose not to enable DC Online at the time of installation, you can enable it later from the CAD Manager Control utility.

Subscription Center

With Autodesk Subscription, users receive the following:

- Software upgrades and exclusive product downloads

- Access to training and learning materials
- One-on-one product support
- Exclusive license terms on any Autodesk products under contract
- Access to Autodesk Knowledge Base

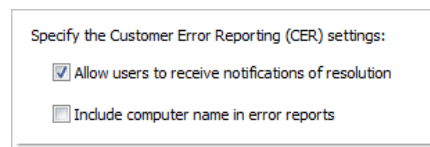
Online Help

Access to online Help documentation is available to your users from www.autodesk.com. The Help system can also be installed during the product installation process should you choose to restrict online access. Access to online or local Help can also be done through the CAD Manager Control utility.

The Help documentation includes User's and Customization Guides, a Command Reference, New Features Workshop, developer documentation, learning and training tutorials, and other learning resources. A product *Readme* is also available that contains late-breaking information on your product.

Customer Error Reporting (CER)

If your Autodesk product 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.



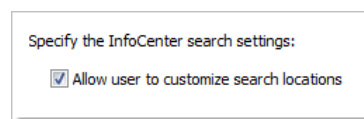
Specify the Customer Error Reporting (CER) settings:

- ☒ Allow users to receive notifications of resolution
- ☐ Include computer name in error reports

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

Specify InfoCenter Search Settings

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.



Specify the InfoCenter search settings:

- ☒ Allow user to customize search locations

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

To configure access to online resources

- 1 While creating a deployment, on the Configure Access to Online Resources page, do the following to configure DesignCenter Online:
 - To enable DesignCenter Online, select the check box next to Enable DC Online.
- 2 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.
- 3 Specify whether users have the option to customize their InfoCenter search locations. This option is enabled by default.
- 4 Click Configuration Complete.

Create a Default Deployment

If you do not plan to customize your deployment, you can create a default deployment.

The following procedure illustrates how quickly you can set up a default deployment using the deployment wizard. This procedure illustrates a *single-server* network deployment using a *Typical* installation with *no customizations*. For information about customizing product configurations in a deployment, see [Create a Custom Deployment](#) on page 67.

To create a deployment using default settings

- 1 Start the AutoCAD Installation wizard.
- 2 On the initial page, select a language for the deployment instructions. Click Create Deployments.
- 3 On the Begin Deployment page, specify the following:
 - *Administrative Image Field.* Enter or locate the path to the shared network location where you want to create and store your administrative image. Users install the program from this location.

NOTE For information on how to create a network share, see [Create a Network Share](#) on page 41.

- *Deployment Name Field.* Enter the new deployment's name. This name is used for the shortcut from which users will install the product.
- **This is to be a:** Select either 32-bit or 64-bit for your target operating system.

Click Next.

- 4 On the Select the Products to Include in the Deployment page, select the products, and language to include in your deployment. Click Next.
- 5 Review the Autodesk software license agreement. Click I Accept, and then click Next.
- 6 On the User and Product Information page, enter your user information, serial number, and product key. Click Next.

WARNING After you click Next, you cannot change the information entered on the this page unless you uninstall the product.

- 7 On the General Deployment Settings page specify whether to
 - Create a network log file. Specify the log file's location by entering either a valid UNC (universal naming convention) path or a hard-coded path on your network.

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

- Create a client log file.
- Run the installation in silent mode to prevent users from changing installation settings.

For more information on log files, see [Creating Log Files](#) on page 47. For more information on silent mode, see [What Is Silent Mode?](#) on page 47. Click Next.

- 8 On the Create Deployment page, click Create Deployment. Click Yes to continue creating the deployment using the default configuration.
An administrative image is created in your shared folder using the deployment options listed in Current Settings. To retain a copy of your deployment settings, click Copy to Clipboard.
- 9 On the Deployment Complete page, click Finish.

Create a Custom Deployment

To alter your deployment by removing features or restricting access to online resources, customize the configuration of each product included in the deployment.

To create a custom deployment

- 1 Start the AutoCAD Installation wizard.
- 2 On the initial page, select a language for the deployment instructions. Click Create Deployments.
- 3 On the Begin Deployment page, specify the following:
 - *Administrative Image Field.* Enter or locate the path to the shared network location where you want to create and store your administrative image. Users install the program from this location.

NOTE For information on how to create a network share, see [Create a Network Share](#) on page 41.

- *Deployment Name Field.* Enter the new deployment's name. This name is used for the shortcut from which users will install the product.
- **This is to be a:** Select either 32-bit or 64-bit for your target operating system.

Click Next.

- 4 On the Select the Products to Include in the Deployment page, select the products, and language to include in your deployment. Click Next.
- 5 Review the Autodesk software license agreement. Click I Accept, and then click Next.
- 6 On the User and Product Information page, enter your user information, serial number, and product key. Click Next.

WARNING After you click Next, you cannot change the information entered on the this page unless you uninstall the product.

- 7 On the General Deployment Settings page specify whether to
 - Create a network log file. Specify the log file's location by entering either a valid UNC (universal naming convention) path or a hard-coded path on your network.

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

- Create a client log file.
- Run the installation in silent mode to prevent users from changing installation settings.

For more information on log files, see [Creating Log Files](#) on page 47. For more information on silent mode, see [What Is Silent Mode?](#) on page 47. Click Next.

- 8 On the Create Deployments page, click Configure to customize the product configuration.
- 9 On the Select the License Type page, select Stand-alone or Network license, and click Next.

10 On the Select the Installation Type page, specify the following:

- *Installation Type*. Select Typical to install the most common application features. Custom to install only the application features that you select from the Select Features To Install list.
- The following table lists features that are available for selection with a custom installation.

CAD Standards	Contains tools for reviewing design files for compliance with your standards.
Database	Contains database access tools.
Dictionaries	Contains multi-language 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 (not supported by Autodesk).
Fonts	Contains AutoCAD fonts and TrueType fonts.
Autodesk Seek	Autodesk Seek. NOTE Seek will only be installed in the English version of AutoCAD.
Welcome Screen	Contains learning resources to help discover the product.
License Transfer Utility	Allows users to transfer an Autodesk product license between computers. NOTE The utility will not be installed on unlocked versions of AutoCAD.
Migrate Custom Settings	Migrates custom settings and files from previous version of your product to this version.
Initial Setup	Allows users to perform some basic customization of AutoCAD (online content, workspaces) based on their units system, industry, and commonly used task-based tools.

Reference Manager	Allows users to view and edit the paths of externally referenced files associated with a drawing.
Samples	Contains various feature sample files.
Tutorials	Contains tutorials.

- *Install Optional Tools.* Specify whether to install AutoCAD Express Tools Volumes 1-9 which contains a library of productivity tools designed to help you extend the power of AutoCAD.
- *Product Install Path.* Specify the drive and location where you want to install the product.

Click Next.

- 11 On the Select Installation Folders for Support Content page, choose the location for your support content. For more information about support file locations and options, see [Select Installation Folders for Support Content](#) on page 53. Click Next.
- 12 On the Define Search Paths and File Locations page, specify the necessary search paths, file names, and file locations. Click Next.

WARNING Do not remove the DRV path. Always add paths as secondary paths.

- 13 On the Install Additional Files page, specify the installation location and the filenames of any additional files you want to include in the deployment. Click Next.
- 14 On the Specify User Preferences page, specify whether to display the Welcome Screen, whether to require Internet Explorer, the default publish format, the default profile name, and whether to create a desktop shortcut. Click Next.
- 15 On the Include Service Packs page specify whether to include any available service packs. The installer automatically checks *autodesk.com* for available updates.
- 16 On the Configure InfoCenter Communications Center page, specify whether to allow users access to the latest information and product discussions through live updates from Autodesk, Information and CAD Manager channels, and RSS feeds. Click Next.

- 17 On the Configure Access to Online Resources page, you can set up access to online tools such as DesignCenter, Subscription Center, and Online Help. You can also specify Customer Error Reporting settings, and allow users to customize InfoCenter searches. Click Next.
- 18 On the Configuration Complete page, select a product tab to configure another product, or click Configuration Complete to review your settings.
- 19 On the Create Deployment page, click Create Deployment. To retain a copy of your deployment settings, click Copy to Clipboard.
- 20 On the Deployment Complete page, click Finish.

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 include 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 In the Tools folder, double-click the Create & Modify a Deployment shortcut.
The deployment wizard is redisplayed.
- 3 Click through the deployment pages and make the necessary changes.
- 4 Click Create Deployment.

Point Users to the Administrative Image

When you are done creating the deployment, users can install the program using the shortcut located with the administrative image. The shortcut name matches the deployment name that you specified in the deployment wizard. Notify users of the location of the administrative image, instruct them to double-click the shortcut, and provide any other necessary instructions.

Distributing an Autodesk Program

4

You can choose from several methods of distributing an Autodesk program. Network sharing is the default method.

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.

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 disc. For example:

Autodesk product CDROM1\setup.exe

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

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: My First Name

Last name: My Last Name

Organization: Organization

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

Scripted installation for the AutoCAD

```
' Scripted installation for AutoCAD 2011 - English
option explicit
'
```

```
' Create variables
dim shell
dim productType
dim strADSKFirstName
dim strADSKLastName
dim strADSKOrganization
dim strADSKSNPrefix
dim strADSKSNNumber
dim strADSKProdKey
dim strLocale
dim strACADStandaloneNetworkType
dim strADSKLicenseServerType
dim strADSKLicenseType
dim strADSKServerName
dim strADSKServerPath
dim strADSKServerHostID
dim strADSKPath
dim strSourcePath
'
```

```

' Script initialization
Set shell = CreateObject("WScript.Shell")

productType = "ACAD"
'

' Name and Organization information
strADSKFirstName = "My First Name"
strADSKLastName = "My Last Name"
strADSKOrganization = "Organization"
'

' Serial Number information
strADSKSNPrefix = "123"
strADSKSNNumber = "12345678"
strADSKProdKey="ABCDE"
'Locale information, for example en-US = US English, de-DE =
Deutschland German, ja-JP = Japan Japanese
strLocale="" ' en-US, de-DE, ja-JP
'

' Source to install from (e.g. D: is assumed to be Install Media)

strSourcePath = "D:\"
'

' Destination to install to
strADSKPath = Shell.ExpandEnvironmentStrings("%ProgramFiles%") +
"\Autodesk\" + "AutoCAD 2011"
If strLocale <> "" Then strADSKPath = strADSKPath + " " + strLocale
strADSKPath = strADSKPath + "\"

'''''' Uncomment the relevant version of your installation - De
fault is Standalone
' For Standalone
RunStandaloneInstall()
'

' For Single Network License Server
'RunSingleLicenseServerInstall()
'

' End of Script
Wscript.quit()
'

```

```

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

Function RunSingleLicenseServerInstall
' Update with the correct information for the license server
strACADStandaloneNetworkType = "3"
strADSKLicenseServerType = "Single Server License"
strADSKLicenseType = "Network License"
strADSKServerPath = "myFlexNetServer"
' HOSTID or MAC address
strADSKServerHOSTID = "000000000000"
'
' Consolidate the two values
strADSKServerPath = strADSKServerPath & " " & strADSKServerHOSTID
shell.run MakeCommand(),2,1
end function
'

```

```

Function DefaultCommand
    dim retString
    ' /qb for silent install ' /c [key] override parameters for the
    key
    ' /w wait until installation completes before returning to script
    ' /o reboot after install completes

    retString = "" & strSourcePath & "\setup.exe" & "" & " /t /qb
    "
    If strLocale <> "" then
        retString = retString & "/Language " & strLocale
    End if
    retString = retString & " /c " & productType & ": "
    retString = retString & "INSTALLDIR=" & "" & strADSKPath & ""
    & " "
    retString = retString & "ACADSERIALPREFIX=" & strADSKSNPrefix & "
    "
    retString = retString & "ACADSERIALNUMBER=" & strADSKSNNumber & "
    "
    retString = retString & "ADLM_PRODKEY=" & strADSKProdKey & " "
    retString = retString & "ACADFIRSTNAME=" & "" & strADSKFirstName
    & "" & " "
    retString = retString & "ACADLASTNAME=" & "" & strADSKLastName
    & "" & " "
    retString = retString & "ACADORGANIZATION=" & "" & strADSKOrgan
    ization & "" & " "
    retString = retString & "InstallLevel=5 "
    DefaultCommand = retString & " "
end function

```

```

Function MakeCommand
dim retString
retString = DefaultCommand() & " "
retString = retString & "ACADSTANDALONENETWORKTYPE=" & "" & 
strACADStandaloneNetworkType & "" & " "
retString = retString & "ACADLICENSESERVERTYPE=" & "" & strADSK
LicenseServerType & "" & " "
retString = retString & "ACADLICENSETYPE=" & "" & strADSKLicense
Type & "" & " "
retString = retString & "ACADSERVERPATH=" & "" & strADSKServer
Path & "" & " "
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 License Transfer utility) are not installed.

Switches in Installation Scripts

Switch	Description
INSTALLDIR=	Specifies the location to install the product.
ACADSERIALPREFIX=	Specifies the numbers that precede the hyphen in the serial number.
ACADSERIALNUMBER=	Specifies the serial number.
INSTALLLEVEL=	Specifies the type of installation: 3=Typical
ACADFIRSTNAME=	Specifies the first name personalization.
ACADLASTNAME=	Specifies the last name personalization.
ACADORGANIZATION=	Specifies the company name.

Switches in Installation Scripts	
Switch	Description
ADLM_PRODKEY=	Specifies the product key (found on the same label as the serial number).
User Interface Flags	
Flag	Description
q	Designates that the installation is performed in silent mode.

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 disc(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 Run a Deployment

With group policies, you can advertise and install a program by assigning a deployment to computers. A deployment that is assigned to a computer can

be used by any user of that computer. Generally, you would assign the deployment to a computer that 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 assign a deployment to 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.

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

Advantages

- Works well with deployment functionality.
- Allows you to add custom files through the deployment wizard.
- Allows deployment to workstations.

Disadvantages

- Prohibits the passing of command-line parameters to an MSI executable. You must use scripts instead.
- Prohibits customization of application settings, other than what is set while creating a deployment.

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

Available on the product disc

Microsoft .NET 3.5 SP1

DirectX 9.0C

VC++ 2008 SP1 and VC++2005 SP1 runtimes for x86 operating systems; VC++2008 SP1 and VC++2005 SP1 runtimes for x64 for 64-bit operating systems

Microsoft National Language Support Downlevel APIs

FARO LS

Autodesk Design Review 2011 (*Not installed by default*)

Macromedia Flash Player 9.0 or later (*Not installed by default*)

Autodesk Material Library 2011(CM)
Autodesk Material Library 2011 Base Image Library (ILL)

Other

Microsoft Internet Explorer version 7.0 Service Pack 1 or later. You can download Microsoft Internet Explorer from the Microsoft website by visiting www.microsoft.com.

Microsoft Installer Package (MSI) 4.5

Microsoft Windows Media Format 9.5 (prerequisite for 64-bit)

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

- **Create an application distribution share point.** The application distribution share point is created using the deployment wizard. See [Create a Default Deployment](#) on page 65 or [Create a Custom Deployment](#) on page 67 to create a deployment.
- **Assign the deployment to a computer.** See [Use Group Policies to Assign a Deployment to Computers](#) on page 82.
- **Verify the installation.** Confirm that the program has been correctly installed. See [Verify a Group Policy Deployment](#) on page 88.

Use Group Policies to Assign a Deployment to Computers

Perform the following procedures from a Windows XP workstation or a Windows 2000 or 2003 server that has Group Policy Management Console installed, and has access to the Active Directory server.

NOTE For more information about Group Policy Management, see <http://technet.microsoft.com/en-us/windowsserver/grouppolicy>.

To assign a deployment to a computer

- 1 Start the Group Policy Management Console (*gpmc.msc*).

- 2 Right-click the organizational unit where you want to create the group policy object. Then select Create and Link a GPO Here and name the Group Policy.
- 3 Edit the policy.
- 4 In the Group Policy Object Editor dialog box, under Software Settings, right-click Software Installation, and click New ➤ Package.
- 5 In the Open dialog box, navigate to the administrative image's location that you specified in the deployment wizard. Navigate to *AdminImage\<processor type>\<product name folder>*. The processor type is either x86 or x64, depending on the processor type for which you created your deployment.

Examples

For x86 deployments:

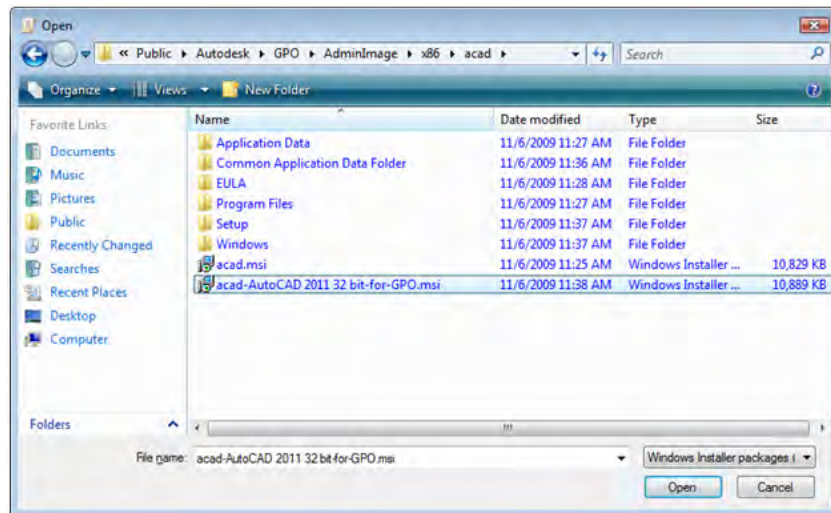
\\server123\Deployment\AdminImage\x86\acad

For x64 deployments:

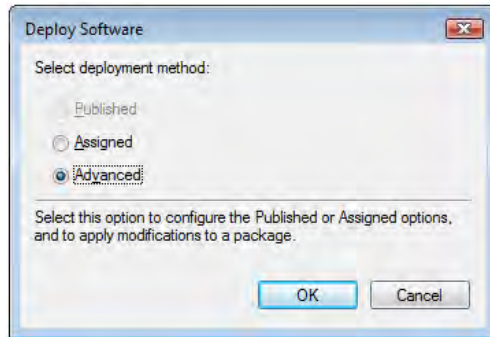
\\server123\Deployment\AdminImage\x64\acad

- 6 Select the Windows Installer Packages file called *acad-<deployment name>-for-GPO.msi*. Click Open.

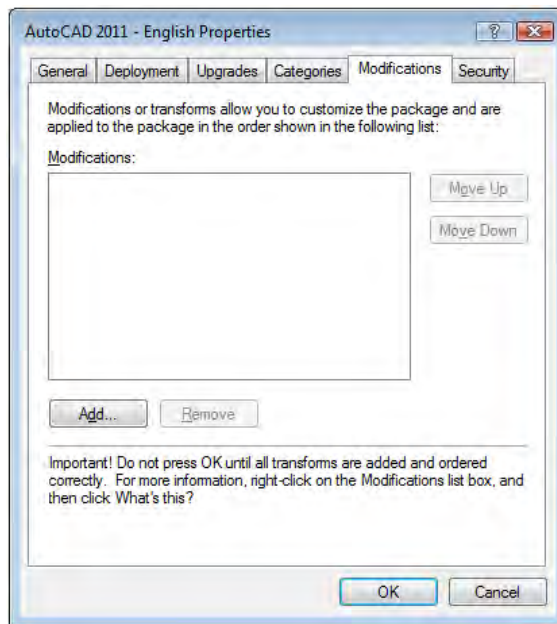
If the deployment was called “AutoCAD 2011 32 bit,” then the deployment’s the MSI file would be *acad-AutoCAD 2011 32 bit-for-GPO.msi*.



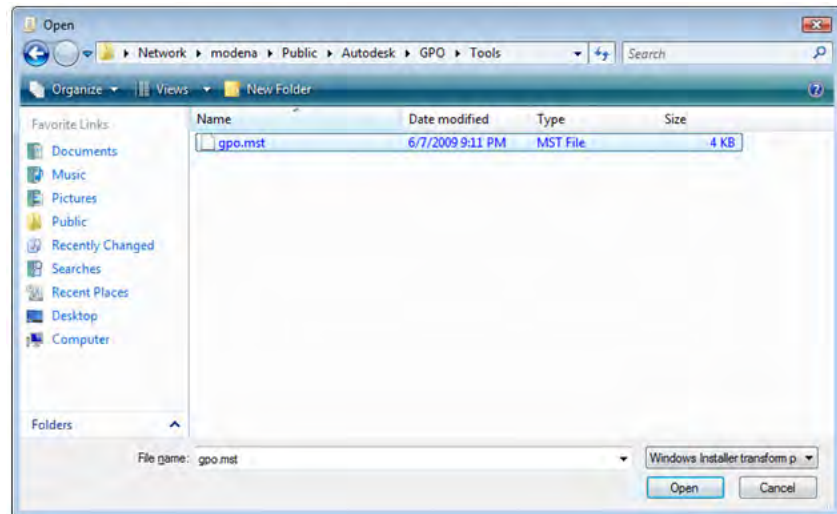
- 7 In the Deploy Software dialog box, select Advanced and click OK.



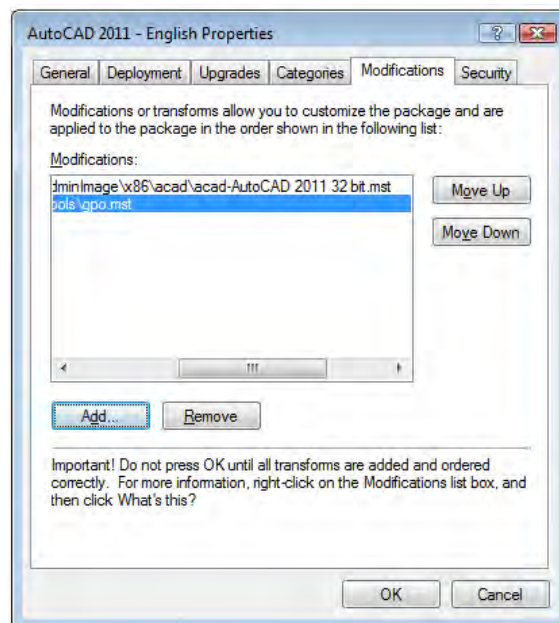
- 8 In the Properties dialog box, Modifications tab, click Add.



- 9 In the Open dialog box, select the Transform Package file called *acad-
<deployment name>.mst*). Click Open.
- 10 In the Properties dialog box, Modifications tab, click Add.
- 11 In the Open dialog box, navigate to *<deployment location>\Tools* and select the Transform Package file called *gpo.mst*.



After clicking Open, the Properties dialog should look like the following:



12 Click OK to complete the package.

Adding a Language Pack

Next, you will need add a language pack to your package.

To add a language pack

- 1 In the Group Policy Object Editor dialog box, under Software Settings, right-click Software Installation for the same object, and then click New ► Package.
- 2 In the Open dialog box, navigate to the administrative image's location you specified in the deployment wizard. Navigate to *AdminImage\<processor type>\<locale>\acad*. Click Open.

The *<locale>* used in the examples is *en-us* for US English.

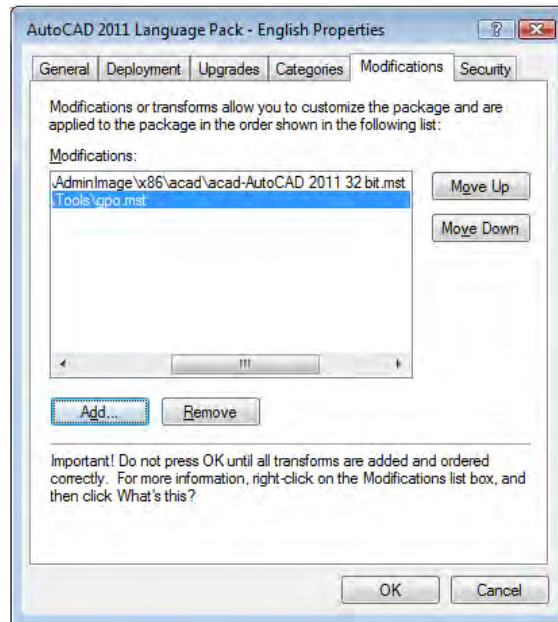
Examples

For x86 deployments: `\\server123\Deployment\AdminImage\x86\en-us\acad`

For x64 deployments: `\\server123\Deployment\AdminImage\x64\en-us\acad`

- 3 In the Deploy Software dialog box select Advanced and click OK.
- 4 In the *<product name>* Properties dialog box, Modifications tab, click Add.
- 5 In the Open dialog box, select the Transform Package file called *acad-<deployment name>.mst* located at *AdminImage\<processor type>\acad*. Click Open.
- 6 In the *<product name>* Properties dialog box, Modifications tab, click Add.
- 7 In the Open dialog box, navigate to *<deployment location>\Tools* and select the Transform Package file called *gpo.mst*.

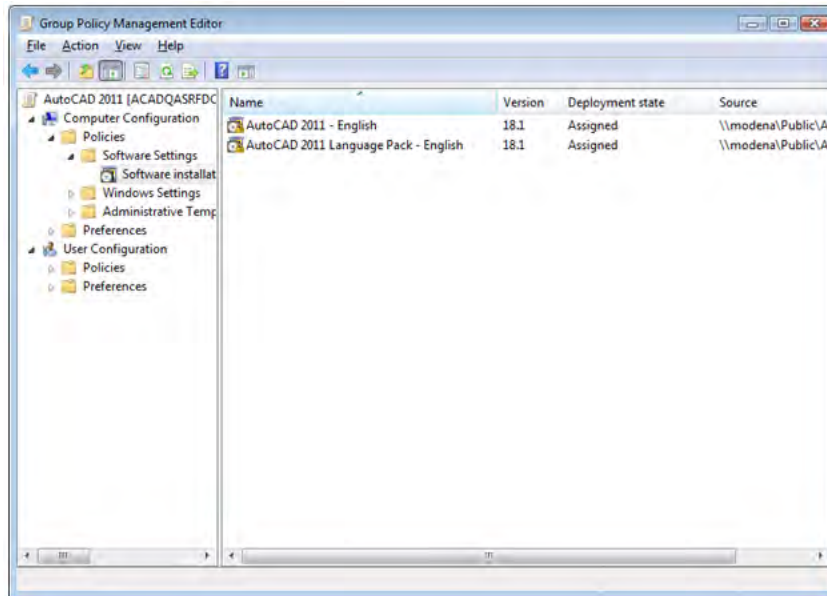
After clicking Open, the Properties dialog box should resemble to the following:



8

9 Click OK to complete the package.

Your final group policy object should resemble the following:



The group policy object is now 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 a Group Policy Deployment](#) on page 88 to confirm that the group policy has been created correctly.

Verify a Group Policy Deployment

To verify that this deployment 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 installation begins before the login prompt is displayed. The operating system displays group policy messages, including a message indicating the installation of any managed software.

After logging in, double-click the program icon on the desktop to complete the installation and start the program.

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

Use Microsoft System Center Configuration Manager to Install a Deployment

The following information provides details for deploying Autodesk software using Microsoft® System Center Configuration Manager (SCCM). SCCM allows you to manage software distribution to selected target systems through a remote process.

Introduction

To deploy Autodesk software, you should be familiar with the SCCM/SMS software distribution process. For more information about this topic, consult your Microsoft SCCM documentation and support resources.

Tasks for Deploying Autodesk Software with SCCM

To deploy Autodesk software with SCCM, it is recommended that you complete the following:

- Identify or create a collection of target systems to receive the software package
- Create a source directory using the deployment wizard
- Create a SCCM package to deploy to your target systems
- Provide the path for the source files
- Distribute the SCCM package to the distribution points
- Create an advertisement to notify users of the availability of the software package

NOTE DirectX 9.0C is not supported with the distribution to Windows XP by SCCM. In order for AutoCAD to run properly, manually install DirectX 9.0C from the product disc. When creating a software installation package of DirectX 9.0C, use /q/t:%tmp% as a parameter in the command field of the program. /q is the silent install. /t:%tmp% specifies the temporary folder for installation.

Set Up a Source Directory Using the Deployment Wizard

When you use SCCM to deploy Autodesk software, you set up the source directory using the deployment wizard.

The deployment wizard creates an administrative image that is used by SCCM to distribute the Autodesk software to the target systems. The location where you perform the administrative installation becomes the location of the package source directory.

To learn more about deployments and setting up the source directory for Autodesk software, see the following topics:

- [Setting Up and Creating a Deployment](#) on page 42
- [Prepare for a Network Deployment](#) on page 43
- [Create a Default Deployment](#) on page 65
- [Create a Custom Deployment](#) on page 67
- [Modify a Deployment \(Optional\)](#) on page 71

NOTE It is recommended that you test the deployment created by the deployment wizard before trying to configure SCCM to deploy the program to ensure that there are no problems with the administrative image and deployment.

To test your deployment

- 1 Log on to a Windows workstation as a user who has administrative privileges.
- 2 Navigate to the source directory where your deployment was created.
- 3 Double-click the deployment shortcut created by the deployment wizard.
The program will either be installed or error information will be written to the log file at %temp%.

Create the SCCM Software Installation Package

After creating the source directory using the deployment wizard, you create the SCCM software installation package. An SCCM package contains the files and instructions that SCCM uses to distribute the software and advertise the package. The deployment wizard creates the files and instructions, but SCCM must be configured to use these files.

To create a software installation package using SCCM

- 1 Click Start menu ► Programs or All Programs ► Microsoft System Center ► Configuration Manager 2007 ► ConfigMgr Console.
- 2 In the Configuration Manager Console window, expand Software Distribution.
- 3 Right-click Packages ► Distribute ► Software.
- 4 In the Distribute Software wizard, click Next.
- 5 In the Package dialog box, select Create a New Package and Program without a Definition File. Click Next.
- 6 In the Package Identification dialog box, enter the information for Name, Version, Publisher, Language and any comments. Click Next.
- 7 In the Source Files dialog box, make selections to where SCCM retrieves the files and how it manages them. Click Next.

NOTE In this procedure, “Always Obtain Files from a Source Directory” was selected.

- 8 In the Source Directory dialog box, specify the directory where the source files are stored. Click Next.
- 9 In the Distribution Points dialog box, select the distribution point(s). This is the location from which the software package will be deployed to the target systems. Click Next.
- 10 In the Program Identification dialog box, enter the name of your program. This is the name that displays in Add or Remove Programs in the Control Panel. In the Command Line field, enter **AdminImage\setup.exe /W /Q /I AdminImage\<deployment name>.ini /Lang en-US**. In this case, our deployment is named AutoCAD 2011, so you would enter **AdminImage\setup.exe /W /Q /I AdminImage\AutoCAD 2011.ini /Lang en-US**. Click Next.

NOTE The example above assumes the language pack you wish to install is US English. /W is the flag for SMS and SCCM, /Q is the silent install, /I indicates this is a deployment installation.

- 11 In the Program Properties dialog box, Program Can Run drop-down list, select how you want your program to install. Your choices are:
 - Only When a User is Logged On

- Whether or Not a User is Logged On
 - Only When No User is Logged On
- 12** In the After Running drop-down list, select an action to take after the program has deployed. Your choices are
- No Action Required
 - Program Restarts Computer
 - ConfigMgr Restarts Computer
 - ConfigMgr Logs User Off

NOTE AutoCAD requires you to restart your system after installation.

Click Next.

- 13** In the Advertise Program dialog box, select Yes to advertise the program. Click Next.
- 14** In the Select a Program to Advertise dialog box, select the package you want to advertise. Click Next.
- 15** In the Select Program ► Advertisement Target dialog box, select the collection to which you want to advertise, or create a new collection.
- 16** In the Select Program ► Advertisement Name dialog box, enter or change the name of your advertisement. Add any comments to further describe the advertisement. Click Next.
- 17** In the Select Program ► Advertisement Subcollection dialog box, select one of the following options:
- Advertise this Program to an Existing Collection
 - Create a New Collection and Advertise this Program to It
- 18** Click Next.
- 19** In the Select Program ► Advertisement Schedule dialog box, if desired, set options to advertise your program at a specific date and time, or set an expiration date. Click Next.
- 20** In the Select Program ► Assign Program dialog box, select one of the following options:
- If the installation process is mandatory, select Yes, Assign the Program.

- If the installation process is optional, select No, Do Not Assign the Program.

Click Next.

- 21 In the Summary dialog box, verify your advertisement information. Use the back buttons to make any changes. To finish, click Next.

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.

NOTE Autodesk does not recommend or support the distribution of AutoCAD using imaging software. However, if you plan to use this method of distribution, please review the following instructions carefully.

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.

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.

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 [Create a Custom Deployment](#) on page 67.
- 2 Install AutoCAD 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 [Create a Custom Deployment](#) on page 67.
- 2 Install AutoCAD 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 AutoCAD 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 *AdLM* folder (and *Product Licenses* folder, if present) to either another workstation or a disc 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 *AdLM* folder from the appropriate path shown below to a location other than the disc that will be restored.
C:\Documents and Settings\All Users\Application Data\FLEXnet
- 3 Reformat the workstation and restore the master image.

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

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

NOTE When you restore the disc 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 AutoCAD 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 disc or product disc to install the operating system.

Troubleshooting

5

This section provides solutions to installation issues and answers to commonly asked questions that may arise while installing your product(s). Additional troubleshooting information and support is also available at <http://autodesk.com/servicesandsupport>

General Installation Issues

This section outlines common issues and their solutions that may arise while performing a general install of your product(s).

How can I check my graphics card driver to see if it needs to be updated?

It is recommended that you verify and update your graphics card driver to optimize your program. Use the following procedure to identify your current graphics card driver.

To identify your graphics card driver

- 1 Start AutoCAD.
- 2 At the command line, enter **3dconfig**.
- 3 In the Adaptive Degradation and Performance Tuning dialog box, click View Tune Log.
- 4 Review the 3D Device section for information about your system's graphics card driver and driver version.

TIP Many newer graphic cards offer tabbed pages where you can learn more precise information about your specific graphic card. If specific tab pages are present, refer to them instead of the Adapter tab.

What is the text editor used for?

The text editor you designate during installation is used for editing text files such as PGP and CUS dictionary files while you are running your product.

What is the difference between a stand-alone license and a network license?

Stand-alone licensed products are registered and activated to an individual workstation. While the software can be installed on multiple systems in your facility, the license only allows one system to be operational. If you need to run more systems, you need to purchase more stand-alone licensed products, or consider converting to network licenses.

Network licensed products rely on the Network License Manager to keep track of software licenses. The software can be installed and run on multiple systems, up to the maximum number of licenses you've purchased. The Network License Manager "checks out" licenses until they are all in use. No further systems can run the program until a license is "checked in." If you need to run more systems, you can purchase additional licenses for the Network License Manager to maintain.

What is the benefit of using a network licensed version of the software?

Network licensed products are recommended for large drafting/design facilities, classrooms, and lab environments. The main advantage is that you can install products 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, products will run on the maximum number of systems for which you have licenses. This means you get a true floating license. If software needs to be run on more systems, additional licenses can be purchased.

What features get installed during a Typical or Custom installation?

A Typical installation includes all of the following features. If you choose to do a Custom installation, you can pick and choose from the feature list below.

A Typical installation also includes the Express Tools library. The library provides additional productivity tools.

CAD Standards	Contains tools for reviewing design files for compliance with your standards.
Database	Contains database access tools.
Dictionaries	Contains multi-language 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 (not supported by Autodesk).
Fonts	Contains AutoCAD fonts and TrueType fonts.
Autodesk Seek	Autodesk Seek. NOTE Seek will only be installed in the English version of AutoCAD.
Welcome Screen	Contains learning resources to help discover the product.
License Transfer Utility	Allows users to transfer an Autodesk product license between computers. NOTE The utility will not be installed on unlocked versions of AutoCAD.
Migrate Custom Settings	Migrates custom settings and files from previous version of your product to this version.
Initial Setup	Allows users to perform some basic customization of AutoCAD (online content, workspaces) based on their units system, industry, and commonly used task-based tools.

Reference Manager	Allows users to view and edit the paths of externally referenced files associated with a drawing.
Samples	Contains various feature sample files.
Tutorials	Contains tutorials.

How do I access my product documentation?

Documentation in the form of a Help file is available on the product media or as a web-based (online) Help file. The complete Help system is installed during the product installation process. During the installation process, you can access specific installation and licensing topics by clicking on the links in the left-panel of the installation wizards, or by selecting the Read the Documentation or Documentation links in the installation wizards.

Help files include User's and Customization Guides, a Command Reference, New Features Workshop, developer documentation, learning and training tutorials, and other learning resources. A product *Readme* is also available that contains late-breaking information on your product. The *Readme* is also available from the Installation Complete page.

What is SAMreport-Lite?

SAMreport-Lite is a report generator that helps you monitor the usage of applications that use FLEXnet™. SAMreport-Lite complements FLEXnet by providing a graphical user interface (GUI) from which to run usage reports. SAMreport-Lite can help you make better decisions about your software assets. For more information, see the *SAMreport-Lite User's Guide* in Help.

Deployment Issues

This section outlines common issues and their solutions with regards to software deployments.

Is there a checklist I can refer to when performing a deployment?

AutoCAD Installation contains a checklist that describes preliminary actions of the deployment process. See [Prepare for a Network Deployment](#) on page 43.

Where should deployments be located?

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.

Shared folders are required for 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 names of products you plan to deploy. For example, 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.

What are the default search paths and file location settings?

On the Select Installation Folders for Support Content page of the deployment wizard, you can choose where your support content gets installed by specifying a folder other than the user profile folder. Support files include drivers, menus, and optional, user-defined settings such as dictionary and customization files.

When an install path for support content is specified, it will be populated into the corresponding search paths on the Define Search Paths and File Locations page.

Support File Search Path	Specifies the folders in which the program should look for text fonts, customization files, plug-ins, drawings to insert, linetypes, and hatch patterns that are not in the current folder.
Customization Files	<p>Specifies the names and locations of various types of files.</p> <p>Main Customization File: Specifies the default location of the main customization file (<i>acad.cui</i>).</p> <p>Enterprise Customization File: Specifies the location of an enterprise customization file.</p> <p>Custom Icon Location: Specifies the location for custom icons used in customization files.</p>
Dictionary and Font Files	<p>Specifies a number of optional settings.</p> <p>Custom Dictionary File: Specifies a custom dictionary to use (if you have one).</p> <p>Alternate Font File: Specifies the location of the font file to use if the original font cannot be located and an alternate font is not specified in the font mapping file.</p> <p>Font Mapping File: Specifies the location of the file that defines how to convert fonts that cannot be found.</p>
Printer Support File Path	<p>Specifies search path settings for printer support files.</p> <p>Printer Configuration Search Path: Specifies the path for printer configuration files (PC3 files).</p> <p>Printer Description File Search Path: Specifies the path for files with a <i>.pmp</i> file extension, or printer description files.</p> <p>Plot Style Table Search Path: Specifies the path for files with an <i>.stb</i> or <i>.ctb</i> extension, or plot style table files (both named plot style tables and color-dependent plot style tables).</p>
Automatic Save File Location	Specifies the path for the file created when you select Automatic Save on the Open and Save tab.

Color Book Locations	Specifies the path for color book files that can be used when specifying colors in the Select Color dialog box. You can define multiple folders for each path specified. This option is saved with the user profile.
Data Sources Location	Specifies the path for database source files. Changes to this setting do not take effect until you close and restart the program.
Template Settings	<p>Specifies the drawing template settings.</p> <p>Drawing Template File Location: Specifies the path to locate drawing template files used by the Start Up wizard and New dialog box.</p> <p>Sheet Set Template File Location: Specifies the path to locate sheet set template files used by the Create Sheet Set wizard.</p> <p>Default Template File Name for QNEW: Specifies the drawing template file used by the QNEW command.</p> <p>Default Template for Sheet Creation and Page Setup Overrides: Specifies the default template file that is used for creating new sheets and for storing page setup overrides that can be applied to Publish operations from the Sheet Set Manager.</p>
Tool Palette File Locations	Specifies the path for tool palette support files.
Log File Locations	Specifies the path for the log file created when you select Maintain a Log File on the Open and Save tab.
Plot and Publish Log File Location	Specifies the path for the log file that is created if you select the Automatically Save Plot and Publish Log option on the Plot and Publish tab of the OPTION command.
Temporary Drawing File Location	Specifies the location to store temporary files. This program creates temporary files and then deletes them when you exit the program. If you plan to run the program from a write-protected folder (for example, if you are working on a network or opening files from a disc), specify an alternate location for your temporary files. The folder you specify must not be write-protected.

Temporary External Reference File Location	Specifies the location of external reference (xref) files. This location is used for the copy of the xref when you select Enabled with Copy in the Demand Load Xrefs list on the Open and Save tab.
Texture Maps Search Path	Specifies the folders to search for rendering texture maps.
i-drop Associated File Location	Specifies the location of data files associated with i-drop content. When the location is not specified, the location of the current drawing file is used.

How will changing the support file locations affect my search paths?

When a different install path for support content is specified, it will be populated into the correspondent search paths on the Define Search Paths and File Locations page. If one is not specified, the first search path will replace the install path. The table below outlines the specific search paths that can be affected by resetting your support file install paths.

Install path	Search paths and file locations
Support	<ul style="list-style-type: none"> ■ Support file search path ■ Customization files > Main customization files ■ Custom dictionary file ■ Font mapping file ■ Color Book locations ■ Tool palette file locations ■ Action Recorder settings. Action Recording file location ■ DGN mapping setup locations
Plotter	<ul style="list-style-type: none"> ■ Printer support file path <p>Printer configuration search path Printer description file search path Plot style table search path</p>

Install path	Search paths and file locations
Data links	<ul style="list-style-type: none"> ■ Data source location
Templates	<ul style="list-style-type: none"> ■ Template settings <ul style="list-style-type: none"> Drawing template file location Sheet Set template file location Default templates for sheet creation and page setup overrides
Rendering	<ul style="list-style-type: none"> ■ Texture maps search path (all three paths should be replaced by the install path values with proper sub folders)

Along with defining search paths and file location, can files be added?

Using the Add button, you can set paths to folders where files are stored. You cannot add specific files.

Where can I check if service packs are available for my software?

To find out if a patch or Service Pack is available for your product, visit AutoCAD Support page at <http://autodesk.com/servicesandsupport>.

How do I extract an MSP file?

A Microsoft Patch (MSP) file is usually contained in a Service Pack executable that you download from AutoCAD Support website. To extract the MSP file from the executable, run the patch program from the Windows command prompt using the /e switch.

Pay particular attention to the location where the files are extracted. For details about using the patch file, review the *Readme* file for that patch.

Can Online Resource settings be modified later?

Yes. If you want to change the state of online resources after a product is installed, you can do that from the CAD Manager Control utility. The CAD Manager Control utility is installed separately from AutoCAD.

From the installation wizard, select Install Tools and Utilities and then select the CAD Manager Control utility. After installation is complete, you can open the utility from the Start menu. Do one of the following:

- On the Start menu, click Programs or All Programs ➤ Autodesk ➤ CAD Manager Tools ➤ CAD Manager Control Utility.

Where can I learn about InfoCenter?

You can use InfoCenter to enter a question for help, display the Communication Center panel for product updates and announcements, or display the Favorites panel to access saved topics. For more information, refer to [Configure InfoCenter Communication Center \(Optional\)](#) on page 61.

What are information channels?

The Communication Center component of InfoCenter allows you to receive announcements from various information channels. Through information channels, you can receive the following:

- Product Support information, including maintenance patch notifications.
- Subscription Center announcements and subscription program news, as well as links to e-Learning Lessons, if you are an Autodesk subscription member.
- Notifications of new articles and tips posted on Autodesk websites.

What are the benefits to enabling CAD Manager Channels?

CAD Manager Channels allow access to Internet-based content and information feeds from a specified feed location.

What are RSS feeds and how do they benefit my installation?

An RSS feed is a live link you initiate by subscribing to someone's website. Once subscribed, the primary benefit is a constantly updating stream of content that is delivered to your system in the form of summarized articles, forum threads, blog posts, and so on. RSS stands for Rich Site Summary (or Really Simple Syndication).

Where can I learn about InfoCenter search locations?

You can use InfoCenter to search multiple sources (for example, Help and specified files) at one time, or choose to search a single file or location.

For more information, refer to [Configure InfoCenter Communication Center \(Optional\)](#) on page 61.

How do I set or customize search locations?

InfoCenter Search and Communication Center settings can be set in the InfoCenter Settings dialog box or in the CAD Manager Control utility. You must use the CAD Manager Control utility to specify CAD Manager Channel settings.

See [Configure InfoCenter Communication Center \(Optional\)](#) on page 61 for more information regarding the settings you can configure.

Networking Issues

This section outlines common issues and their solutions with regards to performing a network installation or configuring your network license server(s).

When installing tools and utilities, which selections are applicable for a multi-seat stand-alone installation?

Since a multi-seat stand-alone licensed product does not rely upon a license server to manage or activate the license, the only tool that is beneficial is the Autodesk CAD Manager tool.

You need the CAD Manager tool if you want to make changes to CAD Manager Channels.

When installing tools and utilities, which selections are applicable for a stand-alone installation?

The Autodesk CAD Manager tool is the only tool that is beneficial to a stand-alone licensed product. With the CAD Manager tool, you can modify CAD Manager Channels.

Where do I find my server name?

When installing a network licensed product, you must specify the name of the server that will run the Network License Manager. If you don't know the server name, you can quickly find it by opening a Windows command prompt on the system that will be the Network License Manager. At the prompt, enter `ipconfig /all` and note the Host Name entry.

When specifying user workstation settings, I am given the option to specify a profile. What are profiles?

Profiles are created on the Profiles tab of the Options dialog box. Profiles can contain configuration settings for just about anything that is not a drawing based system variable. For example, a profile can contain things like support paths, grip settings, and plot settings.

When you specify a profile on the Specify User Preferences page during the deployment process, it ensures that all workstations that use that deployment to install the product will be configured the same way.

Can I create custom desktop shortcuts?

You can choose to create custom desktop shortcuts that use command line switches to specify several options when you start the program. For example, command line switches can be set to run a script during program launch, create a drawing based on a template or prototype drawing, or designate a workspace that should be restored on startup.

For more information, see Customize Startup in the *AutoCAD User's Guide*.

What happens when you choose to append or merge service packs?

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.

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 administrative image. Multiple service packs may be included in a single administrative image.

You can choose to append or merge service packs from the Include Service Packs page when creating a deployment.

What is an administrative image (MSI) file?

An *administrative image* is a collection of shared file resources created during the deployment process and is used by deployments to install the program to networked workstations. Service packs (patches) can be applied to an administrative image when you create the deployment. A *.msi* file is a Microsoft Installer file.

What is the impact of selecting all products for the administrative image, and can I add products later?

If you elect to include all products in your deployment, the administrative image will be larger. You should select all products only when you create multiple deployments from this image and prefer not to use the installation disc. If there are products you rarely or never use, and you do not expect to create additional deployments, you should only select a subset of products.

You can still create a deployment at a later date, and include additional products, but you need to create a new administrative image. You need the installation disc to do so.

Uninstall and Maintenance Issues

This section outlines common issues and their solutions with regards to adding and removing features, reinstalling or repairing your installation, and uninstalling products.

When adding or removing features, how can I tell what features get installed by default?

To quickly see what gets installed during a Typical, default installation, click the Restore Defaults button on the Add/Remove Features page.

CAD Standards	Contains tools for reviewing design files for compliance with your standards.
Database	Contains database access tools.
Dictionaries	Contains multi-language 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 (not supported by Autodesk).
Fonts	Contains AutoCAD fonts and TrueType fonts.
Autodesk Seek	Autodesk Seek. NOTE Seek will only be installed in the English version of AutoCAD.
Welcome Screen	Contains learning resources to help discover the product.
License Transfer Utility	Allows users to transfer an Autodesk product license between computers. NOTE The utility will not be installed on unlocked versions of AutoCAD.
Migrate Custom Settings	Migrates custom settings and files from previous version of your product to this version.

Initial Setup	Allows users to perform some basic customization of AutoCAD (online content, workspaces) based on their units system, industry, and commonly used task-based tools.
Reference Manager	Allows users to view and edit the paths of externally referenced files associated with a drawing.
Samples	Contains various feature sample files.
Tutorials	Contains tutorials.

Is it possible to change the installation folder when adding or removing features?

Once your product is installed, you cannot change the installation path from the Add/Remove Features page. Changing the path while adding features results in program corruption, so it is not an option.

When should I reinstall the product instead of a repair?

You should reinstall your product if you accidentally delete or alter files that are required by the program. Missing or altered files adversely affect the performance of your product and cause error messages when you try to execute a command or find a file.

If an attempt to repair an installation fails, reinstalling is the next best option.

Do I need my original disc(s) to reinstall my product?

When performing a reinstall of the product, you are prompted to load your original disc(s). Installation data is cached locally on your drive and that data is reused when reinstalling.

After repairing my installation, is it possible to recover my settings?

Custom settings can be exported and later re-imported to the same system in case you have to repair the installation of your program.

For more detailed information regarding exporting and importing custom settings, see [Migrate Custom Settings and Files from Previous Releases](#) on page 19.

When I uninstall my software, what files are left on my system?

If you uninstall the product, some files remain on your system such as files you created or edited (drawings or custom menus).

Your license file also stays on your workstation when you uninstall your product. If you reinstall on the same workstation, the license information remains valid and you do not have to reactivate the product.

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 that manages the identities and relationships that make up network environments.

administrative image A collection of shared file resources created by the deployment wizard and used by deployments to install the program to network workstations.

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.

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.

FLEXnet License management technology from Acresto™ Software, Inc.. FLEXnet provides administrative tools that help to simplify management of network licenses. FLEXnet 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.

language family A set of languages (core product, plus language packs) that are distributed together, typically based on a geographic grouping.

language pack A set of installed files that enable the user to work in the application in the language specified by the Language Pack.

License Transfer utility Allows you to use an Autodesk product on more than one computer without purchasing a separate license for each computer.

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 MSIEEXEC 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.

network license installation A type of installation where you install the program to workstations with the files and registry entries that allow the program to communicate with the Network License Manager.

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.

SCCM Microsoft System Center Configuration Manager. A tool that helps administer networked machines by allowing remote configuration, push deployments, and user administration. SCCM is an expensive technology that must be purchased as an additional server.

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 mode An installation that proceeds without any explicit user input. No dialog boxes are presented that require interaction from the user.

transform See MST.

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