

AutoCAD 2013 and AutoCAD LT 2013 Service Pack 2 Readme

Thank you for downloading AutoCAD® 2013 and AutoCAD LT® 2013 Service Pack 2

This readme contains the latest information regarding the installation and use of the Service Pack. It is strongly recommended that you read the entire document before you apply the Service Pack to your product. For reference, you should save this document to your hard drive or print a copy.

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Who Should Install This Service Pack?

You can apply this Service Pack to the following Autodesk products running on all supported operating systems and languages. Be sure to install the correct Service Pack for your software.

32-bit Product	Service Pack
AutoCAD 2013	<i>AutoCAD_2013_SP2_32bit.exe</i>
AutoCAD LT 2013	<i>AutoCAD_LT_2013_SP2_32bit.exe</i>

64-bit Product	Service Pack
AutoCAD 2013	<i>AutoCAD_2013_SP2_64bit.exe</i>
AutoCAD LT 2013	<i>AutoCAD_LT_2013_SP2_64bit.exe</i>

This Service Pack can be applied to AutoCAD 2013 installed as a standalone application as well as AutoCAD 2013 installed from the following Autodesk Design Suites.

- AutoCAD Design Suite 2013
- Autodesk Building Design Suite 2013
- Autodesk Factory Design Suite 2013
- Autodesk Infrastructure Design Suite 2013
- Autodesk Plant Design Suite 2013
- Autodesk Product Design Suite 2013

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Information for Windows 7 Users

When you apply this Service Pack while running AutoCAD or AutoCAD LT, do not click the "Automatically close applications and attempt to restart them after setup is complete" option. Instead, close AutoCAD or AutoCAD LT manually, and click the "Do not close applications. (A Reboot may be required.)" option in the dialog box. It is recommended that you reboot your system after installing the Service Pack.

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Information for Windows 8 Users

The following operating systems are officially supported for 32-bit and 64-bit AutoCAD 2013 with Service Pack 2.

- Windows 8 Standard edition

- Windows 8 Enterprise edition
- Windows 8 Professional edition

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Primary Issues Resolved by This Service Pack

- [Problems Reported with the Customer Error Reporting Utility](#)
- [General Service Pack Updates](#)
- [New /nolisp Startup Switch and Related System Variables](#)

As a result of detailed information from customers who used the Customer Error Reporting Utility, a number of problems were identified and fixed. Updates have been made in the following commands and features:

3D Navigation Tools

Service Pack 1

- Unexpected exit while panning.
- Occasional crash related to navigating in 3D drawing.

Service Pack 2

- Occasional crash related to navigation tools.

3D Modeling

Service Pack 1

- Occasional crash while selecting a face during a Presspull operation.
- Crash when opening multiple 3D drawings containing a large number of 3D objects.

Autodesk 360

Service Pack 1

- Crash in Japanese AutoCAD when logging into Autodesk 360 from the Options dialog box.
- Occasional crash when opening a drawing that contains xrefs, when logged in to Autodesk 360.

Service Pack 2

- Crash with long file path in the Autodesk 360 folder.
- Occasional crash when opening AutoCAD with the InfoCenter off.

Block

Service Pack 2

- Occasional crash when clicking a block table grip with only one row of values available.

Command Line

Service Pack 2

- Crash when switching Input Method Editor (IME) after canceling a command when DYNMODE is set to 0 and the command window is docked.

CUI (Customize User Interface)

Service Pack 1

- Occasional crash while loading a custom CUI file.
- Unhandled exception occurs while clicking the Customize button from Quick Properties palette on a computer running .NET 4.5.

Design Center

Service Pack 1

- Occasional crash while working with DesignCenter.

DGN Support

Service Pack 1

- Fatal error when attaching or importing certain DGN files.

Service Pack 2

- Fatal error when scrolling the DGN linetype in the Properties Palette.

Dimensions

Service Pack 1

- Crash after undoing the creation of a non-associative continued or non-associative baseline dimension.

Service Pack 2

- Occasional crash when grip-editing annotative dimensions.

Express Tools**Service Pack 1**

- Occasional crash during a MOCORO (Move/Copy/Rotate) command.

External Reference (XREF)**Service Pack 2**

- An OLE Object in an xref was not correctly set before the xref was detached. This crash issue has been resolved by opening the xref before erasing it.

Hatch**Service Pack 1**

- Occasional crash while zooming when HATCHEDIT is active.

InfoCenter**Service Pack 1**

- Crash when clicking any option from the Stay Connected button in the title bar when no drawings are open.

Inquiry**Service Pack 1**

- Crash while calculating the area of a polyline that contains at least one segment that has been reduced to zero length.

MLEADER**Service Pack 2**

- Occasional crash when using MATCHPROP with multileaders.

OLE**Service Pack 2**

- Occasional crash when closing the application with a drawing that contains an OLE object.

OPTIONS**Service Pack 2**

- Occasional crash when changing or switching profiles in Options.

Plot**Service Pack 1**

- Occasional crash while plotting to PDF.
- Crash while plotting to a PDF file and the PDF driver is not present.

Service Pack 2

- Occasional crash when plotting with a wipeout in the drawing.

PDF Underlay**Service Pack 2**

- Crash when specifying other PDF file from Saved Path field in External Reference palette.

Point Cloud**Service Pack 1**

- Crash if the PCG file used to create a point cloud object does not exist.

Startup**Service Pack 1**

- Crash due to corrupt graphics cache files on startup.
- Crash occurs while canceling a LISP routine that runs at program startup.

General**Service Pack 1**

- Crash on undo/redo after adding 256 or more objects to a group.
- Crash on viewing thumbnail in AutoCAD 2012 when installed side-by-side with AutoCAD 2013.
- Occasional crash when exploding splines created by third-party applications.

- Crash when AutoCAD exits on computers running .NET 4.5.

Service Pack 2

- Occasional crash when opening AutoCAD drawings in Windows 8.
- Occasional crash due to using Intersection object snaps on lightweight polylines.
- Some corrupt drawings crash when opened or saved and are not fixed automatically.
- Exiting the Text Editor while previewing text style causes a crash.

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The following defects have been fixed:

3D Navigation Tools

Service Pack 1

- The Keep Scene Upright option in the 3Dconnexion Settings dialog box cannot be changed.

Service Pack 2

- Zoom speed varies with 3Dconnexion device in perspective view.

3D Modeling

Service Pack 1

- Issue with the centroid computation for 3D solids.

Service Pack 2

- Issue with the MASSPROP command with sliced 3D solids.

Action Recorder

Service Pack 1

- Action macros recorded in previous releases are not working correctly in AutoCAD 2013.

Autodesk 360

Service Pack 1

- Pressing F1 does not display Help for the ONLINESYNCSETTINGS dialog box.
- Drawing files with names containing language-specific characters do not get saved to Autodesk 360.
- User is not automatically logged in when launching Autodesk 360 from the AutoCAD ribbon.
- Sometimes the Share Drawing dialog box opens behind the main application window.

Block

Service Pack 2

- Issue with the display of the Block Property Table cascading menu.

CUI (Customize User Interface)

Service Pack 2

- Missing checkboxes in the Customize User Interface (CUI) dialog box when NET 4.5 is installed.

Customization Sync

Service Pack 1

- Customization Sync progress animation runs continuously.
- Customization Sync does not sync new custom commands in tool palettes.

DGN Support

Service Pack 1

- Export to DGN does not use the Global Origin specified in the seed file.
- The DGNIMPORTUNITCONVERSION system variable is missing in AutoCAD LT.

Service Pack 2

- Issues with exporting files to DGN, even after exploding contents of file.
- Import of a DGN arc as an Ellipse.

Display Drivers

Service Pack 1

- Integrated chipsets are unable to return available video memory correctly.

- When using COPYCLIP and PASTECLIP on a 64-bit operating system, you might see the object color change from the original color.

Dimensions

Service Pack 1

- Existing drawings lose Qleader settings when edited in AutoCAD 2013.
- Dimensions created using the Perpendicular object snap will shift when the drawing geometry is moved, copied, or otherwise modified.

Service Pack 2

- Radial dimensions for regions can become associated to wrong arc.
- Dimension text background fill cannot be reset in Properties.
- Jogged radial dimensions in paper space may reflect the wrong value of an extruded cylinder in model space.

External Reference (XREF)

Service Pack 1

- External reference drawings (XREFs) show as unresolved in AutoCAD 2013.

Hatch

Service Pack 1

- The Hatch Preview option is not available from the context menu when creating a hatch.

Image

Service Pack 2

- A MONOCHROME BITMAP attached in DWG file is not shown correctly.

INQUIRY

Service Pack 2

- MASSPROP reports an incorrect mass and centroid for a solid swept along a planar spline.

Field

Service Pack 1

- An object's angular property uses linear format instead of angular format in the Field dialog box.

MLeader

Service Pack 1

- Multileaders incorrectly display a dot at the content block's insertion point.
- If the Extend Leaders to Text option is turned on, the text in multileaders moves if the drawing is opened or edited in AutoCAD 2013.

Service Pack 2

- Multileader scale is not always updated when multileader style is changed.

Model Documentation - Detail View

Service Pack 2

- Changing the Hatch property of a Detail view derived from a Section view sometimes causes AutoCAD to hang.

Modify

Service Pack 1

- The SCALE command gets cancelled while dragging when small scale factor is acquired with object snap turned on.

Service Pack 2

- Ellipse is sometimes distorted during stretching.

MTEXT

Service Pack 2

- The font doesn't match the setting in -STYLE command in Windows 8.

PDF Export

Service Pack 1

- Plotting to a PDF file with a plot style causes wipeouts to appear black.

Performance

Service Pack 1

- Slow performance while running a large script.

- Slow performance while creating Layers quickly.

Plot

Service Pack 1

- Using Plot Preview turns the Command window back on.

Service Pack 2

- There is a black stripe when plotting some drawings with a clipped image.
- A printer cannot be added after adding multiple driver folders in the Options dialog box.
- Drawings cannot be plotted with the oversized paper size and transparency on.

Properties Palette

Service Pack 1

- When an object is selected, the tooltip is missing in the Properties Palette for the following languages: Traditional Chinese, Czech, Russian, and Hungarian.

Ribbon

Service Pack 1

- The Visibility drop-down control on the Block Editor Ribbon is not working properly when property preview is enabled.

Selection

Service Pack 1

- Pressing Shift with a window selection fails to remove multiple Drawing Views from the selection set on a layout.

Service Pack 2

- Grips for attributes of blocks are not automatically made hot upon sub-selection.
- Selection preview is reset to off when IntelliMouse® zooming is ended.

Sheet Set Manager

Service Pack 1

- A high network utilization will result with the SMB V2 (Server Message Block) protocol while working with the Sheet Set Manager.

Visual Lisp

Service Pack 1

- Menucmd does not display the drop-down menu when the Command window is docked.

Service Pack 2

- DCL files whose code page matches the system but not the product are not recognized and loaded properly.

General

Service Pack 1

- Error on launching AutoCAD after the QuickCalc palette is anchored.
- INSBASE value is incorrect for a drawing created using -WBLOCK.

Service Pack 2

- Saving some DWG files that contain 3D solids is slow.
- A UCS other than the World UCS results in an incorrect location for the wipeout frame.
- Prompts to save are not displayed when closing a hyperlink drawing that has been changed.
- Performance is slow when saving the drawing created with Release 2010 and earlier.

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This Service Pack introduces options to control the operation of AutoLISP and VBA applications in AutoCAD. The new controls provide the following security measures:

- Minimize the possibility of loading and running unauthorized or malicious AutoLISP and VBA applications by controlling the folder location from which AutoLISP and VBA applications are automatically loaded (AUTLOADPATH system variable).
- Limit the impact of malicious AutoLISP and VBA applications by disabling autoloading of default AutoLISP and VBA applications (AUTLOAD system variable).
- Facilitate the cleanup process by completely disabling AutoLISP at startup (/nolisp startup switch).

For more information see [AutoLISP and VBA Security Controls in AutoCAD 2013 SP1](#) document.

Note: To enable the autoloading changes to *acad.dvb*, uninstall the AutoCAD 2013 VBA Enabler, and download and install the latest [AutoCAD 2013 VBA module](#) that was updated for the changes made in Service Pack 1 for AutoCAD 2013.

New /nolisp Startup Switch

Start AutoCAD with this switch to disable AutoLISP execution in the current AutoCAD session, including all LSP, FAS, and VLX files. This switch is useful for preventing malicious AutoLISP code from automatically loading and executing.

Disabling AutoLISP has the following effects:

- Attempting to load any LISP file will fail.
- Attempting to copy and paste AutoLISP code into the Command window will fail silently.

Note: Disabling AutoLISP will prevent the Express Tools and some AutoCAD command tools from functioning and should only be used in emergency situations.

LISPENABLED (System Variable)

Indicates whether AutoLISP is enabled for the current AutoCAD session.

(Read-only)
Type: Integer
Saved in: Not saved
Initial value: 1

0 - AutoLISP is disabled
1 - AutoLISP is enabled

Disabling AutoLISP has the following effects:

- Attempting to load any LISP file will fail.
- Attempting to copy and paste AutoLISP code into the Command window will fail silently.

This system variable is controlled by the /nolisp startup switch.

AUTOLOAD (System Variable)

Controls whether AutoCAD autoloads *acad.lsp/fas/vlx*, *acaddoc.lsp/fas/vlx*, *acad.dvb* files.

Type: Integer
Saved in: Named Profile/Registry
Initial value: 1

Values:

0 - None of the following 7 AutoLISP/VBA files will be automatically loaded

- acad.lsp
- acad.fas
- acad.vlx
- acaddoc.lsp
- acaddoc.fas
- acaddoc.vlx
- acad.dvb

1 - autoloads the 7 files depending on the value of the AUTOLOADPATH system variable.

AUTOLOADPATH (System Variable)

Controls the folder from where AutoCAD loads *acad.lsp/fas/vlx*, *acaddoc.lsp/fas/vlx*, *acad.dvb* files.

Type: String
Saved in: Named Profile/Registry
Initial value: ""

Valid strings include the following:

"<folder path or paths separated by semicolons>" = Automatically loads the *acad.lsp/fas/vlx*, *acaddoc.lsp/fas/vlx*, *acad.dvb* files only in the specified folders and no other locations, including the current drawing folder. To minimize the possibility of loading a malicious application, always set the AUTOLOADPATH system variable to the unique folder where your authorized applications are located.

"" (empty string) or "." (period) - No path restriction. Automatically loads the *acad.lsp/fas/vlx*, *acaddoc.lsp/fas/vlx*, *acad.dvb* files found in the AutoCAD startup folder, the drawing folder, and the AutoCAD search path, in that order. This duplicates AutoCAD 2012 behavior and is not recommended.

Changes to acad2013.lsp and acad2013doc.lsp Autoloading Behavior

The *acad2013.lsp* and *acad2013doc.lsp* files will now be loaded only from their default installation folders:

```
<install folder>\Support  
<install folder>\Support\<language>
```

Changes to the Options Dialog Box

The "Load *acad.lsp* with every drawing" checkbox on the System tab of the Options dialog box (ACADLSPASDOC system variable) is disabled when AUTOLOAD or LISPENABLED has a value of 0.

Recommended Setup and Repair Workflow

For the best protection from malicious AutoLISP and VBA applications set AUTOLOADPATH to a unique folder location and set AUTOLOAD to 1.

If your installation has already been impacted by a malicious application that runs on startup, following these general steps:

1. Start your AutoCAD-based product with the /nolisp startup switch.
2. Find and remove all malicious code.
3. Repair any affected files.
4. Set AUTOLOADPATH to a unique folder location and set AUTOLOAD to 1.

After taking these steps, you can remove the /nolisp startup switch from the shortcut properties of the program's desktop icon, and resume the normal operation of your AutoCAD-based application.

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General Installation Information

- [Before You Begin](#)
- [About Windows Command Line Switches](#)

Note: You cannot install AutoCAD, AutoCAD Architecture, AutoCAD MEP, and AutoCAD Mechanical side-by-side when one of the listed products is installed and the Service Pack is already applied. You need to uninstall this Service Pack first, before the other listed products can be installed.

Note: Autodesk Sync (AdSync) patch will automatically get installed with the AutoCAD and AutoCAD LT patch.

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As you prepare to install this Service Pack, keep the following in mind:

Back Up Custom Files

It is recommended that you back up all custom CUIX, MNR, and MNL files before you apply this Service Pack.

Administrative Privileges

During installation, you will be prompted for the original installation media or a network image. In order to apply this Service Pack, you must have administrative privileges to install and uninstall products.

Network Deployment

Administrators can deploy this Service Pack over a network using the Deployment Wizard.

About Your Product

After you install the Service Pack, updated product information displays in the About dialog box.

Reboot

After you install, it is recommended to reboot your system even if not prompted.

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The following Microsoft Windows command line switches are built into this Service Pack:

- /e – Extracts the MSP file from the Service Pack executable.
- /q – Suppresses the completion message after the Service Pack is applied. This is useful if you use a script or batch file to apply this Service Pack to multiple computers.

Instructions about how to use the /e command line switch are included in the installation procedures that follow.

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Installation Instructions

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- [Apply This Service Pack Through a Local Network](#)
- [Apply This Service Pack to a New Network Administrative Image](#)
- [Uninstall This Service Pack](#)

Follow these instructions to install this Service Pack on a single computer.

1. Download this Service Pack and save it to any folder.
2. If required, insert the product media (for example, the AutoCAD installation disc).
3. Find the folder where you saved the Service Pack and double-click the executable (EXE) file.

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Follow these instructions to install this Service Pack on multiple computers using your local network.

1. Download this Service Pack and save it to any shared folder on your local network.
2. Find the shared folder where you saved the Service Pack, and double-click the executable (EXE) file.

Note: Installation through your local network using the CAD Manager Control Utility is not supported for this Service Pack.

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The following distribution method applies only to administrative images created with the Deployment wizard. After you complete these procedures, subsequent deployments of your product will include this Service Pack.

In all cases, append this Service Pack to the deployment. The only time it is appropriate to merge the Service Pack is if you intend to distribute the deployment through a group policy object.

The patch (Service Pack) file that you download contains an MSP (Microsoft Patch) file, which you extract from the executable file using the /e (extract) switch. For an example of the syntax, see step 2, below.

1. From the Autodesk Product Support website, download the Service Pack EXE file to your local computer.
2. On the Start menu (Windows), click Run. Enter the following information and click OK.
<local_drive:>\<patch_name> /e <local_drive:>\<patch_name>.msp
3. Insert the Autodesk media and launch *setup.exe*.
4. Select Create Deployments. Click Next.
5. On the Begin Deployment page, in the Specify the Deployment Location box, enter the shared network location where you would like to create an administrative image, or click Browse to find a location. Users install the product from this location.
6. In the Specify a Deployment Name box, enter the name for your deployment.
7. Continue through the Deployment wizard, open and configure the deployment in the product configuration page, click Add to find the Service Pack extracted in Step 2. Notice that the Service Pack has been added in the Include Service Pack(s) from local drive or local network box. Close and return to the product list.
8. Follow the instructions in the Deployment wizard to complete the Service Pack deployment.

Note: When the AutoCAD or LT Service Pack is included in a deployment, the deployment will install the Service Pack without update files for Autodesk Sync.

Note: The extraction of MSP from the service pack executable requires VC++ runtime redistributable 2010. Please make sure it is installed before extracting the MSP file.

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Windows XP

1. From the Start menu (Windows), click Settings > Control Panel.
2. In Control Panel, click Add or Remove Programs.
3. In the Add or Remove Programs window, select the Show Updates option.
4. Find the appropriate Service Pack in the list of programs. Click Remove.

Windows 7 / Windows 8

1. Start Control Panel.
2. Click Programs.
3. Click Programs and Features.
4. In the Programs and Features window, in the left pane, click View Installed Updates.
5. Find the appropriate Service Pack in the list of updates. Click Uninstall.

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We want to express our appreciation to all our customers who identified these issues and reported them to us. Their reports gave us the opportunity to improve the product and to provide you with the best solution in general design and drafting. We also thank you for your continued business, and for your feedback regarding this release.

Respectfully,

Autodesk AutoCAD and AutoCAD LT Product Team

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