

Release Notes: AutoVue Desktop Version 19.3

Packaging

- Renamed AutoVue Desktop Edition to AutoVue Desktop Version.
- Renamed AutoVue Web Edition to AutoVue Web Version.
- Added support for offline collaboration via the AutoVue Mobile product. Refer to “**AutoVue Mobile**” on **page 2** for more information.
- If you have a network installation of AutoVue Desktop Version (i.e., accessing AutoVue Desktop Version over the network), you must install the Microsoft Visual C++ 2005 SP1 Redistributable Package on each of the machines accessing AutoVue over the network.
<http://www.microsoft.com/downloads/details.aspx?familyid=200b2fd9-ae1a-4a14-984d-389c36f85647&displaylang=en>

System Requirements

- Microsoft Windows 2003 32-bit, Windows XP 32-bit, or Vista 32-bit.
- A hard disk with at least 400 MB of hard disk space.
Note: The memory requirement is dependent on the size and complexity of files you try to view with AutoVue.

Installation

If you have an older version of AutoVue installed on your computer, we recommend that you uninstall it before proceeding with the new installation.

Before uninstalling your previous version of AutoVue, make sure to save a backup copy of any specific settings and content that you would like to push forward into your new version. This can include the following:

- AutoVue settings from the "avwin.ini" file (located in the C:\windows directory by default)
- Custom translation .tra files (located in the \avwin directory of your AutoVue installation)
- Custom markup symbol libraries (located in the \avwin\Symbols directory of your AutoVue installation)
- Thumbnails Cache, if any (located in the \avwin\Folders directory of your AutoVue installation)

If you decide to move these settings/content forward to your new installation of AutoVue, they can for the most part be copied to the same relative locations in your new installation. However, for the AutoVue settings in "avwin.ini", it is best to manually copy the specific settings that you would like to keep, as the newer version of AutoVue may have important new settings.

If you obtained AutoVue from the download site, extract the contents of the zip file and run avsetup.exe. If you obtained the CD for AutoVue, run avsetup.exe that is in the win32 folder.

Follow on-screen instructions to complete the installation.

Functionality Enhancements

- Developed a new streamlined user interface for AutoVue:

- Redesigned icons
- Rearranged menu items based on usability studies
- Added support for multiple look and feel schemes. See ini option GUILOOK in section **“New INI File Settings” on page 8.**
- Renamed Cimmetry Metafile to AutoVue Streaming File.
- Added support for streaming file for the Desktop Version. Streaming file is a file format that is developed by Oracle that helps accelerate the display of large or complex designs and ensures optimized performance and high-speed data delivery. Streaming file speeds up subsequent loads of the file.
This is disabled by default. Go to the Configure dialog to enable creation of streaming files.
- Enhanced 3D look and feel. See **“MCAD Functionality” on page 2** for more on 3D look and feel and other 3D enhancements.
- Enhanced Markup functionality. Added filtering of markup tree, added text box entity. See **“Markup Functionality” on page 3.**

AutoVue Mobile

Developed AutoVue Mobile to enable viewing and marking up of design documents in a disconnected mode. AutoVue Mobile also enables you to share design documents and markups with your partners or suppliers that do not have access to your backend systems.

Using AutoVue Web Version, you can create a Mobile Pack for a file from your backend DMS/ERP/PLM/UCM system. Once the Mobile Pack is created, you can provide it to your suppliers/partners or you can access the file from a disconnected environment. You can use AutoVue Desktop Version in order to view and markup the file in the Mobile Pack when there is no access to the Web Version. If you added markups to the Mobile Pack, you can update your backend system with the markups from the Mobile Pack using AutoVue Web Version.

When creating a Mobile Pack, you can include the base file, all the external resources (fonts, xrefs) needed to fully display the file and associated markups in the Mobile Pack. You can choose to include the streaming file instead of the base file. You can also include PDF or TIFF renditions in addition to the base/streaming file when creating the Mobile Pack. You can also create policies to govern whether or not users that access the Mobile Pack can create new markups, modify existing markups or delete markups.

Once a Mobile pack is created, you can view the drawing and markups by viewing the Mobile Pack. You can create new markups or consolidate existing markups into one markup or create a master markup that loads automatically when you view the Mobile Pack.

When you have access to your DMS/ERP/PLM/UCM system, you can update all the markups from the Mobile Pack into the backend system. These markups will be imported into the system and will be associated with the base file from which you originally created the Mobile Pack.

Refer to the AutoVue user guide for more information regarding creating, opening and working with Mobile Packs.

Note: Creating a Mobile Pack from a DMS/ERP/PLM/UCM system and updating your backend system from a Mobile Pack are only supported with the Web Version and require the AutoVue Mobile product installed with the Web Version.

Note: Defining markup policy is only supported with the Web Version. However, defined markup policies are valid when you are marking up a Mobile Pack using the Desktop Version.

MCAD Functionality

- Enhanced the look and feel of the 3D workspace:
 - Added a second light profile with 2 positional light sources.
 - Added support for gradient background for 3D workspace. (Gradient background can be set from the Configure dialog box)

- Added support for adding image background for 3D workspace. (Image background can be set from the Configure dialog box)
- Improved 3D Axes look.
- Added reflective and reflective wire rendering modes to give 3D models a metallic look.
- Added support for missing XRefs notification in the model tree. See “**MCAD Formats**” on **page 3** to identify the formats that use this functionality.
- Added support for file properties on model tree nodes. This is displayed as another tab in the Entity properties dialog. See “**MCAD Formats**” on **page 3** to identify the formats that use this functionality.
- Added support for PMI captures, views, reference geometries and hyperlinks for some MCAD formats. See “**MCAD Formats**” on **page 3** to identify the formats that have support for these entities.

Markup Functionality

- Replaced the text entity with a text box entity with ability to draw a box and type text directly in the box. Text automatically wraps around when text box width is reached. Text box height is automatically set to the height of the contained text.
Added option to set box visibility off from the Markup Entity Properties dialog box.
- Enhanced the leader entity. A text box is created when a leader is created and text can be typed directly in the text box. Text automatically wraps around when text box width is reached. Text box height is automatically set to the height of the contained text. Added ability to set box visibility off (from Markup Entity Properties dialog box).
Added alignment options to the leader entity. Leader text can be aligned w.r.t. the leader polyline. Alignment options are available in the Markup Entity Properties dialog box.
- Added support for file attachment markup entity. Users can now add attachments to markup files.
- Added support for signoff entity for 3D drawings.
- Added numbering for note entities. Note entities created are automatically numbered sequentially. If you wish to disable automatic numbering, set INI option **NOTENAME_AUTOGEN** to 0.
See “New INI File Settings” on page 8
- Added support for filtering markup entities. Entities can be filtered by author, page, entity type, layer or modification date.
- Moved markup list (markup tree) to the bottom of the workspace. Added ability to move the markup tree by drag and drop action.
- Disabled markups for office formats by default.
Office formats render differently on different machines if the fonts on the machines vary. Due to differences in fonts, documents may have line breaks and page breaks that vary from one machine to another. This could result in a situation where markup entities appear misplaced w.r.t underlying text in documents. If you would like to re-enable markup creation for office formats, we recommend that you ensure that all machines viewing the office formats have the same fonts installed.
To enable, set INI option **EnableOfficeMarkups** to 1.
See “New INI File Settings” on page 8
- Removed the OLE markup entity from the Desktop Version. Added INI option **EnableOLEEntity** to re-enable OLE markup entity.
See “New INI File Settings” on page 8

MCAD Formats

- CATIA 5:
 - Added support for CATIA 5 R18
 - Added support for CATIA 5 R17 SP5/SP6
 - Added support for PostScript fonts for CATIA 5 Drawings
 - Added notification for missing XREFs to the model tree

- Added support for file properties on the model tree nodes
- PMI Enhancements
 - Added support for Captures
 - Added support for Views
 - Added support for Reference Geometries
 - Added support for PMI external hyperlinks
- Added support for Raster Fill patterns for CATIA 5 Drawings
- Added font substitution for missing native fonts
- Improved model tree display – more accurate name and hierarchy display
- CATIA 4:
 - Added notification for missing XREFs to the model tree
 - Added font substitution for missing native fonts
- Unigraphics
 - Added support for Unigraphics NX5
 - Added notification for missing XREFs to the model tree
 - Added support for file properties on the model tree nodes
 - Added font substitution for missing native fonts.
- SolidDesigner
 - Added support SolidDesigner 2007 (versions 15.00, 15.00A, 15.00B, 15.50, 15.50A)
 - Added notification for missing XREFs to the model tree
 - Added support for file properties on the model tree nodes
- Parasolids
 - Added support for versions 19.0 and 18.1
- Autodesk Inventor
 - Added notification for missing XREFs to the model tree
 - Added support for file properties on the model tree nodes
 - Improved parsing of Inventor files
- SolidWorks
 - Added support for SolidWorks version 2008
 - Added notification for missing XREFs to the model tree
 - Added support for file properties on the model tree nodes
 - Removed support for INI option SWSYMBOLFILE. Location to the symbol file can now be specified using the font path (XFONTPATHS ini option).
- SolidEdge
 - Added support for SolidEdge version 20
- IGES
 - Added notification for missing XREFs to the model tree
 - Added support for file properties on the model tree nodes
- Pro/ENGINEER
 - Added notification for missing XREFs to the model tree
 - Added support for file properties on the model tree nodes
 - Added font substitution for missing native fonts
 - Added support for PMI external hyperlinks
 - Added support for Hyperlinks in 2D files (for files saved with no display lists)
- STEP
 - Added support for XREFs for STEP Assemblies
 - Improved handling of large models
 - Added notification for missing XREFs to the model tree
 - Added support for file properties on the model tree nodes
- Maintenance and bug fixes for the following formats:
 - ACIS
 - CATIA 4
 - CATIA 5

- Autodesk Inventor
- SolidEdge
- SolidDesigner
- SolidWorks
- Pro/ENGINEER
- IGES
- STEP
- Unigraphics

AEC Formats

- Added support for IFC format.
- Added support for AutoCAD version 2009 files
- Added support for the following new features for AutoCAD version 2008 files:
 - MicroStation 8 underlays in AutoCAD drawings
 - Paragraph-based text formatting
- Added support for Mechanical Desktop version 2008
- Added support for ME10 (Onespace Designer Drafting) 2007 (versions 15.00A, 15.00B, 15.50, 15.50A)
- Added drawing (entity) information support for AutoCAD 2008
- Added support for TTF fonts for ME10 files
- Added support for SmartSketch version 2007
- Added font substitution for missing native fonts for the following formats:
 - AutoCAD
 - MicroStation 7 and 8
 - ME10/OnceSpace Designer
- Maintenance and bug fixes for the following formats:
 - AutoCAD
 - MicroStation
 - HPGL
 - ME10
 - Autodesk DWF

EDA Formats

- Added support for Zuken Cadstar version 9.0
- Added support for PADS version 2007
- Added support for OrCAD Layout and Schematics version 16
- Added support for Occurrence Attributes (OATs) for DxDesigner
- Added INI option ECAD_LOAD_3D_PAGE to enable/disable loading of 3D pages for EDA formats that contain 3D pages.

See “New INI File Settings” on page 8

- Improved performance for Allegro Layouts
- Added font substitution for missing native fonts for the following formats:
 - Altium Designer (Protel)
 - OrCAD Layout
 - Cadence Allegro
 - Cadence Allegro IPF
 - Mentor BoardStation
 - Mentor PADS
 - Zuken CADSTAR
 - P-CAD
 - PDIF
- Maintenance and bug fixes for the following formats:

- Cadence Allegro
- Zuken CADIF
- DxDesigner
- Expedition
- IDF
- Mentor BoardStation
- ODB++
- OrCAD
- Protel (Altium Designer)
- Spectra
- Zuken CadStar

Office Formats

- Added support for Word version 2007
- Added support for Excel version 2007
- Added support for Visio version 2007
- Added support for vertical text for Word
- Added support for external font mapping for the following formats:
 - Word
 - RTF

See docfont.map that is at <AutoVue Installation Directory>\avwin\fonts.
- Added support for grouped shapes for the following formats:
 - Excel
 - PowerPoint
- Added new option **OutlookLinkFlag** for Microsoft Outlook formats to disable hyperlinks or attachments or both.

See “New INI File Settings” on page 8

General

- Enabled interface for customized resource resolution DLL to give integrators more flexibility to locate external resources. Sample source code and DLL is located in the integrat\VisualC\reslocate directory.
- Added INI option ResLocateDll to enable the custom resource resolution DLL.
See “New INI File Settings” on page 8.
- Added new INI options to the ActiveX control to control visibility of the layers and blocks dialog boxes. See descriptions for Layers and Blocks in **“New INI File Settings” on page 8**. Options should be set in ActiveX’s INI file (default: avx.ini).
- Consolidated all Service Pack releases for 19.2 into this 19.3 release.

Documentation

A document for performance-related ini options, PerformanceRecommendations.pdf, is included. This document provides some guidelines that can help improve file load and manipulation performance. It is located in <AutoVue Installation Directory>\docs.

Formats Desupported in AutoVue 19.3

Due to low customer demand, Oracle AutoVue has dropped support for some file formats. This allows Oracle AutoVue to on formats that matter most in our key markets. Below is the list of file formats that are de-supported in release 19.3:

- CAD & Vector-based Engineering Formats

- Anvil
- CALCOMP
- Generic CADD
- STEP KOSDIC
- VDA-FS
- Electronic Design (EDA) Formats
 - Cadence Allegro Extract
 - GenCam
 - Mentor Neutral
 - GDS II
- Raster-based Engineering Formats
 - EDMICS
 - GTX
 - Hitachi
 - JEDMICS
- Vector Graphics formats
 - Corel Presentation Exchange
 - Lotus PIC file image
 - SVG
 - WordPerfect Graphics
- Hybrid Engineering Formats
 - GTX
- Raster & Bitmap Formats
 - AMIGA
 - CorelDraw! Bitmap Preview
 - CUT Raster
 - Databeam
 - GEN IMG Bitmap
 - MAC
 - SUN Raster
 - WordPerfect Graphics Bitmap
- FAX Formats
 - Brooktrout
 - Everfax
 - Frecom
 - Fujitso
 - Gamma
 - Generic-Fax
 - Hybrid J-T
 - Intel
 - Net-Fax
 - Product R&D Fax Modem
 - Raw Group III
 - Relisys
 - Ricoh
 - SciFax
 - SmartFax
 - Trigem
 - WinFax Pro
 - Worldport
- Word processor Formats
 - Amipro Document

- Amipro Style Sheet
- Microsoft Write
- Word for DOS
- WordPerfect
- WordStar
- Database Formats
 - Access
 - Database Express
 - FOX/Dbase
- Spreadsheet Formats
 - Lotus 1-2-3
 - Lotus symphony
 - Quattro
 - Quattro Pro for DOS
 - Quattro Pro for Windows
 - Symphony

Features Desupported in AutoVue 19.3

- Removed support for the following INI options for Adobe PDF documents:
 - OverridePDFPrintSecurity
 - SHOWPDFIMAGESINTRUECOLOR
- Nesting of a text markup entity with another markup entity is no longer supported

New INI File Settings

[ECAD]

Parameter	Description	Default
ECAD_LOAD_3D_PAGE	<p>Enable or disable display of 3D models of EDA files.</p> <p>Set to 0 to disable display of 3D model. This will result in improvements in file load performance.</p> <p>Set to 1 to enable display of 3D model.</p> <p>Option applies to the following PCB formats:</p> <ul style="list-style-type: none"> • Zuken CADSTAR • Cadence Spectra • Altium Designer (Protel) • OrCAD Layout • ODB++ • Mentor BoardStation • IDF • Mentor Expedition • Zuken CADIF • Cadence Allegro <p>Syntax: [ECAD] ECAD_LOAD_3D_PAGE=<1/0></p>	1

[Options]

Parameter	Description	Default
GUILOOK	Option supports different look and schemes for the AutoVue GUI (toolbars, menus, buttons and icons). Syntax: [Options] GUILOOK=<2000/2003/2005/XP> For example, when GUILOOK=2000, the look and feel of AutoVue matches the Windows 2000 theme.	2005
3DPerformancePreference=<0 1>	This option orients the optimization in the product towards speed or memory. If set to 1 , the optimization is assigned to the speed performance. If set to 0 , the optimization is assigned to memory usage. This option impacts only the loading process of EDA-3D and CATIA 4, CATIA 5, Pro/ENGINEER, Autodesk Inventor, SolidDesigner, Mechanical Desktop, ACIS, IGES and STEP 3D models.	1
EnableOfficeMarkups	Enable/disable creation of markups for office documents. Set to 1 to enable markups for office formats. Set to 0 to disable markups for office formats. Syntax: [Options] EnableOfficeMarkups=<0/1>	0
DEFAULTFILEUNITS	Specify the unit to use if native file does not contain units information. Syntax: [Options] DEFAULTFILEUNITS=<1/2/4/5/7/8/9/10/11/12/13/14/15> where 1 - inches 2 - millimeters 4 - twips 5 - centimeters 7 - meters 8 - kilometers 9 - feet 10 - yards 11 - miles 12 - mils 13 - miles/10 14 - microns 15 - microinches	1

Parameter	Description	Default
FastPMIRendering=<0 1>	<p>This option affects the rendering of PMI Text. If set to 1, the rendering time of the PMI Text is decreased. The quality of the small text will be degraded since it is rendered just as box or line made on the contour of the text. As a result, performance is improved. When you zoom in, entities will be rendered completely. If set to 0, the rendering time remains the same.</p> <p>Syntax: [Options] FASTPMIRENDERING=<0/1></p>	1
ResetRotateandFlip	<p>This option allows the user to choose rotation and flip settings when viewing files.</p> <p>Syntax: [Options] ResetRotateAndFlip=<0/1></p> <p>1 - render file with no rotation and no flipping. If native file itself is rotated or flipped, native file settings take precedence and file is rendered with saved rotation/flip.</p> <p>0 - render file with the rotation and flip settings defined in AutoVue GUI or in AutoVue INI file.</p>	1
ACAD_PENSETTINGSAFFE CTLINEWIDTH	<p>Option is for AutoCAD drawings. When set to 0, pen settings do not affect non-zero constant width polylines. When set to 1, pen settings affect non-zero constant width polylines.</p>	0
CustomDocFontSubstitution	<p>Specify the path of the font mapping file (docfont.map) to use for word documents.</p> <p>Syntax: [Options] CustomDocFontSubstitution=<path></p> <p>The docfont.map contains font mapping information that identifies what font to use if a font is missing. If you wish to modify font mappings, update docfont.map</p>	docfont.map in avwin/fonts
OutlookLinkFlag	<p>Enable or disable hyperlinks or attachments in Outlook MSG files.</p> <p>0 – Hyperlink on, Attachment on 1 – Hyperlink on, Attachment off 2 – Hyperlink off, Attachment on 3 – Hyperlink off, Attachment off</p> <p>Syntax: [Options] OutlookLinkFlag=<0/1/2/3></p>	0
DownloadWebResources	<p>Enable or Disable download of images and other web images when viewing Outlook MSG files.</p> <p>Syntax: [Options] DownloadWebResources=<0/1></p>	1

Parameter	Description	Default										
STEPHideCG	Set to 1 to hide all construction geometry in the STEP file. Syntax: [Options] STEPHideCG=<0/1>	0										
STEPFacePositiveColor	Option applies to STEP files. When set to 1, AutoVue uses either the color for “BOTH” sides of the face if it is set or the color of the “positive” face side if it is set. When set to 0, AutoVue uses either the color for “BOTH” sides of the face if it is set or selects the “positive” or “negative” face side color depending on the face sense. Syntax: [Options] STEPFacePositiveColor=<0/1>	0										
IFCCOLORS	<p>Specify group element colors for IFC files.</p> <p>Syntax: [Options] IFCCOLORS=GROUP_ELEMENT_NAME(r,g,b) or IFCCOLORS=GROUP_ELEMENT_NAME(col or_name) where GROUP_ELEMENT_NAME is the name of the group element. For example DOORS, WINDOWS, WALLS</p> <p>(r,g,b) is the RGB value for the color color_name is the string representing the color</p> <p>All color definitions should be on the same line and should be separated by spaces. For example: IFCCOLORS = WALLS(WHITE) DOORS(GREEN) WINDOWS(BROWN)</p> <p>Special element name OTHERS is used for all elements that are not in the color definition.</p> <p>Special color NONE is used when you want to use the 3D default element color for a group element.</p> <p>IFC pre-defined color extension is defined as below:</p> <table><tr><td>Color Name</td><td>(R,G,B)</td></tr><tr><td>LIGHTCYAN</td><td>(188,255,255)</td></tr><tr><td>BROWN</td><td>(205,91,69)</td></tr><tr><td>LIGHTYELLOW</td><td>(255,219,153)</td></tr><tr><td>CADETBBLUE</td><td>(122,197,205)</td></tr></table>	Color Name	(R,G,B)	LIGHTCYAN	(188,255,255)	BROWN	(205,91,69)	LIGHTYELLOW	(255,219,153)	CADETBBLUE	(122,197,205)	IFCCOLORS= WALLSTANDARD- CASES(255,255,255) CURTAIN- WALLS(255,255,255) DOORS(255,219,153) OTHERS(0,255,255) SLABS(205,91,69) WALLS(255,255,255) WIN- DOWS(122,197,205)
Color Name	(R,G,B)											
LIGHTCYAN	(188,255,255)											
BROWN	(205,91,69)											
LIGHTYELLOW	(255,219,153)											
CADETBBLUE	(122,197,205)											

Parameter	Description	Default
IFCCOLORS_MODE	<p>Define the mode for default element colors for IFC models.</p> <p>Syntax: [Options] IFCCOLORS_MODE=<0/1/2/3> where</p> <p>0 - Mechanism of default element color is turned off, i.e., colors are set from the file or if color is not specified in the file, the 3D default color specified in AutoVue is used.</p> <p>1 - File colors are ignored and only default colors are used.</p> <p>2 - Default colors are used only for elements without file-defined colors.</p> <p>3 - Default colors are used for elements without file-defined colors and to replace color BLACK.</p>	3
IFCREADProperties	<p>Enable or disable loading of attributes for IFC files.</p> <p>Set to 1 to display all supported entity properties for an IFC file.</p> <p>Set to 0 to display only the default entity properties which are Display Mode, Name and Visibility.</p> <p>Syntax: [Options] IFCREADPROPERTIES=<1/0></p>	1
IFCLoadInvisibleSpaces	<p>Enable or disable loading of internal spaces boundary geometry.</p> <p>Set to 1 to enable loading of internal spaces boundary geometry.</p> <p>Set to 0 to disable loading of internal spaces boundary geometry.</p> <p>Syntax: [Options] IFCLoadInvisibleSpaces=<1/0></p>	1
IFCWINDOW_TRANSPARENCY	<p>Specify the transparency level for windows in IFC files.</p> <p>Value is an integer between 0 (no transparency) and 100 (full transparency).</p> <p>Syntax: [Options] IFCWINDOW_TRANSPARENCY=55</p>	55

Parameter	Description	Default
J2KRESOLUTION	<p>Set to HIGH to display with a high resolution. This could cause a decrease in performance. Other values: LOW, MEDIUM, and DYNAMIC.</p> <p>You can also set J2KRESOLUTION values to +num or -num, where num is a number between 1 and 100.</p> <p>Setting the value to +num gives the same result as DYNAMIC but increases the resolution by a factor of num where num is a value from 1 to 100 (up to the maximum possible resolution of the image). Note that this will decrease performance. Setting to -num gives the same result as DYNAMIC but decreases the resolution by a factor of num where num is a value from 1 to 100 (down to the lowest possible resolution of the image). Note that this will increase performance.</p> <p>Syntax: [Options] J2KRESOLUTION=<DYNAMIC HIGH MEDIUM LOW +num -num></p>	DYNAMIC
ProELoadCosmeticWires	<p>Set to 0 to turn off display of cosmetic wires. Set to 1 to enable display of cosmetic wires.</p> <p>Syntax: [Options] ProELoadCosmeticWires=<0 1></p>	1
SWWIRECOLORVISIBLE	<p>Specify color to use for drawing solidworks wire-frame models for Solidworks drawings. Value should be an integer value specifying the RGB color.</p> <p>Syntax: [Options] SWWIRECCOLORVISIBLE=0</p>	0 (Black)
TextBitmapRendering=<0 1>	<p>If set to 1, render small text glyphs using bitmaps. If set to 0, text is not rendered using bitmaps. Note: This option may affect most text in PDF, TrueType text in ME10, and PostScript text in CATIA5.</p>	1
ResLocateDll	<p>Set this to the name of the custom resource resolution DLL with which you have defined your own localization callback.</p> <p>Syntax: [Options] ResLocateDll=ExampleDLL.dll</p>	empty

[Disable]

Parameter	Description	Default
Layers	Set 1 to disable ShowLayersDialog method and layer icon from GUI. Set 0 to enable. Option valid for ActiveX only. Syntax: [Disable] Layers=<0/1>	0
Blocks	Set 1 to disable ShowBlocksDialog method and block icon from GUI. Set 0 to enable. Option valid for ActiveX only. Syntax: [Disable] Blocks=<0/1>	0

[Markup Options]

Parameter	Description	Default
NOTENAME_AUTOGEN	Set to 0 to disable auto-numbering of note entities. Set to 1 to enable auto-numbering. Syntax: [Markup Options] NOTENAME_AUTOGEN=<0/1>	1
ATTACHMENT_MAX_SIZE	Specify the maximum size for attachment markup entities. When creating attachment markup entities, if attachment size exceeds, an error message appears to indicate that attachment size exceeds the limit. Syntax: [Markup Options] ATTACHMENT_MAX_SIZE=<value> value is in MegaBytes.	0 (no limit)
EnableOLEEntity	Set to 1 to re-enable OLE markup entity. When set to 1, OLE entity creation is available through the menu Markups > Add Entity > More > OLE Entity . OLE markup entity is disabled by default in version 19.3. Syntax: [Markup Options] EnableOLEEntity=<0/1>	0

[Metafiles]

Parameter	Description	Default
Enabled	Set to 1 to enable generation of streaming files. Streaming file format is developed by Oracle AutoVue to improve performance for subsequent loading of files. When enabled, when you open and close a file, AutoVue generates a streaming file. Subsequent rendering of this file reads the streaming file. Syntax: [Metafiles] Enabled=<0/1>	0
Folder	Specify path to the folder where streaming files will be stored. Syntax: [Metafiles] Folder=C:\AutoVue\StreamingFiles	None
ControlSize	Specify the size limit for the folder where streaming files will be stored. When set to 0, there is no size limit for the folder. When set to a number, this will be the size limit for the folder in MegaBytes. Syntax: [Metafiles] ControlSize=512	0
WriteEnabled	Enable/disable the support for streaming file creation. When set to 1, streaming file writing (creation) and reading is allowed. When set to 0, streaming file writing is disabled and streaming file reading is allowed. Syntax: [Metafiles] WriteEnabled=0	1
WriteEnabledPDF	Enable/disable creation of streaming files for PDF format. When set to 0, streaming file will not be generated for PDF. When set to 1, streaming file will be generated for PDF.	0

[Export Options]

Parameter	Description	Default
EXPORTTESSELLATIONTO L	Control the mesh density when converting to 3D STL. Meshes are more dense if tolerance value is smaller. Syntax: [Export Options] EXPORTTESSELLATIONTOL=val where val can be 0.01, 0.005, 0.001, 0.0001	0

[AutoVueMobile]

Parameter	Description	Default
FileStreamEncryption	Specify Encryption algorithm for both Markup and Mobile Pack password protection. Syntax: [AutoVueMobile] FileStreamEncryption=<RC4/3DES>	RC4

AutoVue 19.2: July 18, 2007

Packaging and Licensing

- Introduced new product packages (AutoVue EDA Professional, AutoVue Electro-Mechanical Professional, and AutoVue 3D Professional-SME) and renamed some of the existing packages.
- Changed demo expiry for AutoVue Desktop Edition from 30 to 15 days.

System Requirements

- A personal computer with a minimum Intel Pentium CPU, 256 MB RAM
 - Microsoft Windows 2000, 2003, XP, or Vista 32-bit
 - A hard disk with at least 300 MB of hard disk space
 - Windows-supported pointing device such as a trackball or mouse
- Note:** The memory requirement is dependent on the size and complexity of files you try to view with AutoVue.

MCAD Formats

- CATIA 5:
 - Added support for CATIA 5 R17 and R17 Sp3/Sp4.
 - Performed the following maintenance and bug fixes for CATIA 5 files:
 - Improved projection of curves onto surfaces for CATIA 5 3D.
 - Improved support for text size and balloon text size for CATIA 5 Drawings.
 - Improved support for axis lines for CATIA 5 Drawings.
 - Improved rounding of dimension values and tolerances for CATIA 5 Drawings.
 - Fixed position problem of some title block entities for CATIA 5 Drawings.
 - Fixed display of radius projected dimensions for CATIA 5 Drawings.
 - Added support for 3D Points for 3D files.
 - PMI enhancements:
 - Added support for NOA (Note Object Attributes) for 3D files.
 - Added support for TTF and Postscript fonts to render PMI entities in 3D files.
 - Added support for Z-Order.
 - Improved Text Alignment in Text Notes.
 - Added support for wires in BRep for 3D part files.
 - Improved color in BRep Mode for 3D files.
 - Improved display name of construction geometries in the model tree for 3D files.
 - Added support for Geometrical sets for 3D files.
 - Added Mass Properties enhancements.
 - Added support for Embedded JPEG and CCITT G3 raster images in 2D files.
 - Improved support for hatching in drawings files.
 - Added support for balloons in drawings files.
- Unigraphics:
 - Added support for Unigraphics NX3 and NX4.
- SolidDesigner:
 - Added support for SolidDesigner version 2006 (version 14.00).
 - Added support for wires, WorkPlanes and Helical surfaces for 3D files.
- Pro/ENGINEER:
 - Added support for Pro/ENGINEER Wildfire 3.0.
 - Enhanced PMI support for 3D files.
 - Added support for Exploded Views in 2D files.
 - Improved display of datum entities in 2D files (plane, axis, coordinate systems, etc.).
 - Added support for Dual geometry tolerances in 2D files.
 - Added support for Note parametric drawing labels in 2D files.

- Added support for the Picture file format (.pic) for 2D files.
- Added the ProEShowHiddenLineDashed INI option to control the display and printing of hidden lines. See “New INI File Settings” on page 21.
- Added the ProE2DViewDefaultStyle INI option to specify a default style to display 3D projected views. See “New INI File Settings” on page 21.
- Added the ProE2DTanEdgeDefaultStyle INI option to specify the default line style for tangent edges. See “New INI File Settings” on page 21.
- SolidWorks:
 - Added support for SolidWorks version 2007.
 - Improved display of SolidWorks drawings containing 3D overlays.
 - Added support for TrueType fonts to render PMI entities in 3D files.
 - Added support for layers in SolidWorks 2007 2D files.
 - Removed support for INI option SWSYMBOLFILE. Location to the symbol file can now be specified using the font path (XFONTPATHS ini option).
- CATIA 4:
 - Added support for Italic style for Dimension2 Text.
 - Added support for units in dimensions.
 - Performed general bug fixes for CATIA V4.
 - Added new INI option CATIAPROJECTFILEPATH to specify the path to the project file. See “New INI File Settings” on page 21.
- Parasolid:
 - Added support for version 17.1 and version 18.0.
- Autodesk Inventor:
 - Added support for Autodesk Inventor 2008 and Autodesk Inventor 11.
 - Added support for native file properties.
 - Improved support for feature assemblies.
 - Improved support for embedded objects through the bookmark tree.
 - Added support for 2D layers.
- SolidEdge:
 - Added support for SolidEdge version 19.
 - Added support for file properties.
- IGES:
 - Added support for XRefs.

EDA Formats:

- Added support for Cadence Allegro versions 15.5, 15.5.1, and 15.7.
- Added support for Mentor Expedition version 2005.
- Added support for Mentor Board Station version 8.10.
- Added support for CadStar version 8.0.
- Added support for ODB++ version 6.5.
- Added support for Altium Designer versions 6.0, 6.3, 6.4, and 6.5.
- Added support for PADS2005 SPac2 and SPac3.
- Added support for DxDesigner 2005.
- Added support for Protel DXP/2004 binary and ASCII Schematics.
- Added support for Protel DXP Project files.
- Added 3D support for ODB++.
- Added support for Layout and Capture for Orcad 15.7.
- Added 3D support for Zuken CADIF.
- Added 3D support for Cadence SPECCTRA files.
- Added support for Junctions, Native layer sets, and Tie legs in Expedition files.
- Added support for **Go to Net Instances** for Mentor Expedition Design Capture files.
- Performed maintenance and bug fixes for all EDA formats we support.

AEC Formats:

- Added support for AutoCAD 2007 Service Pack 1 and AutoCAD 2008.
- Added support for Autodesk Mechanical/Mechanical Desktop version 2007.
- Added support for ME10 2006 (OneSpace Designer Drafting version 14.00).
- Added support for MicroStation version 8 XM.
- Added support for RGB colors in MicroStation version 8 XM files.
- Improved support for 3D MicroStation 7 files.
- Added support for SmartSketch versions 4.0 and 5.0.
- Added support for DWF versions 6.01, 6.11, 6.20.
- Added support for JPEG-CYMK format.
- Added support for Drawing Info for AutoCAD version 2007 files (EDAT).
- Improved support for Viewport Front and Back clipping for AutoCAD files.
- Improved splines display for CadKey files.
- Improved linestyle support for CGM files.
- Added support for Visibility of Raster XRefs in DGN8 XM files.
- Performed maintenance and bug fixes for the following formats: CadKey, CGM, DGN 7/8, Autodesk DWF, AutoCAD DWG, HPGL, and ME10.

Office-Desktop Formats

- Added support for Microsoft Outlook format.
 - Added support for Adobe Acrobat 8.0 including packages files.
 - Added support for 1904 Date System in Excel files.
 - Microsoft Word:
 - Added support for "Keep with Next" flow control.
 - Added support for "Orphan Control" flow control.
 - Added support for Hyperlinks.
 - Added support for Bookmarks.
 - Added support for Nested Tables.
 - Added support for Gradient fill.
 - Added support for Legacy tabs.
 - Added the DOC_SHOWTABLEGRIDLINES INI option to show or hide table gridlines.
- See “New INI File Settings” on page 21.**
- Performed maintenance and general bug fixes for the following formats: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, RTF, PDF, TXT, and Visio

Raster Formats

- Performed maintenance and bug fixes for TIFF, JPEG, and JPEG 2000 formats.

MCAD Functionality

- Improved accuracy of mass properties computation. Also added error reporting when Mass Properties computation fails.
- Replaced 3D Global Axes with new Volumetric Axes with better orientation perception and readability.

EDA Functionality

- Enhanced and improved the usability of cross-probe functionality:
 - Added support for both built-in (auto) and user defined logic that determines the target design type to cross probe against for files containing multiple designs and/or multiple design types (PCB vs. schematic).

- Added support for Net and RefDes instance Navigation: If the target Net or component is present on multiple schematic sheets, the user is able to select navigate through all the instances.
- Enhanced and improved usability of layer ordering and layer visibility:
 - Added support for physical layers in the Layers dialog.
 - Added support for setting visibility of physical layers.
 - Enhanced entity filtering feature: Added ability to control the visibility of entity types independently for each physical layer.
 - Added support for a "Bring to front" feature that puts a physical layer at the front (on top) of all other layers with a single click.
 - Added support for logical layer ordering through drag and drop of single or multiple layers.
- Improved overall usability of the Layers dialog.
- Improved rendering performance when layer visibility is modified.
- Added support for layer sets that are saved in Allegro and Expedition designs.
- Added support for tooltips to display entity properties by hovering the mouse over the entity.
- Added support for entity search/browse across multiple sheets of a schematic.
- Improved entity selection highlighting:
 - Added a button to the toolbar for more accessible control over the entity highlight type.
 - Added control over dim level when Dim Unselected is selected.
- Improved performance for EDA functionality: Minimum distance and Design Verification.
- Added support for Multipage Nets for many Schematics formats (PADS, Mentor Board Station, Zuken CadStar, Orcad Capture, Mentor Expedition, IFF, Cadence Concept Design Entry HDL, and DxDesigner)
- Added support for partial and partial with toggle layer sets in Cadence Allegro files.

Markup Functionality

Improved usability of markup functionality:

- Added support for sorting in the markup entity tree.
- Added support for turning markups on/off and setting the active markup from the markup tree.
- Added support for setting all entity graphical attributes from within a single dialog.
- Added the ability to add arrows to all line entities.
- Added tooltips that display information about an entity's creator (Author) and its creation date.
- Added display of page number on the status bar in markup mode.
- Improved workflow for entering markup mode. The **Markup Open** dialog only appears when needed.
- Added an option to turn off markups after they have been consolidated; Shows the consolidated markup instead.
- Added the ability to press the ESC key to abort creation of markup entities.

General Functionality

- Implemented a new Configuration dialog with major usability enhancements.
- Better handling of multi-page documents in Compare mode, for 2D files with the same number of pages (Specifically, the ability to synchronize page numbers between the two documents being compared).

General

- Added new product variations: AutoVue EDA Professional, AutoVue Electro-Mechanical Professional, and AutoVue 3D Professional - SME.
 - Refer to **formats.pdf** for the formats supported by these product variations.
 - Refer to **featurelist.pdf** for the features included in these product variations.

- Improved the messages that appear when a license is exceeded.
- Consolidated all Service Pack and Format Pack releases for 19.1 into this 19.2 release.

Unavailable Support in AutoVue 19.2

Support for the following formats is no longer available in AutoVue 19.2:

- DirectModel (JT) versions 8, 7, 6.4
- VRML versions 2, 1.1, 1.0, 97
- Postscript (EPS)
- Adobe Illustrator version 8 and below
- Archived Formats: 7Zip, BZip, CAB, Debian, GZip, RAR, RPM, TAR

Support for the following features is no longer available in AutoVue 19.2:

- Conversion to Compuserve GIF, Epson, FAX

Customers who work with these formats regularly are encouraged to remain with their AutoVue 19.1 version and not update to 19.2. Customers will be notified when support for these formats is re-introduced.

Native font resources for the formats listed below will not be shipped in AutoVue version 19.2. These fonts can be either obtained from the native application or can be downloaded from the Internet.

- 2D: AutoCAD, MicroStation 7 and 8 (linestyle resources will not be shipped), ME10/OneSpace Designer Drafting
- EDA: Cadence Allegro, Cadence Allegro Extract, Cadence Allegro IPF, Mentor BoardStation, Mentor PADS, OrCAD layout, PCAD, PDIF, Protel, Zuken CadStar
- 3D: Pro/ENGINEER, Unigraphics, CATIA 5, CATIA 4, SolidWorks (symbol file will not be shipped), SolidDesigner Bundle files

To add these fonts to AutoVue, please refer to the section **Configuring Font Paths** in the User Manual.

New INI File Settings

[Options]

Parameter	Description	Default
2DSELECTION_DIMLEVEL	Specify the dim level. The value corresponds to a percentage. For example 0.3 is 30%. Change takes effect whether you change it manually or through the GUI. Syntax: [Options] 2DSELECTION_DIMLEVEL=[0.0 - 1.0]	0.5
3DMASSPROP_MESH_BEHAVIOR	Specify how to handle mesh body when computing mass properties. This option can have one of the following values: 0 - Exclude from mass property computation. 1 - Include in mass property computation. 2 - Handle selection: Include in mass property computation only if the selection is fully made with mesh bodies. Syntax: [Options] 3DMASSPROP_MESH_BEHAVIOR=[0 1 2]	1

Parameter	Description	Default
3DASSPROP_SHEET_BEHAVIOR	Specify how to handle sheet body when computing mass properties. This option can have one of the following values: 0 - Exclude from mass property computation. 1 - Include in mass property computation. 2 - Handle selection: Include in mass property computation only if the selection is fully made with sheet bodies. Syntax: [Options] 3DASSPROP_SHEET_BEHAVIOR=[0 1 2]	2
CATIA5BuildCGMSETS	Controls the display of Geometrical sets. Set to 1 to show geometrical sets structure in the Model Tree. Syntax: [Options] CATIA5BuildCGMSETS=<0 1>	1
CATIAProjectFilePath	Specify the directory path for the location of project files. If the option is set, it will override the existing INI option CATIAProjectFile. Otherwise if the option is not set or project file(s) cannot be found in the specified directory, the old option (CATIAProjectFile) will be used. Syntax: [Options] CATIAProjectFilePath=<file path>	empty
DGN8LWDISPLAYSCALE	Specify a floating point value, larger or equal to 0.0, representing the scaling factor which would be applied to all line weights in the drawing. Set to 0.0 : Reduces all line weights to 0 (1 pixel width). Set to 1.0 : Line weights remain at their default value. Set to 0.5 : Reduces all line weights by half Set to 2.0 : Multiplies all line weights by 2. Syntax: [Options] DGN8LWDISPLAYSCALE = [0.0-1000.0]	1.0
DOC_SHOWTABLEGRIDLINES	Turn table gridlines on and off. Set to 1 to display the table gridlines. Set to 0 to hide the table gridlines. Note: Unlike cell borders, gridlines never print. Syntax: [Options] DOC_SHOWTABLEGRIDLINES = <0 1>	0
ForcePMIsZOrder	Invalidate the PMI_ATTRIB_RENDERABOVEMODEL generic attribute effect : 3D PMIs are not forced above the model and may be occluded by it, depending on its orientation. Syntax: [Options] ForcePMIsZOrder = <0 1>	0

Parameter	Description	Default
FULLCOLORPRINTERSUPPORT	<p>Enable color printing for some monochrome images.</p> <p>Set to 0: Default AutoVue behavior, where some transparent monochrome images are not printed in color due to some printers that do not fully support transparency.</p> <p>Set to 1: Enables certain monochrome images to be printed in color with color printers. This flag should not be set by default because it has some drawbacks and may cause some problems on some printers.</p> <p>Enabling option 1 could cause a decrease in performance:</p> <ul style="list-style-type: none"> The spool size is much larger because there is 8 to 24 times more information sent to the printer. Not all printers support image transparency and using them with this option may yield incorrect results. <p>Syntax: [Options] FULLCOLORPRINTERSUPPORT = <0 1></p>	0
GpsOutText	<p>Set to 1: When you run outtext.exe, it only reports the first level of Xrefs in the hierarchy with the fully resolved/qualified path to the Xrefs.</p> <p>Set to 0: When you run outtext.exe, all Xref instances are reported and the path to the Xrefs is not fully qualified.</p> <p>Syntax: [Options] GpsOutText=<0 1></p>	0
IGESLOADDRAFTFIRST	<p>Set to 1 to display the 2D page first, display of the 3D page as a 2D projection of the 3D model, in IGES files.</p> <p>Syntax: [Options] IGESLOADDRAFTFIRST = <0 1></p>	0
J2KRESOLUTION	<p>Added two new possible values for this option.</p> <p>Setting to +num gives the same result as DYNAMIC but increases the resolution by a factor of num where num is a value from 1 to 100 (up to the maximum possible resolution of the image).</p> <p>Setting to -num gives the same result as DYNAMIC but decreases the resolution by a factor of num where num is a value from 1 to 100 (down to the lowest possible resolution of the image).</p> <p>Syntax: [Options] J2KRESOLUTION = [DYNAMIC HIGH MEDIUM LOW +num -num]</p>	DYNAMIC IC
LWDEFAULT	<p>Set the default line weight.</p> <p>Specify a value between 1 (which corresponds to 0.01mm) and 100 (which corresponds to 1mm). Default value is 25 (which corresponds to 0.25mm).</p> <p>Syntax: [Options] LWDEFAULT = [1-100]</p>	25

Parameter	Description	Default
MESHBUILDTOPOLGY	<p>Set to 0 if you do not want to build the topology in mesh mode. Applies to the following file formats:</p> <ul style="list-style-type: none"> • CATIA 5 • Pro/ENGINEER • SolidWorks • Unigraphics • STL <p>Note: This option replaces the following INI options: SWBUILDMESHTOPOLGY, CATIA5MeshBuildTopology and BUILDMESHTOPOLGY.</p> <p>Syntax: [Options] MESHBUILDTOPOLGY = <0 1></p>	1
NOSYMBOLTTF	<p>Set to 1 to override the Charset of Symbol fonts. It will be replaced by the default Charset. This option applies to DWF and DWG files only.</p> <p>Syntax: [Options] NOSYMBOLTTF = <0 1></p>	0
ProE2DTanEdgeDefaultStyle	<p>Specify the default line style for tangent edges if it is not saved in the native file. The styles are:</p> <ul style="list-style-type: none"> 0 - Solid 1 - Disabled 2 - Control 3 - Phantom 4 - Dimmed <p>Syntax: [Options] ProE2DTanEdgeDefaultStyle = [0-4]</p>	0
ProE2DViewDefaultStyle	<p>Specify a default style to display 3D projected views:</p> <ul style="list-style-type: none"> • HIDDEN • WIREFRAME • SHADING • NO HIDDEN <p>Syntax: [Options] ProE2DViewDefaultStyle = [HIDDEN WIREFRAME SHADING NO HIDDEN]</p>	NO HIDDEN
ProEShowHiddenLineDashed	<p>This option controls the display and printing of hidden lines contained in Pro/ENGINEER drawings.</p> <p>Set to 1 to display and print hidden lines as dashed lines.</p> <p>Set to 0 to display and print hidden lines as solid lines.</p> <p>Syntax: [Options] ProEShowHiddenLineDashed = <0 1></p>	0

Parameter	Description	Default
TIFF_ZERO_PIXEL	Specify how pixel values are interpreted in black and white TIFF files. Set to BLACK to force zero pixels to display black. Set to WHITE to force zero pixels to display white. Set to FILE to force zero pixels to display as the pixel color specified in the file. Note: This only applies to black and white TIFF images. Syntax: [Options] TIFF_ZERO_PIXEL = [BLACK WHITE FILE]	FILE

[ECAD]

Options should be specified in the [ECAD] section in the INI file.

Parameter	Description	Default
ALLEGRO_USETRUETYPEFONTS	Set to 0 to use stroke font. Set to any other integer value to use TrueType font instead. Syntax: [ECAD] ALLEGRO_USETRUETYPEFONTS = <0 1>	0
ECAD_3D_SHOWHOLES	Set to 1 if you want holes to be drawn in the 3D model. Set to 0 if you do not want holes to be drawn in the 3D model (increases performance). Note: Currently only affects Allegro files. Syntax: [ECAD] ECAD_3D_SHOWHOLES = <0 1>	0
ECAD_CROSSPROBE_ZOOM	Specify entity selection behavior when crossprobing EDA files. This option can have one of the following values: 0 - Keep zoom level 1 - Zoom selected 2 - Zoom Fit Syntax: [ECAD] ECAD_CROSSPROBE_ZOOM=<0 1 2>	1
ECAD_CROSSPROBE_AUTOMATIC	Specifies whether the Automatic option is enabled or disabled when cross probing EDA files. Set to 1 to enable Automatic mode during an EDA cross probe. Set to 0 to disable Automatic mode during an EDA cross probe. Syntax: [ECAD] ECAD_CROSSPROBE_AUTOMATIC=<0 1>	1

ECAD_LAYER_EXPANDCOL LAPSE_LOGICAL	Expand or collapse the Logical Layers pane in the Layers dialog. Set to 0 to expand the Logical Layers pane. Set to 1 to collapse the Logical Layers pane. Syntax: [ECAD] ECAD_LAYER_EXPANDCOLLAPSE_LOGICAL = <0 1>	1
ECAD_LAYER_EXPANDCOL LAPSE_PHYSICAL	Expand or collapse the Physical Layers pane in the Layers dialog. Set to 0 to expand the Physical Layers pane. Set to 1 to collapse the Physical Layers pane. Syntax: [ECAD] ECAD_LAYER_EXPANDCOLLAPSE_PHYSICAL = <0 1>	0
EDASCHSCOPE	EDA entity searching scope. Set to 1 : the search scope is the entire design. Set to 0 : the search scope is current page. Syntax: [ECAD] EDASCHSCOPE=<0 1>	0

[MARKUP OPTIONS]

Option should be specified in the [MARKUP OPTIONS] section in the INI file.

CONSOLIDATE_OPENASACTIVE	Set to 1 to turn on the Open as Active Markup option in the Markup Consolidation dialog. Set to 0 to turn off this option. Syntax: [MARKUP OPTIONS] CONSOLIDATE_OPENASACTIVE = <0 1>	1
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[PRINTOPTIONS]

Options should be specified in the [PRINT OPTIONS] section in the INI file.

Parameter	Description	Default
PAGERANGE	Added a new value, CURRENT, to print the current page. Syntax: [Print Options] PRINT-OPTION PAGERANGE CURRENT	0

[UI Colors]

Options should be specified in the [UI COLORS] section in the INI file.

Parameter	Description	Default
BKCOLOREDA	<p>Specify background color for EDA files.</p> <p>Note: For each color option, specify an integer that represents an RGB color (Red + 256 * Green + 65536*Blue). The values for Red, Green, and Blue range from 0 to 255.</p> <p>Syntax: [UI Colors] BKCOLOREDA</p>	0

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