

Release Notes: Oracle AutoVue 20.0.0, Desktop Deployment

Packaging

- Oracle AutoVue (previously called Oracle AutoVue Web Version) now supports two deployment methods: Client/Server and Desktop deployment methods. The previous AutoVue Web Version product is now the Client/Server deployment of AutoVue. A new Desktop deployment has been developed for users that want to install AutoVue as a standalone product locally.

System Requirements

- Windows XP 32-bit
- Windows Vista 32-bit
- The installation requires about 400MB of free space.

AutoVue Installation

AutoVue installation consists of the following steps:

- 1 “Installing AutoVue”
- 2 “Configuring AutoVue”
- 3 “Command-Line Configurations for AutoVue”
- 4 “Verifying Your AutoVue Installation”

Refer to the *Installation and Administration Manual* for instructions.

3D Functionality Enhancements

- Added 3D Walkthrough capabilities which allow users to view 3D models from within and explore buildings and structures.
- Enhanced 3D distance measurements
 - Improved snapping options for 3D distance and 3D minimum distance measurements. Snapping options let you snap to vertices, lines, arc centers and planes. If you wish to revert to 19.3 measurements (snap to vertices, edges and points on faces), set the SHOW_POINTOPOINT_PAGE INI option. Refer to the *Installation and Administration Manual* for more information.
 - AutoVue now computes the minimum distance between two geometries instead of the distance between points on geometries.
 - Added ability to measure the minimum distance between a 3D part and a sectioning plane.
- Added ability to restore to 3D default view. If you transform or manipulate your model and you would like to restore to the view at which the model loaded initially, you can do so by selecting the **Default View** item that has been added to the Views tree and the **Views** menu.
- Enhanced 3D entity search to allow users to specify a search string. This search feature returns all 3D entities that contain the search string in their attribute names and/or attribute values.

Printing and Conversion Enhancements

- Updated the Conversion to PDF feature. When converting a file to PDF, Markups are now included as graphical elements in the PDF instead of being added as annotations to the PDF. If you wish to revert to the old behavior (convert to PDF annotations), set INI option CONVERTPDFTHROUGHPRINTING to 0.
- Moved printing to the client-side by default. Added **Java Printing** (client-side printing) as the default option in the Print dialog. To use the previous release's native printing, deselect the **Java Printing** checkbox. Refer to the "Printing Options" section of the *User's Manual* for more information.

General Enhancements

- Added ability to align and scale drawings in 2D and EDA compare modes. You can now snap to a point on both drawings to align the drawings, or snap to two points on both drawings to align and scale the drawings.
- Improved support for files created on non-English locales.

Performance Improvements

- Improved performance for MicroStation designs.
- Improved interactive rendering of 3D models.
- Improved ability to load and work with large 3D models.

MCAD Formats

- Added support for Pro/Engineer WildFire 5 and WildFire 4
 - Added support for Unigraphics NX6
 - Added support for Solid Edge ST and ST2
 - Added support for Autodesk Inventor 2010, 2009
 - Added support for Cocrete Modeler versions 2008 (16.XX)
 - Added support for Revit 2010 (through exchange format)
 - Added support for Solidworks 2010 and 2009
 - Added support for CATIA 5 R19
 - Re-introduced support for DirectModel (JT) versions 8.1, 8, 7, and 6.4
 - Added support for Unicode file names
 - Added support for Chamfer, Bend Notes, and Revision tags for Autodesk Inventor drawings
 - Added support for one-symbol diameter dimensions for CATIA 5 drawings
 - Added support for Parasolids version 22.0, 21.0, 20.0 and 19.1
 - Added support for STL assemblies
 - General enhancements for CATIA 4
 - Performance improvements for CATIA 4
 - Added support for PMIs
 - Improved support for text display (alignment, orientation, and positioning)
 - Improved support for text frames
 - Consolidated CATIA 5 INI options CATIA5ShowPMI and CATIA5ShowPMIWithMesh into a single INI option: CATIALOADPMI
- See "New INI File Settings" on page 5**
- Added support for project-related attributes for IFC
 - General bug fixes for:
 - Pro/Engineer
 - Unigraphics
 - CATIA 4
 - CATIA 5
 - SolidWorks
 - SolidEdge

- Autodesk Inventor
- Directmodel (JT)
- IFC
- STEP

AEC Formats

- Added support for SmartsSketch version 2009
- Added support for Ccreate Drafting 2008 (16.XX)
- Added support for AutoCAD/Autodesk Mechanical Desktop version 2010, 2009
- Added support for AutoCAD 2010
- Added support for MicroStation 8i
- Added support for DWF 3D
- Performance improvement for Microstation 8 3D and Microstation 7 3D
- Added support for hyperlinks associated with WebCGM drawings
- Enhanced parts display in block lists to match the order and representation of Ccreate drafting
- Added new INI option ACADDEFAULTSHAPEFONT to allow users to specify default shape font for AutoCAD drawings

See "New INI File Settings" on page 5

- Added support for user-defined bigfont code-page for AutoCAD. Bigfont information should be added to [BIGFONTCODEPAGES] section of acadfont.map which is located in the <AutoVue install folder>\bin directory. Bigfont code page mapping is only needed for AutoCAD versions 2007 and up. For more information on mapping, refer to the instructions provided in acadfont.map.
- Improved support for non-English text in AutoCAD
- Improved display of dimensions in Microstation 8
- General bug fixes for:
 - AutoCAD
 - MicroStation
 - Ccreate Drafting
 - Autodesk DWF
 - CGM
 - HPGL
 - Shapefile

EDA Formats

- Added support for Allegro PCB Layouts versions 16.3, 16.2, and 16.0
- Added support for Allegro Design Entry HDL 16.3, 16.2, and 16.0
- Added support for Altium Designer versions 6.6, 6.7, 6.8 and 6.9, Summer 2008, Winter 2009, and Summer 2009
- Added support for Zuken Cadstar versions 10.00 and 11.00
- Added support for P-CAD 2006
- Added support for locating external reference files for non-archived Allegro projects, DxDesigner, Expedition, ODB++ and Mentor BoardStation files. There is now no need to specify XRefs path if the resources are located at the base file path.
- Added support for OrCAD Layout and Capture version 16.2
- Reintroduced support for GDS-II
- General bug fixes for:
 - Allegro PCB Layouts
 - Allegro Design Entity HDL
 - P-CAD
 - DxDesigner

- Expedition
- Mentor BoardStation

Office Formats

- Added support for Adobe Acrobat PDF 9.0
- Added support for PowerPoint 2007
- Added support for text and shape hyperlinks for PowerPoint files
- Added support for Smart Art for PowerPoint XML
- Improved support for Word:
 - Added support for default Asian line spacing.
 - Added support for search, copy, and paste.
 - Added support for auto-numbering.
- Improved chart support for Excel
- Improved support for PDF transparency and soft masks.
- General bug fixes for:
 - Adobe Acrobat PDF
 - Powerpoint
 - Word
 - Excel
 - RTF

Raster Formats

- Re-introduced support for JEDMICS

Archive Formats

- Added support for TAR and GZIP formats

Documentation

The following documents have been updated in 20.0.0:

- *Installation and Administration Manual*
- *User's Manual*
- *Acknowledgments*
- *Supported File Formats*
- *Product Limitations*
- *Release Notes*
- *Product Variations - Feature Matrix*

Formats Desupported in AutoVue 20.0.0

- Support for IGES 3D has been removed from AutoVue 20.0.0. Customers who work with this format are encouraged to remain with their AutoVue 19.3.x version and not update to 20.0.0. Customers will be notified when support for IGES 3D has been re-introduced.
- Removed support for LHA archive format.

Features Desupported in AutoVue 20.0.0

- Removed support for the following INI options:
 - ME10FORCE19.1MARKUPCOMPATIBILITY
 - DNGPLOTTERDRIVER
 - DGNUSEPLOTTERSETTINGS
 - DGN8LSTYLERSC
 - DGNFONTMAP
 - CATIA5SHOWPMIWITHMESH
 - PDFDPIRESOLUTION
 - PDFCACHELEVEL
 - CATIA5SHOWPMI
 - FIXPRINTING
- In Markup mode, it is not possible to anchor a Text box to a Circle markup.

INI Options Updated in AutoVue 20.0.0

- ANTIALIAS
- CONTRAST
- VISIOPAGEBKCOLOR
- 3DPERFORMANCEPREFERENCE
- DGN_FAST3D

Refer to the *Installation and Administration Manual* for information regarding these options.

New INI File Settings

General Options

Configure options that apply to parameters such as fonts, performance, and color

[Options]

Parameter	Description	Default
CONVERTPDFTHROUGHPRINTING = <0 1>	Specifies whether markups should be rendered through printing or converted to PDF annotations through markup conversion module. Set to 1 to render through printing. Set to 0 to convert to PDF annotations.	1
ENABLEUFCAUTOCOMPLETE=[0 1]	Specifies whether to enable the filename auto-completion option for the File Open dialog. Set to 1 to enable filename auto-completion option. Set to 0 to disable filename auto-completion option.	1
REPLACEMENTFONTS= <i>font1;font2;...;fontn</i>	Specifies a list of replacement TrueType fonts to use when required TrueType fonts do not have the required glyphs. This option applies to all 2D vector formats containing non-English TrueType text. Specify a semicolon (;) separated list of font face names.	

STATUSBARPATHPREFERREDWIDTH = <numeric value>	<p>Specifies the character width of the file name field in the status bar.</p> <p>When you specify a value for StatusBarPathPreferredWidth, it controls the proportion of the file name field with respect to the other fields displayed in the status bar. The file name field width will vary when loading different types of formats or if the applet size changes. This is because the value specified controls the proportion and does not set it to a fixed width.</p> <p>Note: To be able to display 56 characters in the file name field (STATUSBARPATHPREFERREDWIDTH=56), the client applet width must be greater than 800 pixels when all the default fields are displayed in the status bar.</p>	12
SHOW_POINTOPOINT_PAGE = <0 1>	<p>Set to 1 to hide the Point to Point distance tab.</p> <p>Set to 0 to display the Point to Point distance tab.</p> <p>Note: When snapping to an edge with the Point to Point distance tab enabled, the distance is measured from the exact point you click on the drawing (rather than the midpoint).</p>	1
ZOOMBOXENABLED=<0 1>	<p>When a file is opened, this parameter sets the default mode of the mouse pointer to a zoom box.</p> <p>Note: This parameter only works with non-3D designs.</p> <p>Set to 1 to set the default mode of the mouse pointer to a zoom box.</p> <p>Set to 0 to disable option.</p>	1

Disable Options

Configure the Disable options parameters.

[Disable]

Parameter	Description	Default
MARKUPFORCETOBLACK = <0 1>	<p>Specifies whether to force markup color to black for high resolution printing.</p> <p>Set to 1 to not force markup color to black (even when base file printing is forced to black).</p> <p>Set to 0 to use the same logic as for the base file color.</p>	0

Overlay Options

Configure Overlay options that apply to laying files over the current active document.

[Options]

Parameter	Description	Default
CONVERTWMFT OEMF = <0 1 2>	<p>Specifies if the WMF should be converted to EMF. This is option is useful when troubleshooting display issues with WMF.</p> <p>Set to 0 to disable WMF to EMF conversion.</p> <p>Set to 1 to convert WMF overlays to EMF. Set this value if enhanced functionality such as rotate and mirroring is required.</p> <p>Set to 2 use default behavior of the format handler.</p>	2

Print Options

Set the parameters that define various aspects of how your documents print, including pen and pixel thickness, printing notes and orientation.

[Options]

Parameter	Description	Default
PRINTINGDPI = [DPI]	Specifies the DPI for java printing. This value affects the size of the image that is sent to the printer graphics.	144
PRINTWITHBICUBICINTERPOLATION = <0 1>	Specifies whether to enable bi-cubic interpolation rendering of the image during printing. Set to 1 to enable bi-cubic interpolation rendering. Print quality is improved but performance might be reduced. Set to 0 to disable bi-cubic interpolation rendering.	1

Markup Options

Configure a variety of Markup options such as symbol for markup dimensions.

[Markup Options]

TRUEBACKGROUND=<0 1>	Used when a highlight markup is applied on a colored background (for example, graphic/filled cell areas in office document tables). Set to 1 for a dithered highlight markup. Set to 0 for a normal highlight markup.	0
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[Options]

Parameter	Description	Default
ALLOWSTAMPLIBRARYEDIT = [0 1]	Specifies whether you can edit/delete a stamp library. Set to 1 to enable editing/deleting of a stamp library. Set to 0 to disable editing/deleting of a stamp library.	0

Text Options

Configure options for text files.

[Options]

Parameter	Description	Default
MAXPLAINTEXTPAGES = <i>num</i>	Sets the maximum number of plain pages to be loaded to help improve performance. The option only affects unformatted text; other types of documents (Word, RTF, and so on) are not affected. Note: Setting the option value to 0 or less results in the entire file loading.	1000

Acrobat PDF Options

Configure options for Adobe PDF files.

[Options]

Parameter	Description	Default
PDFENHANCELINES	If set to 1 , this option results in enhanced line display similar to the Adobe Acrobat option Enhance Thick Lines. This option is useful for cases when lines start to disappear in the AutoVue display when zooming out. If set to 0 , this option is disabled and the line display is not enhanced.	0
PDFMAXIMAGESIZE = <val>	Allows users to set the maximum image size limit (in Mbytes) of large bitmaps in PDF files after which the PDF decoder starts reducing resolution to reduce memory use.	150

AutoCAD Options

Configure options for AutoCAD drawings.

[Options]

Parameter	Description	Default
ACADDEFAULTSHAPEFONT	Specifies the default shape font filename that should be used if the desired shape font file and an equivalent AutoVue font cannot be found. You can specify a full file path or just the file name. The decoder searches for the font file name in the file path (if provided), the base file folder, XFONTPATHS, and the fonts directory of the installation.	
SHOWNONRECTVIEWPORTS = <0 1>	In AutoCAD it is possible to create non-rectangular viewports. When a file has non-rectangular viewports, it may take AutoVue longer to display the drawing. Set to 1 to display non-rectangular viewports. Set to 0 to disable display of non-rectangular viewports and improve performance. Note that the accuracy of the display will be compromised. Note: This options applies to AutoCAD 2000 and up files.	1
ACAD_MAXNUMLINETYPECYCLES	Specifies the maximum number of times a line type pattern can be repeated for a particular entity segment. Any entity segment that has more cycles than 1000 is drawn with a solid line type. Syntax: [Options] ACAD_MAXNUMLINETYPECYCLES = [0-1000]	256

Cadence Options

Configure options for Cadence Concept HDL file.

[ECAD]

Parameter	Description	Default
CADENCE_CALLOUTS FILE = <file path>	Specifies the full path to a callouts file. The callouts file is used to create abstract mechanical part entities for the design	

CATIA Options

Configure options for CATIA 4 and 5 files.

[Options]

Parameter	Description	Default
CATALOADPMI = <0 1>	Set to 1 to enable displaying of PMIs. Set to 0 to disable displaying of PMIs.	1

CSI Shapefile Project Files

CSI shapefile project files (CSHP files) are used to overlay multiple ESRI shapefile drawings. Project files specify the shapefiles that should be overlayed and general information such as units and point options. Project files are formatted as standard INI configuration settings files. Comments in CSHP files begin with a semi-colon(;).

Note: A CSI shapefile project file must begin with the following line: **;CSI shapefile project file**

[PROJECTPROPERTIES]

Parameter	Description	Default
UNITS=<value>	Specifies the file units. Possible values: <ul style="list-style-type: none">• px• inches• millimeters• mm• twips• centimeters• cm• decimeters• dm• meters• m• kilometers• km• feet• yards• miles• millimeters• micromiles• microns• microinches	

POINTTYPE=<value>	Specifies what shape to use when drawing a point. Possible values: <ul style="list-style-type: none"> • Circle • Triangle • Square • Star • Dot • Plus • Cross • Diamond 	Circle
POINTSIZ= <i>int</i>	Specifies what size in pixels to use when drawing a point. You can assign <i>int</i> any integer greater than 0.	7

[LAYERS]

Parameter	Description	Default
OUTLINECOLOR= <i>int</i>	Specifies the color to use when drawing outlines for graphics such as points, lines, polygons, and so on. Possible integer range: [-1, 255] Set to OUTLINECOLOR=-1 so that an internal counter is used to determine the color. The counter is incremented a maximum of two times per layer and only if it is required: once for the outline color (if it is not provided) and once for the fill color (if it is not provided). Example: If a user provides valid outline and fill colors, the counter is not incremented for the given layer. However, if the user only provides a valid outline color, the counter increments once for the given layer.	-1
FILLCOLOR= <i>int</i>	Specifies the color to use when the drawing fills for graphic (such as polygons). Possible integer range = [-1, 255] Set to FILLCOLOR=-1 so that an internal counter is used to determine the color. The counter is incremented a maximum of two times per layer and only if it is required: once for the outline color (if it is not provided) and once for the fill color (if it is not provided). Example: If a user provides valid outline and fill colors, the counter is not incremented for the given layer. However, if the user only provides a valid outline color, the counter increments once for the given layer.	-1
LINEWIDTH= <i>int</i>	Specifies the line width to used when drawing graphics. Possible integer range: [0,100]	0
VISIBLE=<0 1>	Specifies the visibility of the shapefile. Set to 1 to make the shapefile visible when initially loading the CSI shapefile project. Set to 0 to make the shapefile invisible when initially loading the CSI shapefile project.	1

POINTTYPE=<value>	Specifies what shape to use when drawing a point.	Circle
<p>Note: If a POINTTYPE is not provided for a given [LAYER] section, then the POINTTYPE provided in [PROJECTPROPERTIES] section is used.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Circle • Triangle • Square • Star • Dot • Plus • Cross • Diamond 		
POINTSIZ=um	Specifies size in pixels to use when drawing a point.	7
<p>Note: If a POINTSIZE is not provided for a given [LAYER] section, then the POINTSIZE provided in [PROJECTPROPERTIES] section is used.</p> <p>You can assign <i>num</i> any integer greater than 0.</p>		
FILENAME= <i>file path</i>	Specifies the name of the ESRI shapefile drawing.	

ECAD Options

Specify configuration options for ECAD.

[ECAD]

ECAD_3D_CUTOUTDRILLHOLE S = <0 1>	Specifies whether to cut drill holes out of the 3D model of the board. Set to 1 to cut out drill holes. Set to 0 to disable drill holes. Note: Setting this option to 1 increases the amount of memory required to load the 3D model. Also, for DMU purposes, this option should be set to 1 to correctly check for interference for parts that go through the drill holes.	0
ECAD_SHOW_NATIVE_HIGHLIGHTS = <0 1>	Specifies whether AutoVue should display a file's native highlighting. Set to 0 so that the native highlighting in the file is ignored during display. Set to 1 so that the native highlighting in the file is applied during display.	1

Excel Options

Configure options for Excel files.

[Options]

USESMALLFONTSFORXCELS MALLTEXT = <0 1>	Set to 1 so that the Excel Small Fonts font is used to display text at small fonts sizes of 7 points or less (matching Excel behavior). Set to 0 so that the Small Fonts font is not used. Note: This parameter has effect only if the Small Fonts font is installed on the system (it usually comes with Excel).	0
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Gerber Options

Configure options for Gerber files.

[Gerber Format]

ENDOFCOMMAND = <ASTERISK DOLLAR ENDOFFLINE AUTODETECT>	Specifies the end of command character if known. If end of command character is not known, ENDOFCOMMAND can be set to AUTODETECT mode. Available values: ASTERISK: End of command is * DOLLAR: End of command is \$ ENDOFFLINE: End of command is the end of the line. AUTODETECT: AutoVue automatically detects the end of command character.	AUTODETECT
MULTIQUADRANT_ARCS_BY_ DEFAULT = <0 1>	Specifies whether the default circular interpolation is multi-quadrant or single-quadrant. Set to 0 so that the circular interpolation is single-quadrant. Set to 1 so that the circular interpolation is multi-quadrant.	0

DirectModel (JT) Options

Configure options for JT files.

[Options]

Parameter	Description	Default
JTRESOLUTION = <HI MED LO>	When available, enables users to load the model's high, medium, and low resolution meshes. Note: It is recommended to reduce the model's resolution mesh to LO if loading large complex assemblies degrades performance or utilizes significantly high memory resources.	HI

MicroStation Options

Configure options for MicroStation files.

[Options]

DGNDISABLEZCLIP = <0 1>	Specifies whether to take the z-axis into consideration when applying a clip region (a cut-out region) to a 2D drawing. Set to 1 if the contents of the clipped image should not be restricted based on the z-coordinate of individual objects. Set to 0 if the contents of the clipped image should be restricted based on the z-coordinate of individual objects. Note: This option only applies to 2D drawings; it is not considered when loading a 3D model. Note: Option applies to Microstation 7 files.	0
DGNSHOWZEROLENGTHLINES = <0 1>	Set to 1 to display zero-length lines as fixed-sized filled squares. Set to 0 to ignore zero-length lines. Note: Option applies to Microstation 7 files.	0

DGNLSTYLEDASHDOT =
<description>,<number of
patterns>,<pattern1>,<pattern2
>,...,<pattern6>

Defines up to seven line styles (indexed from 1 to 7). Each line style, separated by a comma, can include up to six patterns. Each line style must be preceded by a description and a number specifying the number of patterns for the style.

Example:

DGNSTYLEDASHDOT = style1,5,-1,1,0,-1,2,style2,3,2,-2,-2

In this example, two line styles (index 1 and index 2) are defined. the line styles provided by this parameter replaces the default seven standard styles. A line that uses style index that has not been provided is displayed as a solid line (for example, a line with style3 when only two styles have been defined).

SolidWorks Options

Configure the option for SolidWorks files.

[Options]

Parameter	Description	Default
SWSHOWVIEWPORTBORDER	Set to 1 to view the border (bounding box) of 2D views in a SolidWorks drawing. Set to 0 so that no border is drawn.	0

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