Release Notes: Oracle AutoVue 20.1, Desktop Deployment

For the most up-to-date version of this document, go to the AutoVue Documentation Web site on the Oracle Technology Network at http://www.oracle.com/technetwork/documentation/autovue-091442.html.

Application User License

- AutoVue includes an AutoVue Desktop Version, a Desktop Deployment, and a Client/Server Deployment. For Application User licensing metric (in the Component licensing model) or Custom Suite User licensing metric (in the Custom Applications Suite licensing model), a single license cannot be split or shared between two users (e.g., one user using the AutoVue Desktop Version and a different user using the Desktop Deployment would require two licenses).

Installing AutoVue

Important: If you are migrating from AutoVue Desktop Version to AutoVue Desktop Deployment, a *Migration Guide* is available to assist you with the migration. Contact Oracle AutoVue Customer Support for more information.

- The installer for Oracle AutoVue Desktop Deployment has been renamed to *InstallDesktopDeployment.exe*.
- The Oracle AutoVue Desktop Deployment 20.1 installer supports the ability to upgrade from version 20.0. If you have Oracle AutoVue 20.0 installed previously, the installer upgrades the previous configuration settings from VueCore.ini, allusers.ini and autovue.properties when you install version 20.1.
- Configuration options in VueCore.ini have been moved to autovue.properties.
- By default, AutoVue now installs into the *C:\Oracle\AutoVue Desktop Deployment* directory. If you are installing on UAC enabled systems, ensure that you install at a location to which the user running AutoVue has write permissions.
- For complete installation instructions, refer to the *Oracle AutoVue Installation and Configuration Guide*.

System Requirements

- Windows XP, 32-bit
- Windows Vista, 32-bit and 64-bit (AutoVue running in 32-bit mode)
- Windows 7, 32-bit and 64-bit (AutoVue running in 32-bit mode)
- The installation requires about 400MB of free space

New Features

General Enhancements

- The shortcut for starting AutoVue has been renamed to *Start AutoVue Desktop Deployment*.
- Startup for AutoVue Desktop Deployment is now via an executable (previously used to be a batch file). Version 20 command line options should now be specified as parameters in the "autovue.cmdline" property in file autovue.properties.
- Added ability to open a file at startup by specifying the <filename> as a command line option.
- Added System Tray capability to Desktop Deployment.

- Changed the default output location for all log files to <AutoVue Installation Directory>/bin/logs
- AutoVue Desktop Deployment includes an ActiveX wrapper that provides a migration path for current users of AutoVue Desktop Version's ActiveX solution. Refer to the documentation located at <AutoVue Installation Folder>\Examples\VBExample for more information on the ActiveX wrapper.

Hotspots

AutoVue 20.1 supports hotspotting capability. Integrators and developers can integrate AutoVue tightly into other applications so that clicking on sections of text in a document can trigger actions or show information in the other applications. Hotspotting capability is currently supported for text in 2D documents.

Refer to the *Hotspots API* document located at *<AutoVue Installation Directory>/docs* folder for more information regarding the Hotspots API.

Markups

- By default, AutoVue Desktop Deployment saves markups in the *avred* directory at the base file location. If the user does not have permission to write into the base file location, they can export the markups into an alternate directory.
- You can save Markup files into a single directory by specifying the full path where the Markup files are to be saved in the autovue.markups.local.directory parameter.
- AutoVue no longer relies on the markups.map file to map the base file and it's associated Markup files. Markup files are now located based on the name of the original document. When saving markups, AutoVue only prompts for the extension of the Markup file. So, Markup files are saved as
<base file name>.<end-user specified extension>.

   Note: If you have multiple files with the same name and different extensions, markups can over-write each other if saved to the same folder.

- If you upgrade from version 20.0 and you have markups saved in the <AutoVue Install Root>\bin\markups directory, AutoVue 20.1 can read these markups. However, when you modify and save these markups, they are moved to either the avred directory or to the location specified by the autovue.markups.local.directory parameter.
- Disabled markups for Microsoft Office formats by default.
Office formats render differently on different machines, if the fonts available 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 files have the same set of fonts installed.
To enable, set INI option **EnableOfficeMarkups** to 1.
- Added INI option DEF_TEXTBOXVISIBLE to control text box outline visibility. See section **"Markup INI Options"** for more information regarding this option.
- Added INI option DEF_LEADERALIGN to specify leader alignment. See section **"Markup INI Options"** for more information regarding this option.

Printing Enhancements

- The default printing in 20.1 is Java Printing. Java Printing is the recommended mode of printing in 20.1. The Java Printing checkbox has been removed from the Print dialog.
- Added support for printing Markup notes.
- Added option to skip blank pages when printing.
- Improved performance for printing documents containing transparent images.
- Improved performance for printing diagonal watermarks.
- Added support for Excel native print settings. A new option **Native settings (from file)** is available in the Print dialog. When selected, AutoVue uses Excel's print settings that are saved in the document. This option only

applies to Excel documents.

The following Excel print settings are supported:

- Page orientation
- Scaling
- Paper size
- Print areas
- Page breaks
- Row and column headers
- Grid lines
- Left/top/bottom/right margins

Note: For a list of unsupported excel print settings, refer to **"Known Issues"**.

- Added TILELIMIT INI option to control AutoVue print behavior when a single page generates a print output that spans multiple pages. Refer to **"Print Options"** for more information.
- Added NativeJavaPrinting INI option to control the usage of native Java graphics. Refer to **"Print Options"** for more information.

EDA Functionality Enhancements

- Added ability to measure minimum distance between entities across layers for EDA files.
- Added support for Enhanced Display Modes (EDM) for EDA formats. AutoVue allows users to dynamically control the display of plated and non-plated holes (visibility and color), pad filling and line caps & joins without re-saving and re-loading files. These can be configured via the Options dialog.

  For known issues with the Enhanced Display Mode support, refer to **"Known Issues"**.

- Added ability to modify global transparency for EDA Files. Note that enabling transparency will have an effect on file rendering performance.
- Improved support for Bill of Material (BOM)—AutoVue now provides the ability to select the Board Side attribute. This attribute identifies if a component appears on the top or the bottom side of the PCB board.
- Added ability to modify layer polarity from the layers dialog for Gerber Layer files.

MCAD Formats

- Added support for Autodesk Inventor 2011
- Added support for SolidWorks 2011
- Added support for JT version 9.1
- Added support for CATIA V5 R20
- Added support for SolidDesigner/CoCreate Modeling versions 16.00C, 16.00D, 16.00E, 16.50, 16.50A,16.50B, and 17.00
- Added support for IGES 3D
- Added support for shaded views in 2D Inventor files
- Added support for SolidEdge assembly features
- Improved support for colors and transparency for SolidEdge parts and assemblies
- General bug fixes:
  - CATIA V5
  - Inventor
  - IGES
  - JT
  - Pro/ENGINEER
  - SolidEdge
  - SolidDesigner
  - SolidWorks

AEC Formats

- Added support for AutoCAD 2011 and AutoCAD Mechanical 2011
- Added support for CoCreate Drafting versions 16.00A, 16.00B, 16.00C, 16.00D, 16.00E, 16.50, 16.50A,16.50B, and 17.00
- Added support for JPEG compression scheme 7 for TIFF files
- Added support for transparency in JPEG2000 files
- General bug fixes:
  - AutoCAD
  - CGM
  - HPGL
  - TIFF
  - MicroStation
  - Cocreate Drafting
  - Visio
  - JPEG

EDA Formats

- Added support for Zuken CADSTAR 12.0 (PCB/Schematics)
- Added support for Mentor Board Station and Design Architect versions 8.11, 8.12 and 8.13
- Added support for ODB++ version 7.0
- Added support for Orcad Capture 16.3
- Enhanced Cadence project support:
  - Added support for Cadence non-archived projects
  - Added support for Variant views in Cadence projects
  - Added ability to specify site level custom variables for Cadence projects via a cadence.config file
- Added support for the Allegro Module Definition Database files (*.mdd)
- Added support for Cadence Schematic Symbol files (*.css)
- Enhanced support for Gerber Layer File:
  - Added option to specify offset and polarity for layers in a Gerber Layer file
  - Added support for RGB color values and units per Gerber file
- Added support for arc snapping in IPF and IFF files
- General bug fixes for all supported EDA formats

Office Formats

- Enhanced Web services-based text extraction to support Office formats.
- General enhancements for Excel files:
  - Added support for shape transparency
  - Improved support for round-off error
  - Added support for saved print settings
  - Added boolean cell support
  - Improved support for Hyperlinks
- General bug fixes:
  - Word
  - Excel
  - Adobe PDF

Documentation

The *Installation and System Administration Manual* has been divided into the following manuals:

- *Oracle AutoVue Installation and Configuration Guide*
  This document provides information on AutoVue installation and configuration.
- *Oracle AutoVue Viewing Configuration Guide*
  This document contains user-specific INI options.

The following documents have been updated in 20.1:

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

Consolidation of Options in autovue.properties and VueCore.ini

The following options from `VueCore.ini` are now set in `autovue.properties` file located in the <AutoVue Installation folder>\bin directory:

New Options in autovue.properties	Old Options in VueCore.ini		Description
	Section	Parameter	
autovue.users.allusersini	[Users]	AllUsersIni	Name of the allusers INI file.
autovue.users.defaultini	[Users]	DefaultIni	Name of the default INI file.
autovue.users.directory	[Users]	Directory	Contains the directory in which user information is stored (users' initialization files, users' GUI files).
autovue.cache.directory	[Cache]	Directory	Specifies in which directory the cached files should be saved.
autovue.cache.size	[Cache]	Size	Specifies, in Megabytes, the maximum size of the directory containing the cached/streaming files.
autovue.cache.maxnumfiles	[Cache]	MaxNumFiles	Specifies the maximum number of files allowed in the AutoVue cache directory.
autovue.cache.maxlifetime	[Cache]	MaxLifetime	Specifies the maximum number of days a file is kept in the AutoVue cache directory.
autovue.cache.forceascii	[Cache]	ForceAscii	Forces using ASCII characters in cached files names.
autovue.markups.symbols.directory	[Cache]	SymbolDir	Specifies in which directory the Markups symbol libraries are stored.
autovue.markups.local.directory	[Markups]	Directory	Specifies in which directory the Markups files should be saved.
autovue.markups.permissions	[Markups]	Permissions	Specifies whether all users can see the markups.
autovue.help.file.en	[HELP]	File_en	Entry specifies the URL to the English Help file.
autovue.help.file.fr	[HELP]	File_fr	Entry specifies the URL to the French Help file.

New Options in autovue.properties	Old Options in VueCore.ini		Description
	Section	Parameter	
autovue.help.file.de	[HELP]	File_de	Entry specifies the URL to the German Help file.
autovue.help.file.ja	[HELP]	File_ja	Entry specifies the URL to the Japanese Help file.

Desupported Features/Options

- INI options DOCVIEW and DOCVIEWSHOWHEADERS have been desupported in release 20.1. Support for Excel's native print settings has been implemented in 20.1 and these options are no longer required.

INI Options Updated in AutoVue 20.1

- Extended the usage of the CODEPAGE option to be used in AutoCAD DXF files
- Changed the default for EnableOfficeMarkups to 0. Option is set in default.ini.

Refer to the *Oracle AutoVue Viewing Configuration Guide* for information regarding these options.

New autovue.properties options

Parameter	Description	Default
autovue.markups.local.directory=*file path*	Specify in which directory Markups files should be saved. Markup files are saved as *<base file name>.<end-user specified extension>*. By default, AutoVue Desktop Deployment saves markups in the avred directory at the base file location. If the user does not have permission to write into the base file location, they can export the markup into an alternate directory.	<Base file location>\avred
autovue.splash=*full path of PNG/JPEG*	Specify the splash screen to display while AutoVue starts up. If the full path of the PNG or JPEG is not specified, the splash screen does not display.	

New INI File Settings

All INI options below should be set in user INI files.

Allegro Options

Configure options for Allegro files.

[ECAD]

Parameter	Description	Default
ALLEGRO_ENABLEENHANCEDDISPLAYMODES = [0|1]	Specify whether or not to enable enhanced display modes. Set to **1** to enable enhanced display. Set to **0** to disable them.	1

AutoCAD Options

Configure options for AutoCAD files.

[Options]

Parameter	Description	Default
DISABLE3DMODEL = [0|1]	Specifies whether or not the 3D page of AutoCAD files should be loaded. Set to **0** to include the 3D model in the design. Set to **1** to disable the 3D model. As a result, it is not included in the design and streaming file size is reduced. **Note:** The option is only applicable to AutoCAD version 2000 files and above.	0

ECAD Options

Configure options for ECAD files.

[ECAD]

Parameter	Description	Default
ECAD_DISABLE_VARIANTS = [0|1]	Specifies whether to enable or disable variant views. This option can be used to improve performance if the project contains multiple variant views. Set to **1** to disable variant views. Set to **0** to enable variant views. **Note:** This option currently only supports Cadence/Allegro projects.	0

IGES Options

Configure options for IGES files.

[Options]

Parameter	Description	Default
IGESLOADDRAFTFIRST =[0|1]	Specify whether to display a 2D projection of the 3D model before the full 3D model has finished loading. 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. Set to **0** to display the 3D model page first.	0
IGESLOADSUBFIGUREDEFINITIONS=[0|1]	Specify whether to display subfigure definition entities when subfigure instances are not found. Subfigure definition entities are used to store a group of entities that occur repeatedly in a file (subfigure instances). Set to **0** so that subfigure definition entities are not found Set to **1** to display subfigure definitions when subfigure instances are not found. **Note:** Option is for IGES 3D files.	0

Disable Options

Configure the Disable options parameters.

[Disable]

Parameter	Description	Default
SYSTEMTRAY=[0|1]	Specify whether to display the system tray icon. Set to **0** to display the system tray icon. Alternately, you can also leave this option empty to display the icon. Set to **1** to disable the system tray icon.	0

Overlay Options

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

[Overlay Options]

Parameter	Description	Default
MATCHEXTENTS = [0|1]	Specifies how to scale the overlay. Set to **0** so that the overlay is scaled based on the current file extent (turns off MATCHEXTENTS). Set to **1** so that the overlay is scaled based on file units (turns on MAT-CHEXTENTS).	1

Memory Options

Configure memory options.

[DisplayMemory]

Parameter	Description	Default
STACKS=*<number of zoom levels>*	Specifies number of zoom levels to cache. The minimum value is 0. When set to 0, none of the previous zoom levels are cached.	5
TILES=*<number of tiles>*	Specifies the number of tiles to cache for a given zoom level. Setting TILES to a smaller number reduces memory usage for the interactive options such as zoom, scroll and pan. The minimum value is 2.	9

Print Options

Configure print options.

[PrintOptions]

Parameter	Description	Default
NATIVEJAVAPRINTING=[0|1]	Specifies whether to use native Java graphics when printing on Windows OSes. Set to **0** to use AutoVue's customized printing. This provides better performance and uses windows API calls instead of native Java calls. Set to **1** to use native Java printing.	0
UIEnablePrintTypeSelection = [0|1]	Set to **0** to disable display of the Java Printing checkbox in the Print dialog. Set to **1** to enable display of the Java Printing checkbox in the Print dialog. When enabled, users can control whether they want to use Java Printing or Server Side Printing. By default, AutoVue 20.1 uses Java Printing.	0
TILELIMIT=*int*	Define the limit of the number of pages to print if a page of the document generates a print output that spans multiple pages. A **negative integer** (for example, *-32*), sets a "soft" limit to the number of pages to print. That is, if a single page generates more pages than the absolute value of the integer (for example, *32*), then the user is prompted to choose whether to print upto the limit or print to fit onto one page. A **positive integer** (for example, *32*), sets a "hard" limit to the number of pages to print. That is, if a single page generates more pages than the value specified, AutoVue ignores the print settings and prints the document to fit onto one page.	-32

[OPTIONS]

Parameter	Description	Default
SUPPORTLANDSCAPEPRINTING=[AUTO | OFF | *printer1 name*; *printer2 name;...]*	Specifies whether the page layout of a landscape page should be landscape in the print output. **AUTO:** When printing to a file printer, page layout for a landscape output is forced to landscape. **OFF:** Does not force the layout for landscape outputs. *printer name*: Forces layouts for landscape pages to be landscape for specified printer drivers. You can specify multiple printers in a semi-colon (;) separated list. **Note:** If the specified printers do not support landscape printing, the output may be unusable. As a result, only add printers that support landscape printing.	AUTO

Markup INI Options

[Markup Options]

Parameter	Description	Default
DEF_TEXTBOXVISIBLE=[1| 0]	Set the option to 0 or 1 to turn the visibility of markup text box OFF or ON.	1

Parameter	Description	Default
DEF_LEADERALIGN=*value from 0 to 8*	Set one of following options to specify leader alignment: 0 - Top Left 1 - Top Center 2 - Top Right 3 - Center Left 4 - Center Center 5 - Center Right 6 - Bottom Left 7 - Bottom Center 8 - Bottom Right	7

Known Issues

- Excel Print Settings
  - Excel calculates row and column widths based on the default font set in the file. On different printers, these calculations can differ. As a result, Excel prints differently on different machines. AutoVue attempts to match Excel behavior, but may still differ slightly from Excel in terms of page breaks, line breaks, column widths or row heights. See http://support.microsoft.com/kb/214394/en-us and http://support.microsoft.com/kb/214278 for more information.
  - When Excel's print settings use a paper size that is not supported by the printer that is installed on the AutoVue server, AutoVue defaults to Letter size.
  - Excel has an option called **Scale content for A4 or 8.5x11 paper sizes**. When enabled, Excel chooses to print to A4 even if you specify Letter or vice versa. Excel also automatically scales the drawing to the paper size it chooses. AutoVue, however, always prints to the setting saved in the Excel document and ignores this **Scale content for A4 or 8.5x11 paper sizes** option. See http://support.microsoft.com/kb/284867 for additional information for this option.
  - The following Excel print settings are not supported in AutoVue:
    - Header and Footer margins
    - Center on Page
    - Header and Footer options other than content and position
    - Print titles (repeat row and columns on each page)
    - Black and White setting
    - Draft quality
    - Comments
    - Cell errors
    - Page Order (Down, then Over); AutoVue prints "Over, then Down" in all cases
    - Object Printing

- When **Native Settings (from file)** option is selected in the Print dialog to enable Excel print settings, some of AutoVue printing abilities are not available. These are:
  - Headers and Footers
  - Scaling settings (Fit to Page, Scale and Factor)
  - Orientation Settings
  - Margin Settings
  - Alignment/Offset settings
  - Page Area settings
  - Print Row and Column headers
  - Paper size selection
- Enhanced Display Modes
  - Enhanced Display Modes are not supported when you convert a file to another format from AutoVue or when you disable Java printing.
  - Enhanced Display Modes are not supported when files are rendered in TILED mode.

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 Cocreate 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 17
- 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 Smartsketch version 2009
- Added support for Cocreate 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 Cocreate drafting
- Added new INI option ACADDEFAULTSHAPEFONT to allow users to specify default shape font for AutoCAD drawings
  See "New INI File Settings" on page 17
- 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
  - Cocreate 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 another markup entity.

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=*font1;font2;...;fontn*	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.	

STATUSBARPATHPREFERREDW IDTH = <numeric value>	Specifies the character width of the file name field in the status bar. 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. **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.	12
SHOW_POINTOPOINT_PAGE = <0|1>	Set to **1** to hide the Point to Point distance tab. Set to **0** to display the Point to Point distance tab. **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 then the midpoint).	1
ZOOMBOXENABLED=<0|1>	When a file is opened, this parameter sets the default mode of the mouse pointer to a zoom box. **Note:** This parameter only works with non-3D designs. Set to **1** to set the default mode of the mouse pointer to a zoom box. Set to **0** to disable option.	1

Parameter	Description	Default
MARKUPFORCETOBLACK = <0|1>	Specifies whether to force markup color to black for high resolution printing. Set to **1** to not force markup color to black (even when base file printing is forced to black). Set to **0** to use the same logic as for the base file color.	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>	Specifies if the WMF should be converted to EMF. This is option is useful when troubleshooting display issues with WMF. Set to **0** to disable WMF to EMF conversion. Set to **1** to convert WMF overlays to EMF. Set this value if enhanced functionality such as rotate and mirroring is required. Set to **2** use default behavior of the format handler.	2

[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
PRINTWITHBICUBICIN TERPOLATION = <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

[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
MAXPLAINTEXTP AGES = *num*	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

Parameter	Description	Default
PDFMAXIMAGESIZEMB = <val>	Allows users to set the maximum image sizelimit (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 Candence 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
CATIALOADPMI = <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: • 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: • Circle • Triangle • Square • Star • Dot • Plus • Cross • Diamond	Circle
POINTSIZE=*int*	Specifies what size in pixels to use when drawing a point. You can assign *int* any integer greater than 0.	7

[LAYERS]

Parameter	Description	Default

OUTLINECOLOR=*int*	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=*int*	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=*int*	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. **Note:** If a POINTTYPE is not provided for a given [LAYER] section, then the POINTTYPE provided in [PROJECTPROPERTIES] section is used. Possible values: • Circle • Triangle • Square • Star • Dot • Plus • Cross • Diamond	Circle
POINTSIZE=num	Specifies size in pixels to use when drawing a point. **Note:** If a POINTSIZE is not provided for a given [LAYER] section, then the POINTSIZE provided in [PROJECTPROPERTIES] section is used. You can assign *num* any integer greater than 0.	7
FILENAME= *file path*	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_HIGHLI GHTS = <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]

USESMALLFONTSFOREXCELS 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

Gerber Options

Configure options for Gerber files.

[Gerber Format]

ENDOFCOMMAND = <ASTERISK | DOLLAR | ENDOFLINE | 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 $ **ENDOFLINE**: End of command is the end of the line. **AUTODETECT**: AutoVue automatically detects the end of command character.	AUTODE TECT
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