Release Notes: Desktop Edition

AutoVue 19.2c1: September 30, 2007

Packaging and Licensing

- Introduced separate installers for the following product packages:
  - AutoVue Office
  - AutoVue 2D, AutoVue 2D Professional
  - AutoVue 3D Professional-SME, AutoVue 3D Advanced, AutoVue 3D Professional Advanced
  - AutoVue EDA Professional
  - AutoVue Electro-Mechanical Professional
  - AutoVue DEMO
- Customers are no longer required to enter license keys to install and run the product.
- To install 19.2c1, users are required to first uninstall 19.2.

MCAD Formats

- General bug fixes for Catia 5.

EDA Formats

- Performed maintenance and bug fixes for Allegro files.

General

- Enabled interface for customized resource resolution DLL to give integrators more flexibility on how 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**.
- Added new INI options, **Layers** and **Blocks** to control these two functionalities in ActiveX. See **New INI File Settings**.

New INI File Settings

[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:** **[Options]** 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:** **[Options]** Blocks=<0/1>	0

[Options]

Parameter	Description	Default
ResLocateDll	Set this to the name of the custom resource resolution DLL with which you have defined your own localization callback. **Syntax:** **[Options]** ResLocateDll=ExampleDLL.dll	empty

AutoVue 19.2: July 18 2007

Packaging and Licensing

- Introduced new product packages (AutoVue EDA Professional, AutoVue Electro-Mechanical Professional, 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 7.
  - Added the ProE2DViewDefaultStyle INI option to specify a default style to display 3D projected views. See “New INI File Settings” on page 7.
  - Added the ProE2DTanEdgeDefaultStyle INI option to specify the default line style for tangent edges. See “New INI File Settings” on page 7.
- SolidWorks:
  - Added support for SolidWorks 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.
- 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 7.
- 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, 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 7.
- 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.
- 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 native 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:	1

	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]	
3DMASSPROP_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]** 3DMASSPROP_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 table gridlines. Set to **0** to hide table gridlines. **Note:** Unlike cell borders, gridlines never print. **Syntax:** **[Options]**	0

	DOC_SHOWTABLEGRIDLINES=<0|1>	
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
FullColorPrinterSupport	Enable color printing for some monochrome images. 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. 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. Enabling option **1** could cause a decrease in performance: • The spool size is much larger because there is 8 to 23 times more information sent to the printer. • Not all printers support image transparency and using them with this option may yield incorrect results. **Syntax:** **[Options]** FullColorPrinterSupport=<0|1>	0
GpsOutText	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. Set to **0**: When you run outtext.exe, all Xref instances are reported and the path to the Xrefs is not fully qualified. **Syntax:** **[Options]** GpsOutText=<0|1>	0
IGESLoadDraftFirst	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. **Syntax:** **[Options]** IGESLoadDraftFirst=<0|1>	0

J2KRESOLUTION	Added two new possible values for this option. 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). 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). **Syntax:** **[Options]** J2KRESOLUTION=[DYNAMIC | HIGH | MEDIUM | LOW | *+num* | *-num*]	DYNAMIC
LWDEFAULT	Set the default line weight. 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). **Syntax:** **[Options]** LWDEFAULT=[1-100]	25
MESHBUILDTOPOLOGY	Set to **0** if you do not want to build the topology in mesh mode. Applies to the following file formats: • Catia 5 • Pro/ENGINEER • SolidWorks • Unigraphics • STL **Note:** This option replaces the following INI options: SWBUILDMESHTOPOLOGY, Catia5MeshBuildTopology and BUILDMESHTOPOLOGY. **Syntax:** **[Options]** MESHBUILDTOPOLOGY=<0|1>	1
NOSYMBOLTTF	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. **Syntax:** **[Options]** NOSYMBOLTTF=<0|1>	0

ProE2DTanEdgeDefaultStyle	Specify the default line style for tangent edges if it is not saved in the native file. The styles are: **0** - Solid **1** - Disabled **2** - Control **3** - Phantom **4** - Dimmed **Syntax:** **[Options]** ProE2DTanEdgeDefaultStyle=[0-4]	0
ProE2DViewDefaultStyle	Specify a default style to display 3D projected views: • HIDDEN • WIREFRAME • SHADING • NO HIDDEN **Syntax:** **[Options]** ProE2DViewDefaultStyle =[HIDDEN | WIREFRAME | SHADING | NO HIDDEN]	NO HIDDEN
ProEShowHiddenLineDashed	This option controls the display and printing of hidden lines contained in Pro/ENGINEER drawings. Set to **1** to display and print hidden lines as dashed lines. Set to **0** to display and print hidden lines as solid lines. **Syntax:** **[Options]** ProEShowHiddenLineDashed=<0|1>	0
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). 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_EXPANDCOLLAPSE_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_EXPANDCOLLAPSE_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]

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

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

[UI Colors]

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

Parameter	Description	Default
BKCOLOREDA	Specify background color for EDA files. **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. **Syntax:** **[UI Colors]** BKCOLOREDA	0

[Print Options]
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	

AutoVue 19.1: June 1, 2006

Packaging and Licensing

- All product types are included in a single install (including the Demo).
- The installer will request the license key (Not the serial number).
- The installer will determine which components to install and activate based on the license key.
- Users can upgrade the product type by entering a new license key. This can be done directly from the product GUI:
  - If the components required to support the new product type are already installed, the license key is accepted and the new features and format support are activated.
  - If additional components need to be installed, the user will be asked to re-run the installer in order for the upgrade to take place.

- **License Key**
  - The license key is version specific. It can only be used to install the corresponding version of the product. A new license key will be required to install each subsequent version of the product when it is released.

- **Demo version**
  - A Demo installation has all the features of the AutoVue SolidModel Professional Product. The only difference is a persistent Demo popup, a Demo watermark that appears in the printouts, and a time out period of 30 days.
  - A Demo license key is not required for the first install of the Demo version on a given machine:
    - The installer will auto-generate a Demo license key at install time. This is only permitted once per machine. To continue using AutoVue on the machine after the expiry, users should enter a non-Demo license key.
    - The installed product will run in Demo mode for 30 days.
  - After the 30 days, the Demo will timeout and the product will not start.
    - Users can switch the Demo version to a licensed version of AutoVue by entering a non-Demo license key.

- **Evaluation version**
  - An evaluation version is a fully functional version of the product type specified in the evaluation license key. Unlike the Demo version, there is no Demo popup or printing watermark.
  - Unlike the Demo version, installing the evaluation requires an evaluation license key.
  - An evaluation version will stop working once the timeout period (7 days) specified in the license key is reached.
  - Users can switch the Evaluation version to a licensed version by entering a non-Evaluation license key.
- **Multi-Language support**
  - Installer will install all supported languages and the product language is selected at run-time.
  - Users can switch product language through the GUI (Defaults to current machine locale). For the list of languages supported in the product UI, refer to the **Installation and Administration** Manual.

- **Impact**
  - A license key (not a serial number) is now needed to install and run the product.
  - License key is version specific: Users need to obtain a new license key each time they want to install a subsequent version of the product.
    Note: A license key is not needed to install service packs. The service pack will be installed as long as the corresponding product version is already installed on the machine.
  - Digital Mockup functionality (DMU) was removed from the AutoVue SolidModel version. This functionality is now available only in the AutoVue SolidModel Professional version.
  - Silent Installation ISS file will need to be updated with license key information.
  - Changing the language for the ActiveX UI is now controlled by an INI option. In avx.ini, set TRA_NAME to the name of the translation file. The translation file should be present in the avwin subdirectory of the AutoVue installation directory.
    Example:
    [Options]
    TRA_NAME=de.tra

MCAD Formats

- Added support for CATIA 5 R15 and R16.
- Added support for SolidWorks version 2006.
- Added support for SolidEdge version 18.
- Improved performance and display of SolidWorks Drawing files containing shaded views.
- Improved text display in terms of alignment, color and size for CATIA 4 files.
- Improved double-byte font handling for CATIA 4 drawings. If a font file is missing, this is indicated in the resource information dialog and the text in the drawing may not display properly. The correct project file should be specified in the CATIAPROJECTFILE ini option. Font mapping should be updated in file

CatiaV4.fontmap. The fontmap file is located in the <Install_Directory>\avwin\fonts and contains a mapping of the font name to the corresponding font resouces.

- Enhanced CATIA 5 PMI support:
  - Added support for PMI visibility
  - Added support for PMI Coordinate Dimensions
- Performed maintenance and bug fixes for:
  - Autodesk Inventor
  - CATIA 4
  - CATIA 5
  - Pro/ENGINEER
  - JT
  - SolidWorks
  - IGES
  - VDA-FS

EDA Formats

- Added support for Mentor PADS PowerLogic and PowerPCB 2005 (ASCII and Binary).
- Added support for Sieb Meyer and Excellon NC Drill formats.
- Added support for Allegro version 15.5.
- Added support for Cadence Concept version 15.5.
- Added support for Orcad Capture and Layout version 10.5.
- Added support for Protel DXP/PCB 2004 (ASCII and Binary).
- Enhanced Gerber aperture support:
  - Added support for AutoTrax and Visula aperture files
  - Added support for user-defined aperture files through schemas
- Performed maintenance and bug fixes for the following formats:
  - Mentor PADS PowerLogic and PowerPCB
  - Mentor Design Architect
  - Mentor Expedition
  - Protel PCB and SCH
  - Allegro Layouts
  - Cadence Concept HDL
  - Gerber
  - Protel

AEC Formats

- Added support for AutoCAD 3D.
- Added support for MicroStation V8 3D.
- Added support for ME10 (OneSpace Designer Drafting) versions 13.20A and 13.20B.
- Added support for multiple layouts (paper spaces) for AutoCAD DWG files converted from version 2000 & above to version 14.
- Performed maintenance and bug fixes for the following formats:
  - CGM
  - MicroStation 7 and 8
  - HPGL
  - ME10 (OneSpace Designer Drafting)
  - AutoCAD DWG

- Autodesk DWF

Office-Desktop Formats

- Performed maintenance and bug fixes for the following formats:
  - Microsoft Word
  - Microsoft PowerPoint
  - Microsoft Excel
  - Adobe PDF
  - Postscript

Documentation

- Created a product feature matrix to indicate what features are supported in different product variations. Document is featurelist.pdf located in the docs sub-folder in the AutoVue installation folder.
- In an effort to improve customer service, Cimmetry is pleased to provide a list of some known limitations with AutoVue. This is not a complete list of all existing limitations. Refer to this document in addition to the Release Notes every time you receive a new version or service pack for AutoVue as it is updated with every product release. Document is prdlim.pdf located in the docs sub-directory of the AutoVue server installation.
- Created an ActiveX feature matrix to indicate what features are supported via the ActiveX API. Document is activexfeaturelist.pdf located in the docs\api sub-folder in the AutoVue installation folder.

General

- Fixed issue with multiple instances of avwin.exe starting up for AutoVue Basic and AutoVue Professional.
- Improved markup to PDF conversion.

Known Issues

- If you are upgrading from Desktop Edition version 19 to the Client-Server Edition version 19.1, some markup entities such as sign-off and OLE entities created with Desktop Edition version 19 will not display correctly. To workaround this issue, markups will need to be resaved with Desktop Edition 19.1 and then reloaded in Client-Server Edition 19.1.

New INI File Settings

[Options]

Parameter	Description	Default
JTBuildTopology	Option applies to JT files. Set to **0** to improve performance. **Drawbacks:** Setting to 0 will disable topology building. Surface measurements will not be possible. **Syntax**: **[Options]** JTBuildTopology=[1/0]	1
ACAD_FAST3D	Set to **1** for faster rendering for AutoCAD 3D. **Drawbacks**: No layer support, all extrusions and meshes will be grouped under one node each, in the model tree. Set to **0** to get layer support and expanded model tree **Drawbacks**: Slow rendering for some files **Syntax**: **[Options]** ACAD_FAST3D=[1/0]	1
DGN_FAST3D	Set to **1** for faster rendering for MicroStation 3D. **Drawbacks**: No layer support, all solids and surfaces will be grouped under one node in the model tree. Set to **0** to get layer support and expanded model tree **Drawbacks**: Slow rendering for some files **Syntax**: **[Options]** DGN_FAST3D=[1/0]	1
SWWIRECOLORVISIBLE	SWWIRECOLORVISIBLE is used to set the color to draw SolidWorks 3D wireframe models. If the ini option is not set, the default is 0 (black). **Syntax**: **[Options]** SWWIRECOLORVISIBLE=[Color] where [Color] is an **integer** value representing the RGB color to use.	0

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

Parameter	Description	Default
TOOL_UNIT	Option applies to the Gerber Format. Specify the unit for the tool and aperture file if unit is different from the Gerber file. **-1**=Unspecified file unit. Aperture file will adopt the same unit as the Gerber file. **1=**inches **2=**millimeters **12=**mil	-1

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

Parameter	Description	Default
NCD_UNITS	Option applies to NC-Drill format. Specify units for NC-Drill files. **1**=inches **2**=millimeters	1
NCD_TRAILINGZEROSOMITTED	Option applies to NC-Drill format. **0**=Coordinate data's trailing zero omitted **1**=Coordinate data's leading zero omitted **2**=No zero in coordinate data is omitted **3**=Coordinate data is explicit decimal number	0
NCD_COMMENTSYMBOL	Option applies to NC-Drill format. Specify the comment symbol. **Default**: NCD_COMMENTSYMBOL=;	
NCD_INCREMENTALMODE	Option applies to NC-Drill format. Set to **1** if data is in incremental mode. **0**=absolute mode **1**=incremental mode	0
NCD_NUMDIGITS	Option applies to NC-Drill format. Specify the number of digits. Specify a value between 0 and 6. Changing this value will affect the x,y coordinate.	2

NCD_NUMDECIMALS	Option applies to NC-Drill format. Specify the number of decimals. Specify a value between 0 and 6. Changing this value will affect the x,y coordinate.	2
NCD_APERTURE_FORMAT_FILEPATH	Options apply to NC-Drill format. Complete path for Aperture format file. This file provides information on how to read the tool file.	Empty path
NCD_TOOLFILEPATH	Complete path for Tool file.	Empty path

AutoVue 19: September 26, 2005

3D Functionality

- Added 3D Compare capability
  - Ability to compare two assemblies (assembly names should be identical).
  - Ability to detect geometric changes.
  - Ability to detect attribute changes.
  - Ability to identify parts that have been added, deleted, edited or moved.
  - Ability to compare selected sets of parts.
- Added 3D Explode capability
  - Ability to dynamically explode large assemblies.
  - Ability to explode to desired level of model hierarchy.
  - Ability to save exploded views.
- Added 3D Search capability
  - Search based on entity type.
  - Search based on entity attribute(s).
  - Search based on volume.
  - Search based on spatial location.
- Improved 3D measurement dialog. Dialog is now tabbed and allows easy switching between different measurement modes.
- PMI enhancements
  - Added support for native PMI visibility state.
  - Enhanced PMI filtering by adding more PMI entity types.
- Added ability to select all identical parts in an assembly. Available in the RMB menu when a part is selected.
- Added support for native views for SolidWorks, CATIA 5, Pro/ENGINEER and Unigraphics.
- Usability improvements
  - Added ability to retrieve entity properties by double-clicking an entity in the workspace.
  - Added ability to expand or collapse all in the model tree. Available in the RMB menu of the model tree.
  - Added ability to "Hide Rest" to only display selected entities and hide the rest. Option is available from the RMB menu when parts are selected.

- Added cross-highlighting in 3D BOM - Highlight parts in the workspace when selected in the BOM results.

EDA Functionality

- Added support for generating BOM for all pages of a schematic.
- Added ability to go to the instances of a net on other pages of a multi-page schematic.
- Enhanced cross-probe to be able to cross-probe nets from layout to schematics by selecting trace segments.
- Added "Dim Unselected" highlight type. With this new highlight type, selected entities retain original color and the rest of the board is dimmed.
- Improved EDA measurement dialog. Dialog is now tabbed and allows easy switching between different measurement modes.
- Improved usability of the Verify Design dialog.
- Enhanced entity selection from the workspace by default (can select entities without having to explicitly go into selection mode).
- Merged EDA selection filters and visibility filters into one dialog.
- Added LayerSets to the toolbar. Merged PCB Views into Layer Sets.

2D Functionality

- Added ability to sort layers in the layer dialog.
- Improved 2D measurement dialog. Dialog is now tabbed and allows easy switching between different measurement modes.

Printing Functionality

- Added partial print preview capability.
- Added support for AutoCAD’s print file limits.
- Added support for printing a user-selected region.
- Added ability to limit output to a single page.

Markup Functionality

- Added a library of GD&T symbols to the current symbols list.
- Added units to measurements by default.

Conversion Functionality

- Added ability to convert to PDF. When converted from markup mode, AutoVue markups are "burned" into the PDF as annotations.

MCAD Formats

- Added support for SolidWorks version 2005.
- Added support for Mechanical Desktop version 2006.
- Added support for Autodesk Inventor versions 9 and 10 files.
- Added support for Solid Edge versions 16 and 17 files.
- Added support for CATIA 5 R14.
- Added support for JT version 8.
- Added support for SolidDesigner version 13.00 (OneSpace Designer Modeling 2005).
- Added support for SolidDesigner 2D.

- Added support for Parasolids versions 15, 16 and 17 files.
- Added support for Point Cloud format.
- Added support for KOSDIC STEP 2D format.
- Improved PMI support for CATIA 5, Pro/ENGINEER and Unigraphics.
- Improved performance for Unigraphics 3D.
- Added support for native file properties and faceted bodies for Unigraphics files.
- Added support for native fonts for Pro/ENGINEER 2d drawings.
- Added support for roughness symbols for CATIA 4 drawings.
- Added assembly feature support for Autodesk Inventor assemblies.
- Added support for assembly configurations for SolidEdge assemblies.
- Added support for file units for SolidEdge parts and assemblies.
- Added support for color and units for STEP and SolidDesigner 3D.
- Performed maintenance and bug fixes.

EDA Formats

- Added support for Mentor DxDesigner/ViewDraw files.
- Added support for Zuken CADIF files.
- Added 3D support for Mentor Expedition PCB.
- Added 3D support for Mentor BoardStation Layout.
- Added 3D support for PADS PowerPCB (PADS Layout).
- Added 3D support for OrCAD Layout.
- Added support for P-CAD 2004 PCB and Schematic files, ASCII and Binary.
- Added support for Cadence Allegro — version 15.2 board layouts, drawings, and symbols.
- Added support for Zuken CADSTAR version 7.0 (PCB and schematic) files.
- Added support for Mentor Expedition versions 2004 and 2004 SP1 files.
- Added support for PADS PowerPCB (PADS Layout) Binary, version 5.
- Added support for Protel DDB files.
- Added support for EDA functionality for EDIF files.
- Added support for nets and traces for Gerber files.
- Added support for EDA functionality for ODB++ and ODB++(X) files.
- Added support for schematic hierarchy navigation for Mentor Design Architect (schematic), Cadence Concept HDL, Mentor DxDesigner, OrCAD Capture, PADS PowerLogic, P-CAD schematics, EDIF, Expedition Design Capture and Zuken CADSTAR schematic files.
- Performed maintenance and bug fixes.

AEC Formats

- Added support for 3D Solids and Region entities in AutoCAD 3D files.
- Added support for SmartSolids, SmartSurfaces and 3D features in MicroStation 3D files.
- Added support for AutoCAD 2006 files.
- Added support for CGM ASCII – Clear Text Encoding files.
- Added support for DWF Markups.
- Added support for ME10 (OneSpace Designer Drafting) 2005 (version 13.00) files.
- Added support for ME10 embedded fonts. Added INI option to enable display of multibyte fonts.
- Added support for EDAT for AutoCAD versions 2004, 2005 and 2006 files.
- Performed maintenance and bug fixes.

Desktop Formats

- Added support for Adobe Acrobat version 7.0.
- Added support for Microsoft Project version 2003 (requires an installation of Microsoft Project).
- Added support for comments and hyperlinks in Excel files.
- Added support for postscript level 3.
- Performed maintenance and bug fixes.

Raster Formats

- Added support for anisotropic resolution for TIFF files.
- Performed maintenance and bug fixes.

New INI File Settings

[Options]

CATIAFILTERNONROOT=<0|1>	Set to 0 to display non-root entities. Set to 1 to filter out (not display) non-root entities. Option applies to CATIA 4 3D files. **Default**:1
CATIAFILTERNOSHOWS=<0|1>	Set to 0 to display no-show entities. Set to 1 to filter out no-show entities. Option applies to CATIA 4 3D files. **Default**:1
CATIA5BuildInvisibleCGMBodies=<0|1>	Set to 1 to process and build invisible BREP bodies for CATIA 5 files. **Default**: 0
DGN8XREFUNITS=	Option applies to MicroStation version 8 files with AutoCAD XREFs. Specify the unit to use for AutoCAD XREFs when units information for the XREFs is not stored in the MicroStation drawing. The unit specified should be the same as the unit for the DWG specified in MicroStation. Consult the MicroStation help for a complete list of units. If the unit is not specified or an invalid value is specified, AutoVue reads the units from the AutoCAD XREF and hence, XREFs may not be scaled properly. **Example**: DGN8XREFUNITS=meters
DGNREFCYCLECHECK=<0|1>	This option applies to MicroStation 8 files and corresponds to MicroStation v8.5 environment variable MS_REF_CYCLECHECK. When set to 1, the decoder will check for circular references in reference paths. Circular references will not be displayed, except for the case where a given model references itself. When set to 0, all references will be displayed, as long as nesting depth permits.

	Default: 0
DWFRGBCOLOR=<0|1>	Option applies to DWF files. If 1, use RGB color. If 0, use AIC (AutoVue Indexed Color). Should be set to 0 to be able to use pen settings for printing. **Default**: 1
DWFCOLORTBL	Option is applicable only when DWFRGBCOLOR=0. Specify the path and the name to a color table. Specified color table overrides the palette stored in the DWF file. If no external palette is specified, the default palette stored in the DWF file will be used. There are two default palettes depending on the DWF file version: -Autocad palette for file versions 3.6 and earlier. -A second palette for file versions later than 3.6. Below are some of the common colors and their corresponding pen numbers: 0, 0, 0 /* 0, Black */ 128, 128, 128 /* 248, Gray */ 255, 0, 0 /* 190, Red */ 0, 255, 0 /* 40 Green */ 255, 255, 0 /* 251, Yellow */ 0, 0, 255 /* 15 , Blue */ 255, 0, 255 /* 195 , Violet */ 0, 255, 255 /* 45, Cyan */ 255, 255, 255 /* 225 , White */
IGESLoadSubFigureDefinitions=<0|1>	Set to 1 to display subfigure definitions when subfigure instances are not found. Option is for IGES 3D files. **Default**: 0
LWDISPLAYSCALE=[0-100]	This option controls the display scale of line weights in the modelspace page for AutoCAD files version 14 and above. Set this option to [0-100]. **Default**: 25. • For no line weight scaling, set this option to 25. • For thicker lines, set this option above 25. • For thinner lines, set this option below 25.
ME10MULTIBYTE=<0|1>	The option sets the priority for glyph search in Multibyte/Singlebyte fonts. • Set this option to 0 if the file does not contain any Multibyte fonts (Far Eastern Languages). • Set this option to 1 if the file contains a mixture of Singlebyte or Multibyte fonts. **Default**: 0

ORCAD_CUTOUT_COPPER_POUR=<0|1>	Set to 1 if you wish to display copper pour cutouts for OrCAD Layout files. **Default**: 0
PDFCACHELEVEL=<None|Low|Medium|High>	Specify the level of caching to be used for PDF font glyphs. Low – 2 faces, 3 sizes per face, 200KB maximum memory size Medium - 4 faces, 6 sizes per face, 800KB maximum memory size High – 8 faces, 6 sizes per face, 1.5MB maximum memory size **Default**: Medium
PSWidth= PSHeight=	For Postscript files that do not have a page size, specify the width and height that AutoVue should use to completely display the file. For example, the below settings specify that the page size is 11.0 X 8.5 inches. **[Options]** PSWidth=11.0 PSHeight=8.5
ProELang=	Specify the native font to use for Pro/Engineer 2D drawings. Possible values are: Korean/Japanese/Chinese_cn/Chinese_tw/Hebrew **Example:** ProELang=Chinese_cn
ProEMassPropUseMesh=<0|1>	Set to 1 to compute mass properties (volume, surface area, mass,...) using the mesh model. **Default**: 0, compute mass properties using the BRep model.
ProEPMIDIMTOLDisplay=<0|1>	Set to 1 to display tolerance for dimension entities for Pro/ENGINEER 3D files. **Default**: 0
RASNOFORCETOBLACK=<0|1>	Set to 1 to disable Force to Black for raster overlays and for raster files. Option is applicable only when FORCETOBLACK=1. **Default**: 0
SSHIDESCROLLBARS=<0|1>	Set to 1 to disable Dundas scroll bars for spreadsheet files. Option will work for Excel, Archives and MS Access formats.
STEPDetailedTree=<0|1>	Set to 1 to show detailed tree for STEP files. **Default**: 0

AutoVue 18: June 30, 2004

3D Functionality

- Added Digital MockUp capability.
    - 3D part alignment.
    - Interference checking with support for exporting results to a csv (comma separated values) file.
    - Support for user-defined coordinate systems. Users can now measure and transform with respect to a user-defined coordinate system.
    - Enhanced part transformation:
        - Added manipulators to manipulate parts directly on the screen.
        - Improved part transformation capability: Setting absolute transformation (absolute part positioning) is now possible.
    - Support for more attributes in user-defined views. Users can now save state information such as imported models, part visibility, transformation, color, transparency and sectioning.
    - Added ability to save states, user-defined views, user-coordinate systems in markup files.
    - Enhanced Import capability.
    - Added functionality to generate 3D Bill of Material.
- Added option to fill a section plane and compute a section's area.
- Added support for GD&T for Catia 5, Pro/Engineer and JT.
- Added ability to display and manipulate PMI (Product and Manufacturing Information).
- Added support for displaying the properties of selected entities. This includes the display of EDA component attributes in the 3D view of PCB files and PMI attributes for files containing PMI data.
- Added the ability to configure the center of rotation used for rotating the entire model using the mouse.
- Added new display mode combining shaded and wireframe.
- Added support for viewing native file properties saved in JT files.

EDA Functionality

- Added Verify Design functionality for geometry- and attribute-based checks with support for exporting results to a csv (comma separated values) file.
- Added user-defined layer sets.
- Added support for sorting columns in the Layers dialog box.
- Added support for entity type-based filtering (e.g. one entity type, such as pins, can be turned off in the display).
- Added ability to extract entity information by double-clicking (in entity selection mode).
- Added support for additional net properties, e.g. length and acute angle.
- Improved file compare functionality within EDA framework: added the ability to set offset/scale.
- Added support for cross probing between the 2D and the 3D pages.
- Added a flashing box to emphasize the location of the entity being highlighted.

2D Functionality

- Added snapping support for AEC formats.
- Added support for launching hyperlinks attached to entities for these formats: AutoCAD DWG, MicroStation versions 8 and 7, AutoDesk DWF and Solidworks Drafts.
- Added support for viewing contents of notes attached to entities for Adobe Portable Document Format (PDF).
- Added support for viewing native file properties for the following formats: AutoCAD DWG, MicroStation V8, Autodesk DWF, Adobe Portable Document Format (PDF).

Markup Enhancements

- **Saving settings in the Markup file**
  - Added support for saving all current Markup settings in Markup files: e.g. color and current layer.
  - Added support for saving last view settings in the Markup file: e.g. layer states, part visibility, part color, and transformation.
  - Added support for saving user-defined views in the Markup file.
  - Added user-coordinate systems which can also be saved in the Markup file.
  - Added support for saving user-defined layer sets in the Markup files.
  - Added support for saving reference to all imported files, in the Markup file.
  - Added capability of saving the creation state for each Markup entity and restoring this state when the "Go To" is invoked.

- **2D Dimensions and measurements**
  - Added take-off capability.
  - Added arc dimension entity (radius or diameter).
  - Added angle dimension entity.
  - Added support for adding symbols to dimension text.
  - Added extension lines (supporting the measured line) to 2D measurements.
  - Added support for displaying units for all dimensions.
  - Added snapping support for creating 2D dimensions for AEC files.

- ***Entity enhancements***
  - Added ability to create straight horizontal or vertical lines.
  - Improved cloud entity.
  - Improved positioning of leader text.
  - Added ability to create multiple freestyle segments within a freestyle entity.
  - Added support for rotating markup text when the markup file is rotated.
  - Added approval (SignOff) markup entity.

General

- Added display of version, build information for the different components of the application.
- Improved performance.
- Added ability to support grouping and ungrouping of Markup entities.

- Added off-line DMS support through the new package file.

ActiveX Control

- Added API that exposes new ECAD functionality.
- Added API that exposes new 3D functionality.
- Added Visual C# sample to demonstrate API.

AEC Formats

- Added support for AutoCAD 2005.
- Added support for AutoCAD Sheet Set (DST) 2005.
- Added support for MicroStation 8.5.
- Added support for ME10, version 12.
- Added support for Visio 2003.
- Added support for JPEG 2000.
- Added support for ESRI shape file.
- Added support for digital signature (without verification) for MicroStation version 8.5.
- Added support for Enhanced Compressed Metafile.
- Enhanced support for ME10 – added support for file units, multi-sheets and pen settings.
- Performed maintenance and bug fixes.

EDA Formats

- Added support for Mentor Expedition PCB and Schematic.
- Added support for Cadence Allegro — version 15 board layouts, drawings, and symbols.
- Added support for Cadence Concept HDL, versions 14 and 15.
- Added support for HP IFF, version 3.0.
- Added support for Protel PCB, versions 98, 99, 99SE (ASCII and Binary).
- Added support for Protel Schematic, versions 98, 99, 99SE (ASCII and Binary).
- Added support for Cadence Specctra, versions 14 and 15.
- Added support for PADS PowerPCB, version 4.0 (ASCII).
- Added support for PADS PowerLogic, versions 4.0 (ASCII) and 5.0 (ASCII and Binary).
- Add support Orcad Capture Version 10.
- Add support Orcad Layout Version 10.
- Added bookmark entries to navigate PCB and Schematic pages contained in an archive format for Mentor.
- Added 3D support for Zuken Cadstar PCB.
- Performed maintenance and bug fixes.

MCAD Formats

- Added support for SolidWorks 2004.
- Added support for Unigraphics NX2.
- Added support for Pro/ENGINEER Wildfire 2.0 (2D/3D).
- Added support for AutoDesk Inventor 8 (2D/3D).
- Added support for SolidEdge, version 15.
- Added support for CATIA 5 R12 and R13.
- Added BRep support for CATIA 5 3D.

- Added support for SolidDesigner Version 12.
- Added support for AutoCAD Mechanical 2005.
- Improved support for dimension and text entities for CATIA 5 drawings.
- Added PMI support for JT, CATIA 5, and Pro/ENGINEER.
- Improved performance for Unigraphics, CATIA 4, Pro/ENGINEER and JT.
- Added color support for STL.
- Improved support for STEP and IGES.
- Performed maintenance and bug fixes.

Desktop Formats

- **PDF**
  - Added support for Adobe Portable Document Format (PDF) 6 (version 1.5).
  - Added support for PDF digital signature (without verification).
  - Improved display of unicode characters for PDF files.
  - Added support for PDF through Adobe Graphics Server (AutoVue Client-Server edition only).
  - Added capability to automatically adjust page orientation when printing PDF files.
- **Word**
  - Added support for WordArt.
  - Implemented formatting enhancements: e.g. auto-numbering, column balancing, and font mapping.
  - Added support for Word files through conversion (AutoVue Client-Server edition only).
- **Excel**
  - Added support for rotated text.
  - Added support for WordArt.
  - Added support for number formatting in cells and charts.
  - Improved support for charts.
  - Added support for native print headers.
  - Added support for Central European languages in Excel, Word and PowerPoint.
- Added unicode, multibyte and UTF-8 encoding to text format.
- Added support for 7-zip, Arj, Bzip2, Cab, Debian, Gzip, LHA, RAR, RPM, and Tar archives.
- Performed maintenance and bug fixes.

AutoVue 17.1: June 01, 2003

Format Support

AEC/CAD Formats

- Added support for AutoCAD 2004 files.
- Added support for Autodesk Mechanical Desktop 2004.
- Added support for MicroStation Version 8.1.
- Added support for DWF 6.0 (2004).
- Added support for ME10 version 11.

MCAD Formats

- Updated support for CATIA 5 to R11.
- Added support for CATIA 5 3D product file (.CATProduct).
- Added support for CATIA 5 2D drawing file (.CATDrawing).
- Updated support for Autodesk Inventor version 6 2D drawings.
- Added support for Autodesk Inventor 7 (2D/3D).
- Added support for CATIA 4 2D drafting standards.
- Added support for CATIA 4 assemblies (.asm).
- Added support for Pro/ENGINEER Wildfire parts, assemblies and drawings.
- Added support for Pro/ENGINEER 2D files without display lists.
- Added support for datum curves and planes for Pro/ENGINEER 3D.
- Added support for Solid Edge version 14.
- Added support for User Defined Symbols (UDS) for Unigraphics 2D.

EDA Formats

- Added support for Cadence Allegro version 13 board layouts, drawings and symbols (.brd, .dra, .ssm, .mcm, .psm).
- Added support for Cadence Allegro Extract (.aew) files.
- Added support for Caltech Intermediate Format (CIF) files.
- Added support for GDS II (binary) files.
- Added 3D support for IDF (2.0, 3.0) board layouts.
- Added support for P-CAD 2002 PCB board layout files (binary and ASCII).
- Added support for P-CAD 2002 SCH schematics files (binary and ASCII).
- Added 3D support for Cadence Allegro Layout.
- Added support for PADS PowerPCB version 5.0 (ASCII).
- Added support for Zuken CadStar versions 5.0, 6.0 layouts.
- Added support for Zuken CadStar versions 5.0, 6.0 Schematics

Office Formats

- Added support for Microsoft Office 2003 (i.e. version 11).
- Added support for the following features in Adobe PDF:
    - Multiple master fonts;
    - Password protected files;
    - Document security (regarding copying and printing);

    - Annotations.
- Added support for grouped Escher graphics in Microsoft Office.
- Improved page numbering and auto numbering in Microsoft Word.

ActiveX Control

- ECAD functionality exposed.
- Expanded list of fired events for cross-probing.

EDA Functionality

- Precise 2D measurements (snap to end, middle, and center; to components, pins). The measurements can be applied as annotations in Markup mode.
- Intelligent querying allows extracting and displaying all entity attribute information. Can "drill-down" e.g. from components->pins->nets etc.
- Flexible layer control. Displays all layers attributes in addition to default attributes such as color, visibility, printability. Allows direct, one-click access to top and bottom views as well as arbitrary re-ordering of layers. Supports drawing-defined layer sets.
- Display list of all components, pins and nets.
- Highlight the selected components.
- Highlight the connected nets.
- Zoom to the selected components/nets.
- Entity browser allows flexible searches for entities based on entity types and attributes.
- Cross-probing between schematics and corresponding PCB layout.
- Post-processing output: Generate reports, such as BOMs.
- View PCBs as electronic components, and as 3D mechanical models in ECAD formats that support the height dimension.

General

- Added face-to-face distance measurements in 3D.

New INI File Settings

[Options]

ACAD2004RGBCOLOR=[1/0]	Default 1 :=Use RGB color. 0 :=use AIC (Autocad Indexed Color). Option applicable to AutoCAD 2004 Drawings.
AIBACKGROUND=[1|0]	Default 1 :=Draw page background. 0:=Do not draw page background. Option applicable to Inventor 2D versions 6 and 7.
AILOADNATIVE2D=[1/0]	Default 1 :=Read native data for Inventor 2D. 0 :=Read embedded DWF information. Option applicable to Inventor 2D versions 6 and 7.

AutoVue 17: December 09, 2002

Format Support

AEC/CAD Formats

- Added support for the SVG file format
- ME10: Added support for embedded OLE objects and dimension tangency.
- Added line pattern support for the Autodesk DWF format.

MCAD Formats

- Added support for Catia 5 3D Parts (.CATPart) (Mesh representation).
- Added support for Catia 5 3D CGR file format (.cgr)
- Updated support for Autodesk Inventor version 6 (3D)
- Updated support for SolidWorks 2003
- Updated support for Unigraphics NX
- Updated support for Solid Edge version 12
- Updated support for Solid Designer version 9

EDA Formats

- Added support for Allegro IPF (Intermediate Plot Format .plt).
- Added support for Barco DPF version 5 (.dpf, .dpl, Multilayer support)
- Added support for Mentor BoardStation PCB Layout version 8 (.attr)
- Added support for Mentor BoardStation Schematic version 8 (.attr)
- Added support for Orcad Layout Binary format, version 9.2 (.max)
- Added support for Orcad Layout Ascii format, version 9.1 (.min)
- Added support for PDIF PCB Ascii and Binary versions 7.0, 8.5 (.pdif, .pdf)
- Added support for PDIF Schematics ASCII and Binary versions 7.0, 8.5 (.pdif, .pdf)
- Added support for Cadence Allegro (version 14.1, 14.2) Board Layouts, Drawings and Symbols (.brd, .dra, .ssm, .mcm, .psm)
- Added support for the Mentor Neutral file format (.neu)
- Added support for the IDF (versions 2.0, 3.0) format for Board and Library files (.brd, .lib, .emn, .emp, .pro)

Office Formats

- Added support for Type 3 and CID fonts for Adobe Acrobat PDF viewing.
- Added repeated table header support in Microsoft Word.
- Added support for viewing Microsoft Project (.mpp) files -- Note: requires the Microsoft Project application to be installed.

ActiveX Control

- 3D export functionality exposed.
- Expand list of fired events.
- Added API to delete Markup layers.
- Added support for transparent watermarks.

General

- Added support for transparent watermarks.