Release Notes: Desktop Edition

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	-1

	2 = millimeters **12** = mil	

[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 NCD_TOOLFILEPATH	Options apply to NC-Drill format. Complete path for Aperture format file. This file provides information on how to read the tool file. Complete path for Tool file.	Empty path Empty path

Release Notes: Desktop Edition

AutoVue 19: September 26, 2006

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

Release Notes: Desktop Edition

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.

Release Notes: Desktop Edition

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.

Release Notes: Desktop Edition

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.