

Visual CADD v9 – What’s New

Please note the contents are organized as follows for the benefit of continuing v9 users to read What’s New in each successive v9 release. If you are a new v9 user or want to review previous v9 Beta, Release Candidate, and Release versions, please read the Feature Highlights and More Features sections for all v9 Beta, Release Candidate, and Release versions.

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Fixes & Corrections – v9.0.1.68 – v9.0.1 Release

- Improved import of DWG paper space.

Features – v9.0.0.66 – v9.0.1 Beta 4

- Added a true object rubberband to the Paste command.

Fixes & Corrections – v9.0.0.66 – v9.0.1 Beta 4

- Fixed cases where the PostLoadVCD script might not run when loading a drawing.
- Fixed missing drag image rubberbands for reference frames, fills, and hatches.
- Improved drag image rubberbands for overlapping objects.
- Fixed missing fills in some v9.0.0.64 PDF export.

- Fixed an endless loop which may occur with the Ortho dialogs in v9.0.0.64.
- Fixed a problem with some snaps and nestable tools in scripts in v9.0.0.64.

API and ActiveX/COM – v9.0.0.66 – v9.0.1 Beta 4

- Added API functions for management of configuration files *.vccfg.
- Added API function VCONIdle() to do idle time processing.

Features – v9.0.0.64 – v9.0.1 Beta 3

- Added an option for LoadAscii/LA to start the Text/TL tool for placement of the text.
- Added a true rubberband to the LoadAscii/LA tool.
- Added a true rubberband to Paste Special with text.
- Added a feature to linetype comboboxes to highlight device/world and balanced/unbalanced linetype definitions.
- Added a feature to the right-click popup in linetype comboboxes to sort defined linetypes first.
- Added three new world linetypes.
- Added the ability to explode simple geometric objects with linetypes to their linetype dashes.

Fixes & Corrections – v9.0.0.64 – v9.0.1 Beta 3

- Added command type key to Custom Commands and Custom Shortcuts dialogs.
- Added command type to tooltips in the Available Commands dialog.
- Fixed toolbar buttons not correctly showing the active command in some cases.
- Fixed potential problem with Rotate/RO and Skew/KW ribalogs when used in scripts with UIOff.
- Fixed behavior of Text/TL when started with a text string from native TextStr or API.
- Fixed problems with symbol placement tools and their ribalogs being in-sync on start and complete.
- Fixed SymPlace/YP and SymLast/YL to start correctly with or without a ribalog on the spacebar repeat.
- Changed the SymPlace/YP ribalog to modal and to start the symbol placement immediately.
- Changed SymPlace/YP and SymLast/YL when started with no symbols loaded to instead start SymMgr/MGY.
- Changed SymBreak/YB when started with no symbols loaded to instead start SymOpen/YO.
- Fixed SymOpen/YO on Load and Place or Place Single to correctly start the placement tools with or without the symbol ribalog.
- Fixed the main speedbar not restoring in rare cases.
- Changed command prompts on SymPlace/YP and SymBreak/YB for choosing different symbol.
- Fixed errors in aborting scripts using user points @ or @@.
- Fixed errors in scripts using nested snaps with user points @ or @@.
- Improved the handling of extraneous @ and @@ tokens in scripts.
- Fixed problems with Esc to abort the current tool and double-Esc to deselect selections and abort any current script.
- Changed double-Esc to be two Esc within the same time as required for left mouse button double-click.
- Fixed problems with aborting a tool or starting a new tool not correctly canceling any current script.
- Changed 3 toolbar bitmaps to be more clear in their tool representation.

- Improved error handling in the Load Text dialog.
- Fixed missing dots when drawing linetypes.
- Fixed a pattern alignment issue with world scaled linetypes.
- Changed linetype comboboxes to show 3 repeat patterns of world linetypes.
- Fixed the output size of zero-length linetype dashes in PDF Export/XPP.
- Eliminated an unexpected drawing mouse click when closing main toolbar dropdowns.
- Fixed problems in Change/CG ribalog changing between fast properties on/off.
- Fixed SplitPoly/PG for an error on the first segment of the split boundary.
- Added error message boxes to MergePoly/PM and SplitPoly/PG when started with invalid selections.
- Fixed MergePoly/PM and SplitPoly/PG not aborting correctly when started with invalid selections.
- Fixed rubberband color in SplitPoly/PG.
- Fixed Stretch/SS and WinStretch/WS to not hide the original selection.
- Fixed Boolean/BO, FenceTrim/NT, Offset/OF, and MTrim/TM to not deselect the original selection when aborting.
- Fixed MExtend/XM to not deselect the original selection when aborting.
- Fixed a crash which may occur when aborting MExtend/XM.
- Fixed MExtend/XM to require that only lines are selected.
- Fixed line widths possibly drawing incorrectly in certain cases.
- Fixed DimSelected/MM not working on polygons.
- Fixed missing polygons in output from Plot.
- Fixed layer dropdown lists not adjusting their width for layer name length.
- Optimized drawing speed for drawings using a large number of colors and/or line widths.
- Fixed a resource leak when drawing masks.

API and ActiveX/COM – v9.0.0.64 – v9.0.1 Beta 3

- Fixed two symbol placement API functions for problems with tools and their ribalogs being in-sync on start and complete.
- Fixed two API functions not correctly aborting previously running tools.
- Fixed potentially missing settings in XML returned by VCGetStyleString().

Features – v9.0.0.62 – v9.0.1 Beta 2

- Changed rubberbands and drag images on most tools from dots or bounding boxes to real objects for better usability.
- Added a real-world ortho angle edit box to the OrthoAdv/OV ribalog.
- Added \$EXTD() and \$EXTO() text substitution keywords to substitute extended data.
- Added 2x2 dots to drag image for better visibility when dots are being used.
- Added bold highlighting for non-default items on the Advanced settings dialog.
- Added true mouse cursor to the third point of Rect3/R3 with cursor free off.
- Changed the fraction lines of single unit fraction vector text to a fill from a line.
- Added a which-side cursor to four tools using a which-side point placement.
- Added a vertex and 2-ray rubberband to DimAng/DA.

Fixes & Corrections – v9.0.0.62 – v9.0.1 Beta 2

- Corrected the tooltip for the 3-point angle match button.
- Changed the command prompt for the 3-point angle match tool from base point to vertex.
- Fixed the 3-point angle format in the Measure Distance ribalog when using surveyor bearings.
- Fixed a possible error in surveyor bearings when very close to the 4 compass points.
- Fixed a crash which may occur when importing GCD files containing symbols with attributes.
- Fixed errors in three lesser used native command toggles.
- Changed FilePrint/PR to use a default name when printing an unnamed drawing.
- Fixed ortho angle box on OA ribalog and TBC dialog incorrectly using surveyor units.
- Fixed OA ribalog to update the ortho angle real-time instead of only on OK.
- Fixed a small error in leader text vertical alignment due to leading in font definitions.
- Improved the tooltips for line spacing edit boxes to give additional information.
- Fixed a rare issue where exporting drawings with empty text strings to PDF can create corrupt PDF files.
- Fixed a crash which may occur in dimensions with empty text.
- Fixed a memory leak when updating extended data.
- Fixed the Extended Data editor not updating values correctly.
- Fixed a spurious DLL conflict message which may appear when starting VCADD with a double-click.
- Fixed missing drag image dots on high resolution displays.
- Improved the symmetry of the lines in the display of point objects.
- Corrected leader settings when loading pre-v5 drawings.
- Corrected some match tool errors between leader and dimension settings.
- Fixed the rubberband color for the Multiple Trim tool.
- Fixed a memory leak in the Multiple Extend tool.
- Changed drag image to replace the Show Drag toggle on TabSystem/TBS with a user setting for drag image timeout on the TabAdv/TBA dialog.
- Improved rubberband and drag image drawing speeds.
- Fixed a crash when drawing rubberband text with "Display text onscreen while typing" is disabled.
- Fixed the rubberband drawing of text in the Text Line tool.
- Fixed vanishing rubberbands in the text, leader, and dimension tools.
- Changed Font Not Found Message in TBA to remove quotes.
- Improved the visibility of the cursor in many tools using rubberbands.
- Improved the cursor behavior for the Selection tool.
- Fixed Clear/DX not regenerating world views.
- Eliminated an unnecessary rubberband draw at the completion of the spline and continuous Bezier tools.
- Fixed the positioning of TrueType text in symbols placed with a negative X scale.
- Fixed clipping in the rubberband drawing of some TrueType text.
- Improved rubberband speeds on Leader/LE when using vector fonts.
- Removed limit of 500 entities selected or in a symbol definition for modify tools and SymPlace/YP.
- Changed Snap Percentage to not require a click on the OK button.
- Fixed some tools ignoring the OK button after some snaps or constraints.
- Fixed several tool ribalogs disappearing after some snaps or constraints.
- Fixed the move text feature of Text/TL to correctly support ortho mode and arrow keys.

- Fixed a problem using arrow keys with ortho mode on.
- Corrected the basepoint for the incremental steps made by the screen arrow keys.
- Fixed rubberbands and support of arrow keys in dimension placement and dimension move text tools.
- Improved the behavior of the Enter and Esc keys with the Text Line tool.
- Fixed a case where using Enter to place points could unintentionally move the point.
- Fixed some format errors in dimension and display strings using Decimal Feet and Inches.
- Fixed status messages and command repeat for the Fill Change tool.
- Fixed tab order in the TabNumeric/TBN dialog.
- Fixed angle strings using custom decimal points to have leading zeros.
- Fixed the format of the Decimal Places combobox in TabNumeric/TBN when using custom decimal points.
- Fixed the Mode group box not hiding in the dimension settings dialog when editing dimensions other than linear.
- Fixed the dimension edit dialog to hide the Distance/Angle combobox when editing radial and diameter dimensions.
- Changed contents of Distance/Angle combobox on TabDimText/TBX and DimEdit/DE for consistency.
- Fixed angles in ordinate dimensions when using distance/angle formats.
- Fixed the dropdown height in property lists such as Dimension Settings when used on high resolution displays.
- Fixed the underline of vector text when using single unit fractions.
- Fixed several rare cases where vector text might draw with incorrect line width.
- Fixed issues when offsetting arcs in paths with "Convert Circle/Arc to Bezier".
- Improved the offsetting of paths containing splines or continuous Bezier curves.
- Fixed various problems with cursors being incorrect, missing, ghosting, etc.
- Fixed a rare case where the spline and continuous Bezier tools may create an object with an invalid number of points.
- Fixed setting real-world line widths in the Text Line tool.
- Fixed a rare crash using Snap Intersection with Bezier curves.
- Fixed possibly incorrect cursor when ZmAutoPan/AA completes.
- Fixed screen redrawing with the Auto Pan tool.
- Fixed potentially incorrect background color when scrolling.
- Fixed cursor problems in nested tool completion and in Select/SE.
- Corrected cursor display for selected OLE objects.
- Fixed six tools which could have slightly different snap behaviors when run from a script.
- Fixed a rare ghost cursor.
- Fixed several tools not drawing their cursor until a mouse move.
- Fixed Boolean/BO not drawing its rubberband until a mouse move.
- Changed the cursor on LoadAscii/LA to be the same I-beam cursor used by Text/TL.
- Fixed a missing command prompt for LoadAscii/LA.
- Fixed various cursor and rubberband problems when placing symbols.
- Fixed a problem with the symbol place ribalog when using SymOpen/YO with Open and Place Single.

API and ActiveX/COM – v9.0.0.62 – v9.0.1 Beta 2

- Added an AlertApp for file dialog events.
- Added VCGetFontFullHeightRatio for the TrueType font full height ratio.
- Fixed API functions for the font manager erroneously adding fonts to the font manager font list.
- Fixed API functions for the font manager for out of range input data.
- Fixed an obsolete Windows system cursor used by VCSetCursor().
- Fixed three tools which would incorrectly override a cursor previously set by the API.

Features – v9.0.0.60 – v9.0.1 Beta 1

- Added style option presets to Save Styles.
- Added custom views to the VCD file preview.
- Added high resolution file preview.
- Added layer name sorting to layer comboboxes.
- Added tooltips and status prompts to LayMgr/MGL tools to copy/move to a layer.
- Added Esc key and toolbar button clicks to abort LayMgr/MGL tools to copy/move to a layer.
- Added native commands ZmAllViewAll and RgenAllVwAll to zoom or redraw all views of all drawings.

Fixes & Corrections – v9.0.0.60 – v9.0.1 Beta 1

- Fixed selecting of vector text which has only invisible characters, such as spaces.
- Fixed color of handle point for selected TrueType text.
- Fixed the display style of the scrollbar on the hatch list.
- Fixed the Change tool not applying Layer Property width to objects with Real World widths.
- Fixed misspelt word in spell check preview sometimes scrolling out of view with long sentences.
- Improved resampling of image objects and hatch bitmaps.
- Improved accuracy of image positioning when the displayed image is larger than the screen.
- Fixed a crash which may occur with corrupt symbol attributes.
- Fixed a rare crash which may occur in dimension settings.
- Fixed a crash which may occur when starting VCADD with a double-click in File Explorer.
- Improved save times for drawings with large embedded images.
- Fixed a spurious missing font message.
- Fixed instances where zooming or redrawing could inadvertently affect drawings other than the current drawing.
- Improved DWG/DXF import/export of fonts, bold, and italics in dimensions, text, and leaders.
- Removed some unused elements from XML export of some dimension, leader, and display settings.
- Fixed dimension text vertical spacing for certain cases of DWG/DXF import.
- Fixed CleanData/XC possibly running out of memory when creating the clean data log.
- Fixed the multi-match button to start with the '=' key.
- Fixed Change/CG tool being disrupted by mouse clicks.
- Fixed tool ribalogs possibly not closing in certain rare circumstances.
- Fixed the Sort By Name button on LayMgr/MGL not always updating its current state.
- Fixed the PDF export of degenerate continuous lines and continuous Beziers.
- Updated EPSGDataBrowser for new EPSG database.
- Improved EPSGDataBrowser compatibility with high DPI displays.

- Improved the handling of errors when exporting OLE objects to PDF.
- Fixed OLE Manager dialog to obey dialog scale.
- Fixed a crash which may occur when saving a drawing with a large number of symbol definitions.
- Fixed a rare crash when loading drawings with a large number of text objects.
- Improved the saving of linetype and hatch definitions in VCD files.

API and ActiveX/COM – v9.0.0.60 – v9.0.1 Beta 1

- Added native script commands and API functions to preset the initial folder for the file dialogs.
- Added API functions to access the FileName script variable.
- Added new API and ActiveX/COM functions to zoom or redraw all views of all drawings.

Fixes & Corrections – v9.0.0.58 – v9.0.0 Release

- Fixed Fillet/FI not working on selected continuous lines which are a large distance from the origin.
- Fixed a crash which may occur when using the latitude-longitude API functions.
- Fixed lock ratio saving on Chamfer/CH, GridSize/GS, and Scale/SZ ribalogs.

Fixes & Corrections – v9.0.0.56 – Release Candidate 2

- Fixed a crash which may occur when using Seed Hatch or Seed Fill in complex drawings.
- Fixed incorrect word wrapping for text containing tabs.
- Removed unused obsolete settings from drawing settings when saved to a style.
- Removed an unnecessary setting from multiline settings when saved to a style.
- Fixed the display of fractional units and combined feet/inches units in the Measure Distance dialog.
- Fixed Surveyor unit display in the Measure Distance dialog.
- Fixed incorrect 3-Point Angle after using Undo Vertex in Measure Distance.
- Fixed a crash when exporting zero-area fills and hatches to DWG.
- Added zero-area fills and hatches to be removed by CleanData/XC.
- Fixed stray objects which may be added by the Double Line tool if Auto Fillet is on.
- Changed MRU folder list to include folders only when a file is opened.

API and ActiveX/COM – v9.0.0.56 – Release Candidate 2

- Changed VCGGetCurrentEntityCentroidAndArea() ActiveX/COM interface for VBScript

Features – v9.0.0.54 – Release Candidate 1

- Added User Guide to default main menus.
- Added Backup On File Save support to FileSaveAs/FA.

Fixes & Corrections – v9.0.0.54 – Release Candidate 1

- Fixed problems with MTrim/TM trimming curved objects.

- Improved save times by 50% when using Backup On Save File.
- Fixed a dimension ribalog to obey the UIOff script native command.
- Fixed a minor problem with seed tools encountering a line segment with only one endpoint.
- Fixed a problem with continuous lines possibly using the wrong endpoint for certain adjoining entity paths and boundaries of hatches and fills.
- Fixed adjoining entity paths incorrectly using invalid endpoints of closed entities.
- Improved word wrap for the Assign Script edit box.
- Fixed a rare crash when zooming drawings containing images.
- Changed the default location of the user Documents folder to ignore OneDrive.

API and ActiveX/COM – v9.0.0.54 – Release Candidate 1

- Made VCA adjoiningToMEP() and CMD_ModAdjoiningToMEP obsolete and redirected to VCSelectAdjoining() and CMD_SelectAdjoining, respectively.

Features – v9.0.0.52 - Beta 10

- Added a speedbar context menu item to set all selected objects' properties to by-layer.
- Added F1 context help for the currently running tool.
- Added exponentiation (power) operator ^ and modulus (remainder) operator % to mathematical expressions.
- Added PROGRAM as a keyword for \$PATH() substitution to get the VCADD EXE's folder.
- Added version number to symbol definitions saved in VCS symbol files.
- Added Version attribute to root element of exported XML files.
- Added the print color map to the Colors styles.

Fixes & Corrections – v9.0.0.52 - Beta 10

- Offset tool now ignores zero length segments when offsetting continuous lines.
- Fixed Trim Multiple potentially adding stray objects.
- Fixed the Close Contour command when used with @ and @@ in scripts.
- Fixed vertical text alignment in dimension text for rare cases in pre-v8 drawings.
- Fixed a problem with dimension display settings in VCSTY files.
- Modal dialogs now regain the keyboard input when switching back to Visual CADD from other applications.
- Fixed the prompt text for the Clear Selection command.
- Fixed the prompt text for the DeSelect All command.
- Improved the appearance of the "current properties" icons in the Layer Groups dropdown.
- The LP button on the Change ribalog is now disabled when it is not applicable.
- Updated ACAD settings dialog versions.
- Changed names of style dialog options for DWG and GCD import/export.
- Fixed a crash which may occur when initializing the WinTab32.dll digitizer driver.
- Digitizer now must be explicitly enabled in VCADD.ini.

Features – v9.0.0.50 - Beta 9

- Added the VCADD shared folders to the "Browse for Folder" dialog's Places bar.
- Added the ability to remove all attribute definitions.
- Added Centroid to the XML Traits for Bezier, continuous Bezier, spline curves, and continuous lines.

Fixes & Corrections – v9.0.0.50 - Beta 9

- Fixed the tool drag image not showing all selected objects if All Layer Edit is off.
- Loading a style with hidden layers now deselects objects on those layers.
- Fixed a problem with text substitution becoming disabled.
- Fixed selected objects on hidden layers not deselecting.
- Improved the appearance of the Application Button.
- Changed spellcheck option from "Report doubled words" to "Ignore doubled words".
- Changed the Input script command so that it does not automatically execute shortcut commands.
- Scaled the startup splash window for high resolution displays.
- Fixed an issue where some symbols may cause other objects to use the wrong color when printing with the Map option.
- Reduced the ConfigDiff HTML reports to only include the file being updated.
- Changed the text for the "Automatically update" Help menu item.
- Fixed missing initial color entry in some color dropdowns if ByLayer is used.
- Added a scrollbar to the attribute list on the Create Attribute dialog.
- Removed newlines from the group name warning message.
- Fixed tooltips on the Advanced settings page.
- The Selection tool's statusbar selection information now updates immediately when the selection is changed.

Features – v9.0.0.48 - Beta 8

- Added native command ConfigDiff to migrate certain customization files from previous versions at first startup of v9, to migrate certain customization files on demand later, and to create reports to assist migrating customization files for major version upgrades and for minor dot version updates.
- Added a one-time prompt to choose mouse right-click function to aid in major version upgrades.
- Added a layer-to-color mapping option for printing and PDF export.
- Added native command ObjXML/OX to show object information in XML format.
- Added an option to selection filters, Filter/SF, to filter on hatches with pattern errors.
- Added a watermark hatch pattern.
- Added a crosshatch bitmap hatch pattern.
- Added a script element to abort the script.
- Added mirror files for CmdExt.vcdef, Script.vcdef, Natives.vcdef, Custom.vchat, and Custom_MouseMnu.vcdef.

Fixes & Corrections – v9.0.0.48 - Beta 8

- Disabled using SymOpen/YO to open DWG or DXF files due to significant problems.
- Fixed SelCross/SX to handle hidden boundaries of hatches, fills, and masks.
- Fixed SelCross/SX for various control point issues with hatches, fills, and masks.
- Optimized SnNearPt/NP and SnClosestPt/SC for speed.
- Fixed SelFence/NS and SelFenceX/NX to handle hidden boundaries of hatches, fills, and masks.
- Standardized XML output to use 4 space indents.
- Fixed phantom construction and handle points for vector text.
- Added a more descriptive tooltip for substituted fonts in the Font Manager list.
- Fixed hatches not selecting or redrawing for certain rare cases.
- Removed Classic.vcmnu and MainSBar_v7.vcmbr from auto-generating.
- Added ObjXML/OX to menus and toolbars.
- Fixed Shift+Right-click triggering trace mode for continuous curves and multilines.
- Fixed an issue where some dialogs may appear to not restore after rollup to their caption.
- Changed Custom_MouseMnu.vcdef and Custom.vchat to comment their examples.
- Removed virtual folder names from the Paths Settings page.
- Fixed Grayscale printing of TrueType text.
- Fixed a crash in ESRI map file import when the file has polygons with more than 32767 points.
- Added native command ConfigDiff to the Utility menu.
- Fixed auto-generation of menu files at initial startup.
- Fixed SymPlace/YP and HatchSet/HT for drawing or flashing in the titlebar when they start.
- Fixed TabHatch/TBH for unnecessarily redrawing the hatch preview on OK.
- Improved the size of the menu checkmark on high DPI displays.

Features – v9.0.0.46 - Beta 7

- Added support for single unit stacked fractions for dimensions, text, and leaders, for example, an option for stacked $\frac{1}{2}$ in addition to the existing diagonal slash $\frac{1}{2}$.
- Added native commands DimSUFStack and SecSUFStack for single unit stacked fractions for dimensions.
- Added a \$SUS() text substitution keyword for single unit stacked fractions for text.
- Added Convert Fill to Hatch tool to the default Draw | Fill menu.
- Added color highlights to toggle status messages: green for ON, red for OFF.
- Added ZmAutoPan/AA to the default left toolbar and right-click zoom popup menus, including a toolbar bitmap image.
- Added a Match All item to the right-click context menu for the toolbar property comboboxes.
- Added the hatch type to the tooltips in hatch lists.

Fixes & Corrections – v9.0.0.46 - Beta 7

- Fixed possible errors when editing filled text for multiple text, leaders, or dimensions.
- Fixed possible alignment, spacing, and entity extents problems with vector font text.
- Changed dimensions to explode to text using \$SUF() and \$SUS() text substitution keywords rather than unprintable special control codes.
- Fixed duplicate combobox entries for fonts with "Draw As Vector" on.
- Fixed ObjInfo/OI showing incorrect entity width property.

- Changed Tab Spaces on TabText/TBT to not disable when not left justified.
- Fixed an extents error in TrueType text with tabs.
- Fixed a rare crash when loading very old drawings.
- Fixed Snap Intersection not snapping to intersections in compound objects.
- Fixed some dialogs possibly not updating all settings when using Alt+O for OK.
- Improved the behavior of trim/extend with continuous objects.
- Changed controls on TBS to correctly refer to mouse wheel scrolling rather than panning.
- Fixed layers redrawing with draw order in layer manager, hide/display layers, and others.
- Fixed matching properties on Change/CG and Properties/PP with and without UseFastProp/FP.
- Improved the UI for PP and CG to clarify between match one control and match all with the = key.
- Improved the backward compatibility of the new hatch types.
- Fixed a hatch pattern.

API and ActiveX/COM – v9.0.0.46 - Beta 7

- Added VCGetStatusColorText, VCSetStatusColorText, VCGetStatusColorBgnd, and VCSetStatusColorBgnd to set statusbar message colors.

Features – v9.0.0.44 - Beta 6

- Added support for TrueType draw as vector, a new vector font outline fill option, and kerning to all of text, leaders, and dimensions.
- Added a "Draw As Vector" indicator to font lists.
- Added text substitution keywords \$SUB() and \$SUP() for text subscripts and superscripts.
- Enhanced the Echo script command to show \$ variable values.
- Added options to quit the script to the Echo command.

Fixes & Corrections – v9.0.0.44 - Beta 6

- Improved memory handling in Image Export to allow higher resolution images.
- Fixed incorrect colors in Image Export modes which use a color palette.
- Fixed focus issues in the Run External Program dialog.
- Modified the Offset tool so that it will only pick objects which can be offset.
- Fixed \$SUF() text substitution to only apply to vector fonts and TrueType drawn as vector.
- Fixed the TBF substitute font showing incorrect type icon.
- Fixed a crash on right click in the TBF substitute font combobox.
- Removed tab stops from several arrowhead preview controls.
- Fixed several TabOptions/TBO settings dialogs not updating for certain navigational tab keys.
- Fixed the TabGeneral/TBG dialog which could inadvertently hide the print origin after Cancel.
- Fixed the TabCnstrnt/TBC dialog which could inadvertently hide the grid after Cancel.
- Fixed nested hatch patterns always drawing the hatch boundary.
- Fixed pre-v9 version compatibility of No Break on Floating dimension text.
- Fixed the dropdown size of the Vertical Align listbox on DimEdit/DE and TabDimText/TBX dialogs.
- Fixed the tie line behavior on floating dimension text.

- Changed TrueType rendering to more consistently use kerning.
- Fixed an entity extents error in some TrueType text.
- Changed a menu item description in the properties boxes right-click popups.
- Fixed incorrect Match context menu text in the speedbar property comboboxes.
- Fixed a minor rare problem with more than one single unit fraction in a text string.
- Fixed the statusbar prompts for the menu caption buttons.

Features – v9.0.0.42 - Beta 5

- Added the ability to revert editbox "Show Full Value" to the rounded value.
- Added a context menu item to paste the measured value in the dimension Overwrite ribalog.

Fixes & Corrections – v9.0.0.42 - Beta 5

- Fixed a minor problem with certain linear dimension lines.
- Fixed progress bar issues for either not showing or not closing when done.
- Fixed direct distance entry for the three-point rectangle tool.
- Fixed tool status prompts for scripts using @.
- Fixed HatchBnd/HB to initially keep keyboard focus in the drawing.
- Fixed scale and location for images exported with selection only enabled.
- Fixed a potential crash in the Image Export dialog.
- Fixed Image Export "Open File" setting not restoring.
- Fixed a minor dialog layout issue in the TBM dialog.
- Fixed file locking involving reference frames in DWG/DXF export.
- Fixed long filename usage in DWG/DXF export.
- Removed a confusing and ambiguous warning message from certain cases of DWG export.
- Fixed DWG export of drawings with reference frames to use the same export units.
- Fixed command prompts for consistent style and syntax.

API and ActiveX/COM – v9.0.0.42 - Beta 5

- Fixed the behavior of the drawing modified flag in VCSaveDrawing() for non-VCD saves.
- Fixed VCSaveDrawing() removing LOC file when exporting DWG/DXF.

Fixes & Corrections – v9.0.0.40 - Beta 4

- Fixed problems with dimensions in symbols and reference frames.
- Fixed a potential crash when using Load as Drawing from Symbol Manager.
- Disabled Symbol Manager popup menu items when there is no symbol selected.
- Fixed the About dialog bitmap size on high resolution displays.
- Fixed several nested tools for potentially resetting active tool constraints.
- Fixed cursor and rubberband display for mouse wheel zoom and pan.

Features – v9.0.0.38 - Beta 3

- Added support of Proximity Fixed to angular dimensions.
- Added support of float dimension text position for placing DimAng/DA.
- Added support for external MouseMnu context menu files.

Fixes & Corrections – v9.0.0.38 - Beta 3

- Fixed a File Open crash in Windows 7.
- Fixed unexpected Symbol Place and a potential hang when switching drawings while SymMgr/MGY is open.
- Fixed incorrect status line message for partitioned linear dimensions.
- Expanded custom command menu description text limit to 79 characters.
- The Symbol Manager now updates when a drawing containing symbols is opened.
- Fixed minor issues with dimension lines in linear dimensions.
- Fixed spurious registry error reports.
- Fixed position of uncentered angular dimension text.
- Fixed DimSlideTxt for floating angular dimension text.
- Adjusted layer property swatch size on high resolution displays.

Features – v9.0.0.36 - Beta 2

- Added a toolbar button scale feature to TabUI/TBU.
- Added optional verb prefix to AutoMacro.
- Added \$VER() text substitution keyword.
- Added context menu with help link to Text Substitution keyword comboboxes.

Fixes & Corrections – v9.0.0.36 - Beta 2

- Fixed incorrect points in scripts using the @ element.
- Improved the TabTools/TBW dialog.
- Fixed the initial folder for Save As.
- Fixed Fast Properties edit selection when tabbing in the Change ribalog.
- Fixed a problem with Undo after using WinStretch/WS or Stretch/SS on a curve.
- Fixed the width of left toolbars with no flyout buttons.
- Fixed a spurious scrollbar which may appear in tabbed ribalogs.
- Fixed incorrect loading of multikind filters from styles.
- Fixed incorrect disabling of Attribute Edit and Move commands in menus.
- Fixed command entry with the dimension preview dialog active.
- Fixed ribalogs overwriting floating dialog.
- Fixed tool rubberbands after using ZmIn/ZI, ZmOut/ZO, Ctrl+, and Ctrl-.
- Improved version compatibility of dimension lines and the No Break setting.
- Changed order of Shoulder and Offset controls in DimEdit/DE for radial and diametrical dimensions.
- Fixed the long delay on area calculations of closed continuous lines with very many points.
- Fixed DWG import issues: symbols in symbols; text vertical alignment; attributes attached to symbols; and dimension prefix/suffix.

- Fixed Select Crossing selecting ordinate dimensions when only invisible points are in the selection rectangle.
- Renamed the In-Line Distance edit box on TBX to Line Break Distance.
- Added right-click context menus for new v9 tools.
- Added text settings to Leader and Dimension menus.
- Improved handling of image files.
- Improved handling of folders when editing images.

API and ActiveX/COM – v9.0.0.36 - Beta 2

- Added VCGetButtonScale for the toolbar button scale.

Feature Highlights – v9.0.0.34 - Beta 1

Text

- Added text mask feature to text, dimensions, and leaders, with native commands TextMasked, TxtMskOffset, DimTxtMasked, and LdrTxtMasked.
- Added a CurveText/CT tool to place text along a line or curve.
- Added text kerning for TrueType drawn as vector with native command TextKern.
- Added word wrap for text with native command TextWordWrap.
- The \$PATH() substitution keyword now substitutes the current drawing's path when used without a parameter.
- Added an insert text keyword feature to Text/TL and Leader/LE and their floating text boxes, TextEditor/TE, and LeaderEdit.
- Removed the limit of 256 characters per text line.

Commands and Tools

- Added Fence Select and Fence Select Crossing tools, Selfence/NS and SelfenceX/NX.
- Added native tools RemovePoint/VPR and InsertPoint/VPI to remove or insert points in continuous lines and curves.
- Added native command FitVector/FV to fit a scale in a direction.
- Changed native commands FontShowTT, FontShowVCF, FontShowFav, FileProtect, and FileCompress from script-only to toggles.
- Added native commands to directly access pages of settings tree dialogs: GCDImpFont, GCDExpFont, DWGImpFont, DWGExpFont, DWGImpColor, DWGExpColor, CustCommand, CustShortcut, DimNumeric, WizSummary.
- Added native command IncremntUndo.
- Added native command LdrTabStops.
- Added native command DimTextJust.
- Added native commands HatchOffsetX, HatchOffsetY, HatchAlign.
- Added native commands UseBrkColor and IgnoreColor.
- Added native commands RFAngle, RFScaleX, and RFScaleY.
- Added native command GridOrgPt.
- Added native command DBSolidHatch.
- Added new native command PrtCpyPreset to copy an existing print preset.

- Added native command DimFarSideAr.
- Changed native command PrtAllBlack from a toggle to use an index.
- Removed obsolete native command UndoDim/UD.
- Removed obsolete native commands FontScale and DialogScale.
- Removed native command DimTextVert as a duplicate of DimInlineTxt.
- Removed obsolete native command HelpOnCmd.
- Removed obsolete native command LargeIcons.
- Removed obsolete native commands AutoSave and AutoSaveSec.
- Removed obsolete native commands PrtFastDraw and PrtPreview.
- Removed obsolete native command OleDllName.

Files and Drawings

- Added native command CloseExcept to close all drawings except the current one.
- Added native command FileRevert/RV to revert a drawing to the previous save.
- Added native command FileBackup/BU to manually backup a drawing.
- Added feature to backup drawings when they are saved with native command BackupOnSave.
- Added natives FileOpenCopy, FileOpenSty, FileSaveCopy, FileSvCpyOpn, SymOpenPlace, SymOpenPlac1, and SymOpenVCD to open and save VCD and open VCS for different purposes.
- Added FileName support to FileOpenCopy and FileOpenSty.
- Removed auto-save feature as not being useful.

Divide Tool

- Added option to Divide/IV to break into similar objects or lines.
- Added native DivBrkLines to toggle Divide/IV for breaking into similar objects or lines.
- Added support for 1 segment in certain cases of Divide/IV.
- Added support for SelMod/SU in Divide/IV.

Offset Tool

- Added feature to Offset/OF to replace original with the offset or to add the offset.
- Added feature to Offset/OF to offset circles and arcs to continuous Bezier same as ellipses and elliptical arcs.
- Added feature to Offset/OF to set the number of segments in the continuous Bezier when offsetting circles, ellipses, arcs, and elliptical arcs.
- Added native commands OffstAutoSeg, OffstNumSeg, OffstConvert, OffstReplace related to new features of Offset/OF.

Line Tracing

- Added feature to BezierCont/BC and Curve/CV to trace a continuous line.
- Added feature to MultiLine/MN to trace a single or continuous line, with optional reverse direction.
- Enhanced the Fillet tool to apply fillets to a selected continuous line.

Hatches

- Added a new type of hatch definition which is easier to create and edit.
- Added a new type of hatch definition to nest other hatch definitions.
- Added over 140 new hatch definitions, including brickwork, stonework, rock, gravel, sand, flooring, tiles, pavers, roofing, siding, hardware, and cartography.

- Added a new native command HatchArray to parse a selection to create a hatch definition.
- Hatches can now use bitmap patterns.
- Added a Load Hatch command LoadHatch to load hatch files while VCADD is running.
- Changed the hatch boundary tool, HatchBnd/HB, to show the hatch settings ribalog.

Centroids

- Improved areas and centroids for closed entities with self-intersections and holes.
- Added centroids for entity types cont. lines, multi-lines, and single and cont. Bezier.
- Added centroids to ObjInfo/OI for hatches, fills, and all closed entities.
- Added snap to centroid feature to SnCenter/SN snap tool for closed entities.
- Added snap to centroid feature to running snaps to center (RSCenter/XSN) for closed entities.

User Interface

- Added user-selected decimal and thousand separators to dimensions, with script-only commands DimDecSep, DimSecDecSep, DimThsSep, and DimSecThsSep.
- Added a dialog to show available commands, CmdList/WIC.
- Added native command SnPrevColor for running snap preview color.
- Grid dot styles are now user selectable.
- Added a native command GridStyle to set the grid dot style.
- Added editbox context menu items to show and copy full precision, unrounded values.
- Added a user customizable button set.
- Added support for up to 4 custom button sets.
- Moved the user interface language from System 2 settings to User Interface settings, TB2 to TBU.
- New Save Symbol user interface.
- Updated all file dialogs to current Windows standard.
- Added right-click context menu to the MDI drawing tabs.
- Added tool buttons to all ribalogs with distance and angle settings to support 2-point distance, 2-point angle, and 3-point angle matching.
- Added match all settings buttons to entity settings ribalogs.
- Added native command MDITabs to toggle the show/hide of the MDI drawing tabs.
- Added DWGImpExp, TabPath, StyleOpt, TabUI, and MDITabs to the default main drawing menu.
- Added tooltips to all settings and tool ribalogs.
- Changed Chamfer/CH, Fillet/FI, LineDbl/LD, RPolyCen/PC, and RPolySide/PS to show their settings ribalogs when they start.
- Added a selection tool flyout button to the default left toolbar.
- Added or improved tooltips on XDH, XDO, MGL, and TBK.
- Added DeSelAll/AD, Selfence/NS, and SelfenceX/NX to the default main menu, popup menus, and selection ribalog.
- Added to the default tool palette several symbol tools, CurveText, LeaderEdit, FillCh, several reference frame tools, several image tools, InsertPoint, RemovePoint, and FitVector.
- Added a one-time warning message with an option to open help, for certain shortcuts which can be accidentally run with unexpected results: IM, IL, IR, IO, LT, LW, TF, TH, TI, HI, PF.
- Added miscellaneous tool settings to TabTools/TBW.
- Added a Windows 11 button set to the TBU button options.
- Improved the TabColor/TBR dialog.

- Added Flip Angle Reference to the main dimension menu.
- Removed the inscribed option from the RPolySide/PS mouse menu.
- Added MTrim1/T1 to main menus, popup menus, and toolbar with new tool bitmaps.

Matching

- Added a Match tool item to the right-click context menu for the toolbar property comboboxes.
- Added match buttons to the floating text dialog and dimension scale ribalog.
- Added a new ribalog button to match the control with focus or all controls.
- Changed Properties/PP and Change/CG to change their match button display according to whether they will match the control with focus or all controls.
- Changed ChamferDist/CO and LayPropDlg/PY for distinction between match the control with focus or all controls.
- Added match items to the editbox context menu.
- Added support for matching selected symbols with MatchChange/CM.

Selection Filters

- Selection filters now support combinations of multiple object types with native commands FltRWidth and FltMulti.

Snaps

- The Ellipse tool now supports Snap Perpendicular, Snap Parallel and Snap Angle.
- Changed SnIntersect/SI to support self-intersection of single and continuous Bezier similar to previous support for continuous lines.
- Added support for running snap intersection on all geometric entities.
- Snap Perpendicular can now be used with the Leader tool.
- Added points as a valid entity for SnObject/SO.
- Added support of SP, ST, LL, and SV to LineDbl/LD.
- Added support of SnMid2Pts/S2 for nesting under SnPerp/SP.
- Added support of SnCenter/SN, SnFocus/NF, and SnGridPt/GN for nesting under SnPerp/SP.
- Added support of SnMid2Pts/S2, SnCenter/SN, SnFocus/NF, and SnGridPt/GN for nesting under SnTangent/ST.

Dimensions

- Added dimension line break and no break features to more cases of dimensions.
- Added text vertical position features to angular dimensions.
- Added a line in angular dimensions from the dimension arc to floating dimension text.
- Added angular dimension text vertical position options.
- Added alternate text rotation to angular dimensions.

Scripts

- The script edit box on the Assign Script dialog now wraps at semicolons as well as spaces.
- Added a script native command Clipboard to get and set the Windows clipboard text.
- Added a script native command Input to simulate keyboard input.
- Added a script command ExpPDFNoDlg to export to PDF without a dialog.
- Added a native command PDFCurPreset to set the current PDF export preset.
- Added a script-only command SimKey to simulate Shift, Ctrl and Alt keys.

- Added native commands SetViewName and RemoveVwName to set and remove named views in scripts.
- Changed script-only native command LaySelect1 to accept multiple layers.

Symbols

- Added an option to the Load Symbol dialog to immediately place the symbol.
- Added 'symbol definition' to popup menu for on-disk symbols in SymMgr/MGY.
- Added 'load as a drawing' to popup menu for loaded and on-disk symbols in SymMgr/MGY.
- Added 'load as a drawing' to the OK button on the SymOpen/YO dialog.
- Added Symbol Open and Symbol Manager buttons to the SymPlace/YP ribalog.
- Added a warning message to SymOpen/YO when a symbol is already loaded.
- Added current symbol settings to TabSymbols/TBY.
- Added tooltips to Symbol Manager, SymMgr/MGY.
- Added feature to symbol manager to select the current symbol in the symbol list when starting the symbol manager or when changing views.
- Added a match entity button to the symbol manager to match a picked symbol entity.
- Added 'use placement color' to the Symbol Place ribalog.
- Added support for editing symbols entities with Edit/ED and new native SymbolCh.

Reference Frames

- Added file MRU to the Reference Frame Create and Place dialogs.
- The Reference Frame Create dialog now presets the file name when persisted.
- RFOpenRef/RFR now opens the bound reference frame drawing rather than the disk file.
- Added warning messages when RFUpdateLink/RFU fails.

Layers

- The layer list on the Select Layer ribalog now only includes layers which are selectable.
- The Select Layer Objects item on the Layer Manager popup menu is now only enabled if the layer can be selected.
- Added sorting to layer comboboxes.
- Added support of multi-layer selections to Select Layer, SelLay/SY.

More Features – v9.0.0.34 - Beta 1

- Added a context menu item to update linked OLE objects.
- Added an option to update OLE links when a VCD file is opened with native OleAutoUpdat.
- Added an OLE link Update item to the object verbs submenu on the Edit menu.
- Added a VCMBR attribute to allow user setting of combobox dropdown heights.
- Sample default customization files are now created at every VCADD startup.
- Extended SHP import to include Z and M shape types.
- Improved the WinExec (RUN) command.
- Added the ability to embed TrueType fonts in VCD files.
- Added feature to not import DWG/DXF reference frame drawings.
- Added the ability to hide vertical TrueType fonts in the font lists with native command FontHideVrt.
- Added alias WIS to native WizSummary.
- Added arc direction traits to XML export.

Fixes & Corrections – v9.0.0.34 - Beta 1

- Fixed minor bugs in the line break in dimension lines.
- Enhanced the select crossing behavior for text.
- Fixed draw order when exploding leaders, dimensions, and symbols.
- Fixed native commands RFDspBndCh, RFTransCh, and RFElBndCh potentially running with erroneous selections.
- Improved the drawing and appearance of the Birds Eye dialog.
- Removed an old obsolete setting from reading and writing in VCSTY files.
- Fixed 7 native commands for errors in script setting values, \$variables, or both.
- Fixed a problem on the DMG ribalog where the Above Distance would not change unless Above-Line was set.
- Fixed a problem on the DMG ribalog where the In-Line Distance would not change unless In-Line was set.
- Fixed radial and diametrical dimensions erroneously changing the dimension text in-line distance.
- Improved the behavior of Help when invoked with the F1 key while some tools are running.
- Fixed DlgOk not closing dialogs in some cases.
- Fixed the leader tool leaving the leader erased in rare cases.
- Changed the TabOptions (Settings dialog) command to be repeatable.
- Fixed tooltip display so long tooltips will wrap rather than truncate.
- Trimmed trailing zeros from angles in tooltips.
- Added tooltips to TBS, TB2, TBP, TBU, AS, CustCommand, CustShortcut, TBK, SK, user dictionary edit, TBT, TBL, TBE, TBD, TBX, TBN, MS, TBB, TBH, TBI, TBM, TBG, TBC, TBW, RN, TBR, DWG/DXF import/export settings, GCD import/export settings, and TBF dialogs.
- Fixed the regular polygon tools incorrectly marking layer 0 as having objects.
- Fixed the Side Regular Polygon tool to obey the Explode Continuous Lines setting.
- Fixed a rare problem with the advanced ortho settings.
- Improved the user interface for the DWG Import Color settings dialog.
- Fixed certain nestable tools which could disrupt the previous tool if aborted, including ZmArea/ZW, ZmAutoPan/AA, and others.
- The AutoCAD Windows built-in color map is now read-only.
- Fixed double-click aborting Fillet/Fl.
- Fixed PenUp/PU not working after double-click on certain tools.
- Fixed Scale/SZ for errors with PenUp/PU.
- Fixed Rotate/RO, Skew/KW, and Divide/IV for errors with PenUp/PU.
- Fixed Divide/IV for a selection error after tool completion.
- Fixed scripts where some tools using "@@;" might not process a double-click as a PenUp.
- Fixed a problem with MultiLine/MN being a persistent tool.
- Fixed problems with PenUp/PU when using IP, HB, FB, MK, MN, and LC as persistent tools in scripts.
- Fixed a problem with Leader/LE being a persistent tool.
- Fixed a problem with Rect2/R2 being persistent.
- Fixed RFCreate/RFC being persistent.
- Disabled RFPlace/RFP and RFDetail/RFD being persistent when running RFTrim/RFT after.

- Fixed LineDbl/LD, BezierCont/BC, Curve/CV, and IPoly/IP so PenUp/PU with one or no points is treated as an abort.
- Fixed PenUp/PU behavior on Point/PO, SeedFill/FD, SeedHatch/HD, and MatchChange/CM to agree with other tools.
- Fixed PenUp/PU behavior on SymPlace/YP.
- Fixed MeasDist/MD for PenUp/PU to reset the segment distance and angles.
- Fixed PenUp/PU with no points placed on MeasDist/MD and MeasArea/MA to abort the tool and clear the ribalog.
- Fixed text overrun in the OLE Links dialog.
- Changed Divide/IV ribalog from radio buttons to list box.
- Fixed a difference between the rubberband and final object in certain cases of Offset/OF.
- Added tabbed ribalog for new settings for new features of Offset/OF.
- Fixed memory leaks in Fillet/FI when aborting the tool.
- Fixed memory leaks when closing a drawing.
- Increased hatch line limits from 32000 to 256K.
- Fixed the drawing of dots in hatch patterns to correctly display.
- Snap Perpendicular now picks the perpendicular point closest to the click point when the target object is a circle or arc.
- Fixed area calculation of self-intersecting closed continuous lines, multi-lines, curves, and hatch/fill boundaries.
- Fixed ObjInfo/OI for non-closed multi-lines with no valid area.
- Fixed areas of hatches and fills with holes.
- Fixed Break/BR to break all closed continuous lines in a consistent way.
- Fixed Break/BR to support zero-length breaks on Bezier curves in all cases.
- Fixed Break/BR and Trim/TR to avoid creating zero-length segments on Bezier curves.
- Fixed problems with Break/BR on elliptical arcs for certain cases.
- Fixed SnIntersect/SI for failing to snap to continuous line vertices in certain cases.
- Fixed problems in SnIntersect/SI where points not at an intersection could preempt true intersections.
- Fixed incorrect display position of some images when they are partially off screen.
- Increased the maximum height of the toolbar combobox dropdowns.
- Fixed a problem which could cause running snaps to centers of arcs and elliptical arcs to fail.
- Multilines whose start and end points are the same now trim their lines at the start-end corner.
- Fixed a memory leak in applying the break tool to arcs.
- The help window can now remain open at the same time as the VCADD window.
- Fixed angular dimension floating text when modified by point-changing tools, such as MovePt, Stretch, Scale, Rotate, etc.
- Fixed SeedHatch/HD and SeedFill/FD for certain cases of multi-entity boundaries including continuous lines.
- Improved SeedHatch/HD and SeedFill/FD speed optimization.
- Fixed SeedHatch/HD and SeedFill/FD erroneously including very small arcs in rare cases.
- Added path and computer titles to their respective entries in the about box.
- Added options for custom checkboxes and radio buttons.
- Display Properties list controls for dimensions, leaders and multilines now use the user selected custom checkboxes.

- Changed five sets of radio buttons to listboxes in ribalogs.
- Fixed parts hide/show checkbox on leader and dimension properties ribalogs for 3-state or 2-state.
- Fixed behavior of OK and Esc in text settings ribalogs.
- Fixed match tools to avoid using settings not set by the matched entity.
- Fixed ribalogs for ChamferDist/CO, DBSet/DB, DimArrowSet/DMA, DimDispSet/DMD, DimExtSet/DMX for various issues: real-time save of settings, match bugs and omissions, ribalog resources.
- Fixed several ribalogs/dialogs for miscellaneous minor bugs.
- Fixed the 45 and 90 buttons usage of Shift key for negative on SymPlace/YP.
- Fixed matching of all properties for Change/CG and Properties/PP ribalogs.
- Fixed match tools to validate matched data on D,A,V same as =.
- Fixed some problems with the text font, hatch pattern, and symbol names in selection filters.
- Implemented match all and match control with focus in SF.
- Changed tool bar button size to scale with dialog scale, making large icons toggle obsolete.
- Added a bitmap for the Properties/PP button on toolbars.
- Removed all special treatment of the Properties/PP button on a toolbar.
- Changed properties related command prompts for consistency.
- Improved tooltips on left, main, and quick access toolbars.
- Improved the handling of character references in XML configuration files.
- Fixed minor content and format inconsistencies across PR, PL, XPP, and XPI dialogs.
- Fixed read-only imported DWG/DXF not locking against re-exporting.
- Fixed missing preview label text in file open dialogs.
- Fixed various bugs in tool ribalogs related to nested tools.
- Fixed Esc failing to abort tools and their tool ribalogs in certain cases.
- Standardized treatment of Esc for abort in all ribalogs.
- Fixed a ribalog sizing problem.
- Fixed a problem with ==match in certain scripts.
- Removed the non-functional REGEDIT native command.
- Centralized and fixed bugs in ==match key in ribalog comboboxes.
- Standardized control labels on TBT, TBE, and TBX.
- Fixed FitScale/FT to prevent zero-length scaling.
- Fixed MeasDist/MD, MeasArea/MA, and Track/TK to not mark a drawing dirty.
- Fixed MatchEnt/ME, MatchTool/MT, and OrthoMatch/OT to ignore any active selection filter.
- Fixed MeasDist/MD and MeasArea/MA ribalogs not closing in certain circumstances.
- Fixed problems with using a world arrow key after SnPerp/SP, SnTangent/ST, SnPara/LL, and SnAngle/SV.
- Fixed crashes with zero width or zero height images.
- Fixed the Create Symbol dialog not allowing 32-character names.
- Symbol and attribute menu items are now disabled when no symbols and/or attributes are present.
- Improved rubberband drawing for the 3-point rectangle tool.
- Fixed a mouse jitter caused by extraneous mouse moves.
- Improved user dictionary interface on the Spelling Options dialog.
- Fixed an error in the dimension suffix when using MatchChange/CM.
- Fixed rare ghosting of the crosshair cursor and aperture.
- Fixed spacebar repeat of Place Symbol.

- Improved Create Attribute dialog.
- Fixed Attribute Edit and Attribute Attach lists overwriting other controls at some dialog scales.
- Added checks for invalid VCF files.
- Dialogs now adjust their restored size if the dialog scale has changed.
- Changed default drawing setting to compress files.
- Improved behavior of Reference Frame Create and Place dialogs in scripts.
- Fixed an error in the hatch pattern offset when modifying hatches which are using the origin hatch pattern alignment, for example, after SZ, RO, or MV.
- Fixed numeric scale incorrectly being applied to ExtendedData.
- Changed several message boxes to use Yes/No buttons when asking a yes/no question.
- Fixed two message boxes incorrectly handling the pressed button.
- Improved description of native ZmViewName.
- XML export and import now store their temporary files in the user's local appdata folder.
- Fixed a potential divide by zero on zero-sized reference frames.
- Fixed left-click dropdown on the speedbar width combobox.
- Fixed a crash when the FileOpen "Open As Copy" and "Open As Style" actions are used with no active drawing.
- Fixed incorrect LOC file name after "Save As Copy" and "Save As Copy and Open".
- Fixed incorrect file sharing status after some Save As operations.
- Fixed incorrect snap location when some snaps (e.g., SO) are used with elliptical boundary reference frames.
- Fixed some rare parsing bugs when entering certain scales.
- Fixed a problem with nesting SnMid2Pts/S2 under another SnMid2Pts/S2.
- Fixed problems where certain snap tools might not fully reset when completed.
- Fixed various, mostly rare, problems with snap tools and constraints.
- Fixed Snap Perpendicular - Snap Object and Snap Tangent - Snap Object snapping to the wrong object.
- Ensure that custom command shortcuts are read as uppercase.
- Fixed Snap Perpendicular - Snap Percentage and Snap Tangent - Snap Percentage.
- Added state checkmarks to the statusbar context menus for units settings.
- Fixed Snap Perpendicular - Snap Tangent combinations when a line is the perpendicular target.
- Standardized support for directional constraint snaps for Ellipse/EP and Leader/LE.
- Fixed constraint snaps incorrectly supporting already constrained scenarios for Ellipse/EP, Leader/LE, Rect3/R3, and DimLin/DL.
- Fixed problems in certain cases when using SQ, SI, and SR nested under SnPerp/SP.
- Fixed problems in certain cases when using SQ, SI, and SR nested under SnTangent/ST.
- Fixed a problem using Track/TK nested under certain snaps.
- Fixed a problem with incremental snaps used in conjunction with grid snaps.
- Changed incremental snaps to use standard rounding rather than rounding up.
- Stopped ribalogs from responding while the settings dialog is open.
- Fixed the reported radius and length of arcs which are invalid to be 0.0.
- Fixed Fillet/FI to match the fillet to the rubberband.
- Fixed nested transparent reference frames possibly not completely erasing.
- Fixed real world line widths in nested reference frames.

- Fixed problems with bound reference frames with relative paths when copying drawings between folders.
- Fixed font problems on bound reference frames.
- Fixed a minor UI problem with the file name in RFEEdit/RFE.
- Fixed symbol manager erroneously deleting symbol definitions in rare cases.
- Fixed SymOpen/YO to update symbol lists in SymPlace/YP and SymMgr/MGY.
- Fixed SymMgr/MGY to update symbol list in SymPlace/YP.
- Fixed SymMgr/MGY to update for certain symbol list changes.
- Added new commands to the default main menu.
- Changed Shift + Right Button on TabSys2/TB2 to be more understandable radio buttons.
- Added new Offset/OF settings to TabTools/TBW.
- Changed resource strings for SnCenter/SN to refer to Centroid rather than Center.
- Removed obsolete Largetcons from the default main drawing menu.
- Fixed the Text/TL tool which might leave ghosting onscreen with certain text strings.
- Fixed the handling of the % character in the \$ENV() substitution.
- The \$SUF() text substitution keyword now supports %% in its parameter string.
- Added tooltips to the print (FilePrint/PR), YS, YV, Custom Shortcuts, and attribute dialogs.
- Added tooltips and fixed bugs in the PDF Custom Paper Size dialog.
- Fixed a minor tooltip problem on Symbol Manager, SymMgr/MGY.
- Fixed a minor bug in symbol manager which could erroneously start the selection tool.
- Fixed a bug in symbol manager which could erroneously set the current symbol name to blank.
- Revised tooltips on AS, commands, and shortcuts dialogs.
- Fixed bugs and added tooltips in the margin dialogs of PDF export and Print.
- Added statistic text to WIP and changed initial column sizes.
- Fixed a minor bug on XML import of attributes.
- Added FillCh to the Draw | Fill menu.
- Fixed some of the dimension modify tools to run the selection ribalog when started without valid dimension selections.
- Changed print and PDF export dialogs to keep the "Always Center on Page" checkbox when changing scale.
- Fixed a potential crash when running under some non-English Windows systems.
- Fixed a rare crash in GCD import.
- Fixed a problem where some images may vanish after editing.
- Fixed incorrect fill color for PDF export of some reference frames.
- Fixed a crash when using clipboard copy on images.
- Fixed incorrect image display after Paste Special.
- Fixed a problem with DWG import failing to convert certain DWG reference frames to VCD.
- Fixed a problem with infinite recursion on DWG import converting certain DWG reference frames to VCD.
- Fixed a problem with infinite recursion on DWG import keeping certain DWG reference frames as DWG.
- Fixed problems with extrusions in DWG/DXF import.
- Fixed processing of Enter, Esc, and Backspace for certain ribalogs.
- Fixed scripts and the API being able to set the manual entry mode to invalid values.
- Updated OLE native command descriptions to better describe their usage.

- Added tool bitmaps for several commands.
- Fixed an error related to native MulSetApply and parameter USECURRENT.
- Fixed the parameter type on PrtPaperSize.
- Fixed some syntax in the native commands table.
- Fixed a type cast on DimTextJust.
- Fixed a deadlock which may occur when sending email from within VCADD.
- Fixed DBSet/DB ribalog for hatches between double lines.
- Fixed the Datum Edit tab on the DatumSet ribalog for settings or datum placement.
- Fixed CleanDataWnd to redraw erased entities.
- Changed the Font Manager to only list valid fonts as possible substitutes.
- Improved "file is already open" detection.
- Fixed 4 script-only point native commands to use standard (x,y) point parameter format.
- Fixed an error when importing DWG/DXF with ellipses or elliptical arcs in a block.
- Fixed MTrim/TM and MTrim1/T1 for various problems with open paths.
- Fixed all dialogs for corresponding help button support.
- Improved scale dialogs for print, PDF export, and drawing wizards.

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New Functions

- Numeric separators
 - VCGetDimDecimalSeparator
 - VCGetDimSecondaryDecimalSeparator
 - VCGetDimDecimalSeparatorString
 - VCGetDimSecondaryDecimalSeparatorString
 - VCGetDimThousandsSeparator
 - VCGetDimSecondaryThousandsSeparator
 - VCGetDimThousandsSeparatorString
 - VCGetDimSecondaryThousandsSeparatorString
 - VCSetDimDecimalSeparator
 - VCSetDimSecondaryDecimalSeparator
 - VCSetDimThousandsSeparator
 - VCSetDimSecondaryThousandsSeparator
- Text masking
 - VCGetTextMaskOffset
 - VCSetTextMaskOffset
- Text substitution
 - VCGetSubstitutedText
 - VCGetSubstitutedTextW
- Curve text
 - VCGetTextCurveKind
 - VCSetTextCurveKind
 - VCGetTextCurveReverse
 - VCSetTextCurveReverse
 - VCGetCurrentTextCurvePointCount

- VCGetCurrentTextCurvePoint
 - VCSetCurrentTextCurvePoint
 - VCSetCurrentTextCurvePoints
 - VCGetTextCurveDisplay
 - VCSetTextCurveDisplay
 - VCGetTextCurveClosed
 - VCSetTextCurveClosed
- Text word wrap
 - VCGetTextWordWrap
 - VCSetTextWordWrap
- Native command toggles
 - VCGetNativeToggleState
 - VCSetNativeToggleState
- User tool nesting
 - VCSetUserToolEx
 - VCSetUserToolsSnap
 - VCGetUserToolsSnap
 - VCSetUserToolFlags
 - VCGetUserToolFlags
 - VCSetUserToolSnapPoint
 - VCGetUserToolSnapPoint
- Line and curve parameterization
 - VCGetCurrentEntityPointAtParameterBP
 - VCGetCurrentEntitySlopeAtParameterBP
 - VCGetCurrentEntityClosestPointAndParameterBP
- Offset
 - VCGetOffsetNumSegments
 - VCSetOffsetNumSegments
- Selection filter
 - VCGetFilterRealWidth
 - VCSetFilterRealWidth
 - VCGetFilterMultiKinds
 - VCSetFilterMultiKinds
 - VCGetFilterMultiKindsString
 - VCSetFilterMultiKindsString
- Preview color
 - VCGetSnapPreviewColor
 - VCSetSnapPreviewColor
- Centroid and area
 - VCGetCurrentEntityCentroidAndArea
- Angular dimensions
 - VCAddAngularDimensionEntityEx
- DWG/DXF import
 - VCGetNotImportXref
 - VCSetNotImportXref

- Fence selection
 - VCSelectFence
- Mouse processing
 - VCGetPendingLButtonDown
- PDF Export
 - VCGetPDFExportFilename
- Leaders
 - VCGetLeaderTabStops
 - VCSetLeaderTabStops
- Symbols
 - VCGetSymbolBreakColor
 - VCSetSymbolBreakColor
- Print presets
 - VCGetCopyPrintPreset

Fixes & Corrections

- Improved buffer size checking for API functions which return Unicode strings.
- Stubbed out obsolete API functions VCGetSavePaths, VCSetSavePaths, VCMeasureAngle2, VCMeasureAngle3, and VCMeasureAngleRibalog.
- Fixed a typo which caused VCGet/SetPrintPresetLW0HasWidth() and native command PrtLW0HasWid to not work.