

What's New, SR7 (14-Dec-2009)

New Features:

- **Save:** Option to save backup file has been added to the Files tab of Options.

Bug Fixes:

- **BoxEdit** crash fixed.
- Crash in Brazil material dragging has been fixed.
- Crash saving to **Z-Corp** file has been fixed.
- **Dim:** A rounding error has been fixed.
- **Display/Bongo:** Bongo preview mode did not display at the correct position when they transformed. This is fixed.
- **Display** crash fixed.
- **Drag & Drop** dialog incorrectly did not come to the top. This is fixed.
- **EditScript** crash fixed.
- **Export** crash fixed.
- **ExtrudeCrvTapered** crash fixed.
- **Fillet:** A failure bug when filleting between arcs and lines has been fixed.
- **Import:FBX** crash fixed.
- **Import** crash fixed.
- **Installer:** SketchUp import did not work properly. This is fixed.
- **Loft** command crash fixed.
- **Loft** crash fixed.
- **MatchSrf** command crash fixed.
- **Move** command crash fixed.
- **Offset** crash fixed.
- **Open:DWG/DXF** crash fixed.
- **Open:DWG/DXF:** A crash involving importing duplicate linetypes has been fixed.
- **Open:DWG/DXF:** A problem where some objects were missing in the file has been fixed.
- **Open:DWG/DXF:** Importing a revolved solid did not work properly. This is fixed.
- **Open:SolidWorks:** A crash when selecting an assembly has been fixed.
- **Open:SolidWorks:** A failure bug has been fixed.
- **Open:SolidWorks:** A problem opening read-only files (such as those downloaded from email or CD) has been fixed.
- **Open** crash fixed.
- **Open** crash fixed.
- **Open** crash fixed.
- **Pan** command crash fixed.
- PointDeviation did not properly update when control points were nudged. This is fixed.
- **PolylineOnMesh:** A crash when picking the mesh in Windows 2000 has been fixed.
- **RemoveEdge** crash fixed.
- **Rib** command crash fixed.
- **RunScript** crash fixed.
- **Safe mode:** CommandHelp is now turned off when running Rhino in safe mode.

- **Save:OBJ** crash fixed.
- **Save:** Rhino now creates a .bak file when a model is saved.
- **Section:** A failure with planar object bounding boxes has been fixed.
- **Select** crash fixed.
- **Select** crash fixed.
- **SetMaximizedViewport** crash fixed.
- **SetView** did not properly update the viewport projection when setting to perspective. This is fixed.
- **Smash** crash fixed.
- **Split** command crash fixed.
- **Split** command crash fixed.
- **Split** crash fixed.
- **Split:** When splitting a surface, the resulting bits did not have the same u-and v-directions as the original surface. This is fixed.
- **Trim** command crash fixed.
- **Trim** crash fixed.
- **Unweld** crash fixed.

What's New, SR6 (9-Jul-2009)

[\(Printer Friendly\)](#)

Enhanced Features:

- **Block:** A warning about blocks with no geometry as been added.
- **Open:** A confirmation message now appears on the command line.
- **Save:STL - *Interface change:*** The options and prompts for a scripted export of file formats that use the STL mesh setting have been changed to more closely resemble the settings of the Mesh command.

Bug Fixes:

- **BlockManager:** Hidden blocks (with * prefix in the name) did not display correctly. This is fixed.
- **BooleanUnion** crash fixed.
- **BoxEdit** crash fixed.
- **Circle** crash fixed.
- **Circle** crash fixed.
- **Close Rhino** crash has been fixed.
- **CopyViewportToDetail** faieds after the first time the command is run. This is fixed.
- **Dim:** The hyphen between feet and inches sometimes did not display. This is fixed.
- **DimAngle** crash fixed.
- **DocumentProperties, Render:** The Lock viewport aspect ration was incorrectly not maintained after closing the dialog box. This is fixed.
- **EdgeSrf** crash fixed.
- **EditPtOn** crash fixed.
- **ExtrudeSrfTapered:** Failure bug fixed.
- **Flow** command crash fixed.
- **Insert:** A problem with creating layers after the insertion was canceled has been fixed.

- **Installer:** A file required for ZPR export was not being installed. This is fixed.
- **Installers:** Level I and Level II Training Guides now have installers.
- **InterpCrvOnSrf** command crash fixed.
- **InterpCrvOnSrf** crash fixed.
- **Intersect** crash fixed.
- **Linetypes:** The Document Properties Linetype scale incorrectly allowed 0 as a value. This disabled linetypes. This is fixed.
- **Loft** command crash fixed.
- **Loft** crash fixed.
- **Loft** crash fixed.
- **Loft** crash fixed.
- **Loft** crash fixed.
- **Loft:** Several bugs that caused an incorrect surface have been fixed.
- **MacroEditor:** A problem with focus to the command line has been fixed.
- **Offset** crash fixed.
- **OffsetSrf** crash fixed.
- **OffsetSrf** crash fixed.
- **Open:DWG/DXF:** A problem opening DXF files has been fixed.
- **Open:DWG:** Splines did not read properly. This is fixed.
- **Open:IGES** crash fixed.
- **Open:OBJ:** Files imported from topmod3D had some gaps. This is fixed.
- **Open:OBJ:** OBJ data was not read correctly by Service Release 5b. This is fixed.
- **Open:SKP:** An import error has been fixed.
- **Open:SolidWorks** crash fixed.
- **Open:STEP** crash fixed.
- **Open** crash fixed.
- **Options, Appearance:** The **Full path in titlebar** option did not work properly. This is fixed.
- **Options, Appearance, Advanced Settings:** The **Export** button was incorrectly available even when no scheme is selected for export. This is fixed.
- **PanelingTools:** Several crashes fixed.
- **Panelling Tools:** Crash fixed.
- **Patch** crash fixed.
- **PointDeviation:** The Apply button did not work correctly. This is fixed.
- **Polygon** crash fixed.
- **Polygon** crash fixed.
- **Polyline** crash fixed.
- **Print** crash fixed.
- **Properties: Text** crash fixed.
- **Rectangle** crash fixed.
- **Reparameterize** crash fixed.
- **RhinoScript:** The RhinoScript page of Options incorrectly allowed the same script file to be added more than once to the list of files to load at startup.
- **Save:3DS:** A problem with importing and exporting has been fixed.
- **Save:DWG/DXF:** Support for exporting **ACIS** solids has been added. Create or edit a named export scheme, and change the export option for Rhino surfaces to AutoCAD Solids.

- **SaveAs** crash fixed.
 - **Scale1D** did not properly update CurvatureAnalysis colors. This is fixed.
 - **ScaleEdge** crash fixed.
 - **SelBlockInstanceNamed** crash fixed.
 - **ShortCurves** plugin crash fixed.
 - **Starting Rhino on Vista Improved:** previous releases of Rhino 4.0 sometimes would only start when run as Administrator. SR6 should start without administrator permissions.
 - **Toolbar:** Graphic images were garbled when toolbar was imported. This is fixed.
 - **TriangulateNonPlanarQuads:** A problem with the selection calculation has been fixed.
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What's New, SR5b (26-Feb-2009)

[\(Printer Friendly\)](#)

New Features:

- **RhinoScript:** Now supports Layer state management.

Bug Fixes:

- **AlignMeshVertices:** Pressing **Esc** incorrectly completed the command instead of exiting. This is fixed.
 - **Circle:** Crash with SmartTrack fixed.
 - **Extend:** Crash fixed.
 - **Import:STEP:** Crash when file contains extra periods has been fixed.
 - **Installer:** Crash on startup fixed.
 - **Offset:** Crash fixed.
 - **Open:DWG/DXF:** A problem importing regions has been fixed.
 - **Open** crash fixed.
 - **PlayAnimation:** Crash fixed.
 - **Project** crash fixed.
 - **RemoveEdge:** Crash fixed.
 - **SaveAs** crash fixed.
 - **Split** crash fixed.
 - **Trim** crash fixed.
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What's New, SR5 (26-Jan-2009)

[\(Printer Friendly\)](#)

Enhanced Features:

- **Cap:** The Cap command now provides more useful information when it fails to cap a hole.
- **RecordAnimation:** RenderFull method can now be canceled with the **Esc** key.
- **RoundHole:** The Radius option now gets the keyboard input by default.

Bug Fixes:

- **4View** crash fixed.
- **Align** crash fixed.
- **ArrayPolar:** Input angle sometimes overshot. This is fixed.
- **BackgroundBitmap** crash fixed.
- **Block:** When a block with surfaces is mirrored and exploded, the surfaces had their normals

incorrectly flipped. This is fixed.

- **Circle** crash fixed.
- **Context menu**: The **Repeat** menu item did not work. This is fixed.
- Crashes fixed:
 - Close without saving
 - CurveThroughPt
 - Import
 - FilletEdge
 - New
 - Open
 - Open:OBJ
 - Rebuild
 - Reparameterize
 - SplitMeshWithCurve
 - Trim
 - Sweep 1
 - Zoom
- **Curve** crash fixed.
- **DocumentProperties**: Importing default **dimension styles** did not work properly. This is fixed.
- **DWG import** crash fixed.
- **DWG Import** now correctly reads files with text and annotations containing special characters such as %%d (degree symbol), %%p (plus/minus symbol), etc.
- **ExtractPt** crash fixed.
- **ExtrudeSrfTapered**: Surfaces made by the PlanarSrf command may not work properly when they are used as the input surface for this command. This is fixed.
- **Join** crash fixed.
- **MacroEditor** command now has a scroll bar to make it easier to edit macros that are longer than the window can display.
- **MoveCrv**: History did not work properly with the MoveCrv command. This is fixed.
- **MoveUVN - Interface change**: The way it used to work was you had to turn all the surface control points off and back on and then select them to get MoveUVN to recalculate the vector directions. Now, you only have to deselect the control points and reselect them to get a new vector direction calculation.
- **Offset**: Inputting the wrong geometry type (polysurface face) locked Rhino. This is fixed.
- **Open:DWG** crash fixed.
- **Open:OBJ**: Texture controls were incorrectly disabled. This is fixed.
- **Open:PDF**: CS4 (Adobe Illustrator files (.ai) written by the latest CS 4 version of AI) files did not open properly. This is fixed.
- **Open:SolidWorks**: Several problems reading SolidWorks files have been fixed.
- **Open** crash fixed.
- **Open** crash fixed.
- **Options** crash fixed.
- **Pipe** command incorrectly created pipes twice the diameter expected when using Diameter mode and picking the diameter point with object snaps enabled.
- **PointCloud**: When points were deleted from the pointcloud, the pointcloud's bounding box did not update. This is fixed.

- **Polyline** crash fixed.
- **Print**: A problem printing to Adobe **PDF** files has been fixed.
- **Project**: Projecting a line to a planar surface incorrectly created a cubic line instead of a line. It now creates either a line or a degree 2 single span NURBS curve.
- **Rectangle** crash fixed.
- **Render** crash closing render window fixed.
- **Render** crash on cancel fixed.
- **RenderPreview** crash fixed.
- **Reparameterize** crash fixed.
- **Revolve** crash revolving a closed curve fixed.
- **Revolve**: A failure bug when revolving closed polylines has been fixed.
- **RhinoScript**: Cancelling a script could leave objects highlighted even though they were no longer selected. This is fixed.
- **Save:DWG/DXF**: Multi-line text exported with wrong vertical position. This is fixed.
- **Save:DWG**: Exporting a file with **layouts** did not work properly with "2004 Natural" export. This is fixed.
- **Save:DWG: Leader** lines did not export properly to DWG. This is fixed.
- **Save:STEP**: A problem exporting planar surfaces has been fixed.
- **Save:STEP**: A failure bug exporting to UG and SolidWorks has been fixed.
- **SetPt** no longer transforms text objects that have their control points turned off.
- **SketchUP Import**: fixed a crash opening SketchUP Version 7 files.
- **SmartTrack**: Did not always snap to all ortho directions from the smart point. This is fixed.
- **Smash** crash fixed.
- **Solidworks** import crash fixed.
- **Sweep2**: Canceling an AddSlash operation caused the rails to become unselectable for another AddSlash operation. This is fixed.
- **Toolbars** crash fixed.
- **UnrollSrf**: A failure bug was fixed.
- **UnrollSrf**: The border of an unrolled surface could not be joined. This is fixed.
- **Volume** crash fixed.
- **VRML** import crash fixed.
- **WebBrowser**: The command makes an attempt to open the desired page in a new tab or window.
- **Zoom** crash fixed.