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# 2010 Release Notes

## *New Features for SolidView 2010*

### PERFORMANCE

- **Faster File Loading** – Loads STL files twice as fast as earlier versions of SolidView.
- **Windows 7 and Vista Compatible** – SolidView 2010 is built to take advantage of Windows 7 and Vista platforms.
- **Easy Network Licensing** – The simple format no longer requires users to set permissions on folders and similar documents.

### NEW SOLIDVIEW DOCUMENT (SVD) FILE FORMAT

- **File attachments** - Attach any type of Windows file to a SolidView document, including images, project data, video and sound to make a complete design document.
- **Scenes** – (SV/Pro & Pro RP only) Allows users to create a 3D slide-show that can be saved in a SolidView document (SVD File). Entire design reviews, concept proposals, assembly instructions, and other engineering documents can be encapsulated in one file that can also be viewed and measured with SolidView/Lite.
- **Free SolidView/Lite Viewer** - SolidView/Lite reads SVD, STL, VRML and SolidWorks parts and assemblies and it allows for measuring SVD files. SolidView/Pro users can create SVD files that can be sent to others who only need SolidView/Lite to view and measure the SVD file.
- **Auto Document** – This feature instantly documents a full assembly by automatically generating a SolidView Scene with measure object for each part loaded into SolidView.

### VIEWING

- **Rotate About** – Allows the user to set the image view rotation point to any point on an object.
- **3D Print to Scale** – Print 3D models at a specific scale. Complex designs can be printed at 1:1 scale for design reviews and visualization studies.
- **Integrated 2D/3D Viewer** - SolidView displays 2D raster and vector images as annotations in the 3D model. Users can view existing images or drawings alongside the 3D CAD data to highlight a design issue or feature.

## MEASURING

- **More Measurement Options** – New tools for measuring distance, angles, thickness, faces, arcs, cylinders and spheres are supported for greater functionality. Virtually any 3D design feature can be measured helping eliminate the need for complex and expensive 2D drawings.
- **Pick Assistant** – Select various geometric entities for measurements including points, lines and planes. Users can take measurements that are difficult or impossible to make with any other viewer.
- **Units Management** – Users can work in their preferred units regardless of the file units. With this feature, users specify a default unit of inches or mm. Warnings are issued if files are loaded that may not be in their default units.

## MARKUPS

- **Scene Modification** – Attachments and jumps can now be added to individual scenes.
- **Annotation Properties** – Colors, fonts, rich text and other attributes can be set on measurements and annotations. Now dimensions and annotations can be adjusted to meet specifications.

## TOOLS

- **Verify** – (SV/Pro & Pro RP only) Check for STL files errors.
- **Mold Analysis** – (SV/Pro & Pro RP only) Quickly identifies the core, cavity, parting line, and any undercuts so users can identify potential problems and estimate the cost of producing tooling for a 3D design.
- **STL File Repair** – (SV/Pro RP only) Greatly improved verify and repair functions identify and fix common STL file problems. While the STL Verify function tests the STL file integrity, STL Repair fixes file problems such as small gaps, incorrect triangle normals, multiple shells, and misaligned triangle vertices.
- **New Compound Cutting** – (SV/Pro RP only) New dynamic cutting capabilities allow users to make multiple cuts in one operation. Users can create zig-zag, square tooth, dove tail, and free form cuts so parts can be assembled more accurately. Drain holes and vents can also be added to objects.
- **STL File Cutting** – (SV/Pro RP only) Sections a single STL file into multiple STL files, allowing large parts to be built in multiple pieces.
- **Shelling** – (SV/Pro RP only) The shell function quickly creates hollow parts from solid geometry.
- **Offset** – (SV/Pro RP only) Add offset geometry to faces, surfaces, triangles, shells and objects. This improved feature allows material to be added to selected areas of a part for machining surfaces or chemical etching.
- **Automatic & Manual RP Part Layout** – (SV/Pro RP only) Quickly create optimized rapid prototyping builds.
- **Z Correction** – (SV/Pro RP only) Modifies STL files to prevent “print through” errors in some rapid prototyping technologies and improve prototype accuracy.

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## USER INTERFACE

- **Ribbon interface** – New sophisticated Ribbon Toolbars provide instant access to popular viewing, measuring and markup features.
- **Optional Classic Interface** – Toggle easily between the new Ribbon interface and classic SolidView interface.
- **Active Dialog Tabs** – Easily move from one function to another while keeping existing active dialogs open.
- **Quick Launch Toolbar** – A customizable toolbar that allows users to place frequently used functions in an easy to access location.
- **New Keyboard & Mouse Shortcuts** – Quickly navigate and select tools with the touch of a button. With selective zoom capabilities and many keyboard shortcuts, save valuable time and experience increased control for better part manipulation.
- **Context Sensitive Help** – Instructive text and videos explain processes to increase user comprehension without formal training. By clicking on the help button or pressing F1 the user can display help on the specific function being used, including watching embedded video tutorials for many operations.
- **Enhanced Undo, Redo Capabilities** – Improved undo and redo on every action taken and never lose your work again.
- **Advanced Assembly Tree** – Arranging and organizing parts with the latest Advanced Assembly Tree gives you total control of your parts and project.
- **Custom Cursor/Smart Icons** – These tools have become more intuitive with the operation you are performing, providing the most advanced capabilities for the task at hand.
- **Auto Hide Dialogs** – Dialogs can be set to automatically “hide” when not needed providing full screen viewing.

## FILE FORMATS

- **New Support Now Available** – SolidWorks 2010 as well as upgraded optional CAD interfaces to support UG NX6, ACIS V20 and Parasolid V19.1. SolidView/Pro 2010 continues to support STL, SolidWorks, VRML, DWG, DXF and other popular 2D vector and raster formats, as well as add-on interfaces for Catia, Pro/E, STEP, IGES, SDRC, SolidWorks Geometry and SolidEdge.
- **SFX Support** – SFX files from earlier versions of SolidView can still be imported into SolidView 2010.