Autodesk® Revit® MEP 2013

This document was last updated on March 22th, 2012.

The following are Known Issues with this release:

Assemblies

- When an assembly view is rotated, the crop region does not rotate and update to the new orientation of geometry.
- When views are transferred using the Acquire Views command, tags or dimensions may be lost, and annotations may shift unexpectedly.

Conceptual Modeling

- If you reload a repeated adaptive component after changing its adaptive point numbering, the model may not update correctly.
- Attempts to divide ellipses, partial ellipses, Bezier splines or Hermite splines by segment length may result in an error.
- The Repeat tool cannot be used for
    - Repeating adaptive components to create forms (lofts, for example)
    - Rehosting of adaptive components or specific points of adaptive components
    - Repeating a one-point adaptive component that was originally loaded with no adaptive points
    - Repeating an adaptive component that contains shape handle points

Divided Curves

- Dividing paths by chord length may degrade performance.
- Paths cannot be divided by intersecting curves drawn on the reference planes that are available for divided surfaces.

Display

- Performance degrades when one of the sky options is specified for the background style in elevation, section, or 3D views. These options are intended for use in presentation graphics, and are not recommended when creating or modifying Revit elements.
- A printout of a view that uses a background image may not be consistent in appearance with the print preview or with the actual view in Revit.
- Unwanted artifacts may display in views using the Realistic visual style when Photographic Exposure is enabled (in the Graphic Display Options dialog accessed from the Properties palette). This situation typically occurs after zooming/panning with the

mouse scroll wheel in a 3D view and is more likely if Use Anti-Aliasing is selected on the Graphics tab of the Options dialog accessed from the Application menu. To reduce artifacts, clear the Enabled check box for the Photographic Exposure option, or press F5 to refresh the view. Clearing the Use Anti-Aliasing option also should remove some artifacts.

- Views using the Realistic visual style will not appear the same when printed if the Photographic Exposure is enabled (in the Graphic Display Options dialog accessed from the Properties palette). To view the same printed image in the drawing area, clear the Enabled check box for the Photographic Exposure option.
- Enabling anti-aliasing in conjunction with transparency may result in undesired effects, which may be magnified when transparency is applied to an entire view. These effects are reduced when transparency is applied to an individual element.
- MEP centerlines viewed with no graphics card enabled can cause severe performance degradations. Disabling MEP algorithms in the Mechanical/Electrical settings dialog will restore performance.
- Hardware acceleration is not available in the Parallels 7 environment, and Revit will revert to a DirectX 9 based software graphics mode, which will not render materials, sky, artificial lights, and other features when the Realistic visual style is in effect.
    - Workaround 1: When you first start Revit and see the Graphics Options - Cannot Use Hardware Acceleration dialog, select the Save Hardware Acceleration Setting option, and then close and restart Revit. Upon restart, DirectX 11 software mode will be used and features will display correctly in Realistic visual style.
    - Workaround 2: Manually add the following to the [Graphics] section of the Revit.ini file before startup: UseGraphicsHardware=0

Help

- For some add-ins, the F1 key and the Help button access the 2012 WikiHelp instead of the 2013 WikiHelp.

Import/Export/Link DGN/DWG/DXF

- Smart solids, bspline surfaces, cones, and solids will not be included when importing DGN files to Revit.
- Materials are not imported to Revit which will impact the display of the imported file.
- Model elements cannot be exported to DGN from 3D views.
- Importing DGN files may cause noticeable slowdowns.
- RPC content in realistic visual style views will not export to DWG. Use a non-realistic visual style when exporting RPC content to DWG.
- Using imported DWG files within nested families may cause noticeable increase to the project file size.
- Filled region overlapped by a ceiling grid may not export the ceiling grid correctly to DWG. Setting the filled region's Background parameter to Opaque before exporting the view to DWG format will improve the export results.
- Exporting views and elements with transparency enabled may create hatch surfaces on the elements for which the transparency parameter enabled.

- In order to get structural interoperability with AutoCAD Architecture and AutoCAD MEP, the following section must be added to the Revit.ini file:
  [Export]
  ExportACAObjects=1
  Note: This change to Revit.ini applies to Revit Structure and Revit.
- The AutoCAD Drawing View object does not import into Revit.
- If the first DXF import within a Revit session aborts, a crash may occur during a second DXF import.

Materials

- If you add a structural or architectural column, change the type, and then add another column, the second column will use the material from the first column.
- The shade color in some upgraded materials may be set to 0,0,0 (black).

MEP

- When you upgrade a project that has tags on a multi-section duct/pipe element divided by taps, the original tag value will be replaced by "Multiple Values" as the tags cannot show the exact values of for the sections.
- When a multi-section duct/pipe element is inspected, the whole element is highlighted, rather than a single section being highlighted.
- No ASHRAE table selection is currently available for duct taps.
- Cross hairs and the centerlines of fittings cannot be snapped to when using centerlines for dimensioning.

Ray Trace Rendering

- Custom material that is mapped with a special accented character in its file path of is lost in Ray Trace rendering. Removing the accented character from the file path will restore the material.
- After turning off Hardware Acceleration, you need to restart Revit to avoid crashes when attempting to use Ray Trace Rendering functionality.
- Ray Trace Rendering functionality is disabled in 32-bit versions of Revit due to performance degradations. To use Ray Trace Rendering functionality, you need to install Revit on a 64-bit operating system.
- While Ray Trace Rendering mode is in effect, shadows can appear too dark if the background is set to Gradient or None. To achieve a more accurate color for shadows, set the background to Sky.
- In Ray Trace Rendering mode, navigation buttons on the SpacePilot Pro, SpaceMouse Pro, and SpaceExplorer devices (such as TOP, RIGHT, and others) will not be operational until you click in the viewport with a 2D mouse.
- In Ray Trace Rendering mode, unexpected artifacts may display when an interior scene with both artificial and sun lighting schemes is rendered. The artifacts are amplified with

more artificial lights in the scene. For better results, use lighting schemes that are either artificial only or sun only.

RPC Display

- RPC content will display a double of the intended image in the Realistic visual style if the Cast Reflections type parameter is turned on. Turn this parameter off to provide the proper display of RPC content.
- Using many RPC elements (trees, entourage, people) in a scene will degrade performance when the Realistic visual style is in effect. Either use a different visual style or turn off the relevant RPC element categories.

Stairs and Railing

- Changing the temporary dimension value of a stair run does not change the run's actual length and width.
- The middle support on an L-shape or U-shape winder stair may be deleted when converting from component-based run to sketch-based run.
- The Stair cut pattern does not display correctly as assigned in the material cut pattern after joining the stair with floor
- The middle support of a component-based stair does not display in a ceiling plan view.
- After changing stair type from an assembled stair to a cast-in-place or precast stair in stair edit mode, the Revit user interface may lock up when you click OK. Switch the active window to another application and then back to Revit to enable the user interface controls.
- When dragging the stair path end control (in stair edit mode) press the Shift key to constrain the path to the horizontal or vertical axis.
- The stair path is not automatically created for a multistory stair except for the base level. Use the Stair path tool to add the stair path to additional plan views.
- The top rail may not display or may partly display in a 3D view with the hidden line or wireframe visual style if the railing is placed on spiral run.
- When you upgrade a project from a previous release, the new continuous rail (top rail and hand rail) parameters may not display in the railing type property dialog. Duplicate the existing railing type and the new rail parameters will be available in the duplicated railing type.

Worksharing/ Revit Server

- Revit Server Administrator keyboard shortcuts do not function correctly in Internet Explorer 9. Instead, use the graphical user interface or use a different version of IE.
- Revit will appear to ignore the command when a user attempts to create a local copy of a server-based central model while an administrator level lock is present.
- When Revit does not successfully connect to Revit Server and browsing the Revit Server .svc files in IIS Manager yields an error whose likely cause is reported to be “Managed handler is used; however, ASP.NET is not installed or is not installed completely,” the

.NET 4.0 may need to be repaired through the control panel. This can occur in some circumstances when .NET is installed separately prior to the installation of Revit Server. This issue does not apply to systems where .NET is installed by the Revit Server installer framework.

Disclaimer

THIS PUBLICATION AND THE INFORMATION CONTAINED HEREIN IS MADE AVAILABLE BY AUTODESK, INC. "AS IS." AUTODESK, INC. DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE REGARDING THESE MATERIALS.

Published by:
Autodesk, Inc.
111 McInnis Parkway
San Rafael, CA 94903, USA