

Update Enhancement List

Improvements made in Update 1 build (20100614_2115):

Autodesk® Revit® MEP 2011 Enhancements

- Improves stability of the Location dialog.
- Improves performance of panel schedule views.
- Allows Calculated Values to be added to Load Summary section in panel schedule templates.
- Improves display of panel schedule borders.
- Improves the stability of distribution systems that use a L-G Voltage value of None.
- Enables Slope and Justification editors for layouts that include duct and pipe accessories.
- Enables Copy/Move/Array tools for layouts with sloped and non-sloped pipes.
- Improves sizing when a round takeoff is connected to a rectangular duct.
- Improves stability when changing the location setting for heating and cooling load calculation in worksharing.
- Improves stability when connecting conduit to equipment surface.
- Improves surface connection between different design options.
- Improves cable tray bend radius control.
- Improves temp dimension witness line snapping in surface connection edit mode.
- Improves converting cable tray tee to cross.
- Improves stability when drawing a cable tray from equipment.
- Improves stability when editing type properties of electrical equipment.
- Disables the Modeless Properties Dialog when a value is changed in the Type Selector to avoid confusion or an incorrect property change.
- Updates the pressure drop calculations through a transition using the coefficient loss method when reporting the static pressure on systems.
- Improves Move functionality to allow the user to select different views without having to reselect elements.
- Improves Move and Copy functionality to allow the user to move/copy at any angle when an elbow fitting is included in the selected elements.
- Improves Move and Copy functionality during movement in 3D views.
- Improves Move and Copy functionality to maintain depth when used in elevation or section views.
- Improves Rotation functionality to allow the rotation of sprinklers in elevation views.
- Disables disconnect warnings when drawing round duct from a rectangular duct using the tap fitting “Tap-Perpendicular”.
- Ensures the direction of the connector on Air Terminals is verified for the proper orientation of the Air Terminal.

Autodesk® Revit® Platform 2011 Enhancements

- The [list of supported video cards and drivers](#) has been updated.
- Improves stability in working with families.
- Improves stability when deleting views.

Autodesk® Revit® Architecture 2010 Update Enhancement List

- Improves stability when export to gbXML.
- Improves stability when view "Analytical Surfaces" in the Export gbXML dialog.
- Correct export of embedded curtain walls to gbXML.
- Improves stability when export to DWG.
- Improves stability when export a split view with shared coordinates to DWG.
- Respects crop region with blocks when exported to DWG in wireframe visual style.
- Correct placement of annotation when exported to DWG.
- Improves stability when Export to DWF.
- Improves stability and performance when working in the Materials dialog.
- Improves IFC import to display a warning when encountering a geometry issue that would have previously caused instability in some cases.
- Improves Properties Palette and canvas interaction that caused unstable graphics if family regenerations were interrupted.
- Updates to placed instances will now occur when reloading a Family Parameter into project environment as a Reporting Parameter.
- Improves In Canvas Parameter Labeling to allow a Reporting Parameter to be created when an Instance or Type Parameter could not be.
- Disables Reporting Parameters between In Place Families and Reference geometry.
- Correct parameter names display within the Decal Dialog.
- Improves consistency between Revit and Max when exporting lights with IES files via FBX.
- Restored custom quality setting that controls number of refractions in a rendering.
- Improves the performance when adjusting the exposure of a rendered image.
- Improves issues encountered when rendering elements with different phase settings.
- Repairs upgrade issue with certain light fixtures using IES files.
- Repairs printing issue where Scope Boxes from Linked files were visible despite Print settings turning them off.
- Ensures correct orientation of Elevation tags when tag family is edited.
- Improves stability when switching among the tabs in RVT Links Display Settings.
- Improves stability when ungrouping arrayed elements.
- Improves Filter Rules.

Autodesk® Revit® 2011 API Enhancements

- Elements will now be properly joined when the ExternalCommand concludes when using automatic regeneration and automatic transaction
- ExportImage(ImageExportOptions) no longer throws an exception when given a set of views
- ElementParameterFilters now operate properly against ElementType elements
- Improves stability when saving a family and there are event subscribers for Save or Save As.
- Closes the Family editor environment after loading a family via the API
- Improves stability when using selection APIs to pick grid elements.
- Dynamic Model Update: GetChangeTypeGeometry() now triggers properly when active type is changed
- Improves stability for Dynamic Model Update: when registering updaters and more than one application is registered

Autodesk® Revit® Architecture 2010 Update Enhancement List

- The new API `SunAndShadowSettings.CalculateTimeZone()` uses Revit's mechanism to calculate the time zone value for a given latitude and longitude. This calculation is more accurate than the results obtained from `City.TimeZone`.
- Improves performance of display of Analysis Visualization framework when Hardware Acceleration is on.
- VSTA is now allowed for multiple concurrent sessions of Revit; editing the same module by two sessions is prohibited
- VSTA: Document-level macros no longer become corrupted when the document is workshared and the macro is edited by more than one concurrent session
- Improves stability when calls to `NewFamilyDocument()` and `PickObjects()` are used in sequence
- VSTA: Revit no longer prematurely exits when opening a project containing corrupted macros
- The Idling event no longer generates a journal comment for each invocation
- MEP API: New API `ElectricalSystem.CircuitType` identifies the type of an electrical circuit (circuit, spare or space)
- MEP API: `ElectricalSystem.AddToCircuit` now throws an exception when the system is a spare or space circuit
- MEP API: `Autodesk.Revit.DB.Domain` adds a new enum for cable tray & conduit

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