

# Update Enhancement List

## Improvements made in Update 2 build (20100903 2115):

### Autodesk® Revit® MEP 2011 Enhancements

- The [list of supported video cards and drivers](#) has been updated.
- Improves stability when opening a recovery file.
- Improves the selection of the proper fire damper size when inserted into an oval duct.
- Remembers the last justification when adding duct from the draw duct option within the right click menu.
- Corrects the creation of a small duct segment when a reducer is inserted due to a change in duct size.
- Improves stability when dragging a duct end to the connection point of hosted equipment.
- Improves the automatic joining of Cabletrays.
- Corrects the value produced for a calculated value column within Panel Schedules and Demand Factors.
- Allows the load value of a spare within a panel schedule to be editable.
- Corrects the display of Wire Size and Type properties to be “—” for spares in panel schedule.
- Corrects the unit formatting of cells within the Load Summary of a Panel Schedule.
- Corrects the display of circuit number on wire tag when using circuit naming By Phase.
- Improves snapping an adapter to sprinklers when inserted from the project browser.
- Corrects the Air Changes per Hour calculation when running a heating cooling load analysis.
- Improves the connections produced by Routing Solution layouts of pipe or duct.
- Improves consistency of adding pipe, duct, conduit and cabletray when snapping to non-MEP elements.

### Autodesk® Revit® Platform 2011 Enhancements

- Improves stability when locking of constraints within families.
- Improves stability when modifying the properties of an element.
- Ensures ‘Select All Instances’ when used on viewports within a sheet does select all the viewports.
- Improves stability when using the “Create Form” tool when In-Place edit a mass.
- Improves stability when using “Complex” complexity mode during gbXML Export.
- Corrects glazing area when using “Simple” complexity mode during gbXML Export.
- Improves stability when editing element Phase inside a group.
- Improves consistency of the ifcflowsegment and ifcflowfitting properties during a re-export to IFC.
- Improves stability when exporting to AutoCad 2000 DWG files.
- Improves stability during export to DWG files when exporting a view with a linked DWG in "new layers for overrides" mode.
- Improves stability after switching location within the InfoCenter settings
- Improves stability of InfoCenter when logged into Revit with a double byte username.
- Improves stability when selecting materials from within the materials dialog.
- Improves stability when switching between views

## Autodesk® Revit® Architecture 2010 Update Enhancement List

- Improves visibility of manually applied hidden lines during printing and exporting of Structural Hidden Lines views.
- Improves performance when using spinner control in the Decal Types dialog.
- Improves stability when selecting array elements from within the Reveal Hidden Elements display mode.
- Improves stability when finishing Sketch mode.
- Improves stability when selecting a reference plane within the conceptual mass editor.
- Improves stability when launching multiple sessions of Revit.
- Corrects shadow casting of linked RVT files when in realistic display mode.
- Improves stability when dragging sun.
- Improves stability when upgrading Revit 2010 project file.
- Corrects color of masked regions when rendered in Consistent Color display mode.

## Autodesk® Revit® 2011 API Enhancements

- Setting formula for Manufacturer/Type Comments as string no longer throws an exception.
- Improves consistency between User Interface and API when using Family Type count
- Improves the consistency of maintaining the preview image when Save/SaveAs.
- Improves the consistency of creating the detail curve when the view's detail sketch plane is not located where expected within the database.
- Improves detail curve creation when the view does not have an implicit sketch plane.
- MEP API: Cabletray Connector Angle property no longer throws an exception when rotating a cabletray.
- MEP API: The following Electrical Parameter Types have been exposed to DB.ParameterType:
  - CABLETRAY\_SIZE
  - LOADCLASSIFICATION
  - ELECTRICAL\_TEMPERATURE
  - ELECTRICAL\_DEMAND\_FACTOR
  - CONDUIT\_SIZE

## 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.

## Autodesk® Revit® Architecture 2010 Update Enhancement List

- 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

- Improves stability in working with families.
- Improves stability when deleting views.
- 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.

## Autodesk® Revit® Architecture 2010 Update Enhancement List

- 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
- 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

## Autodesk® Revit® Architecture 2010 Update Enhancement List

- 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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