Autodesk® Revit® MEP 2011

Autodesk® Revit® MEP 2011 Building Information Modeling (BIM) software helps mechanical, electrical and plumbing (MEP) engineers, designers and drafters gain the competitive advantage of BIM by analyzing and optimizing building systems designs before they are built. Autodesk Revit MEP helps design teams accelerate better design with tools that promote productivity and support sustainable design and analysis.

What's New

Key Features Common to All Revit® Platform Software — Autodesk® Revit® Architecture 2011, Autodesk Revit MEP 2011 and Autodesk® Revit® Structure 2011 software share a common set of key enhancements for improved design functionality and workflow to help design teams accelerate better design with tools that promote productivity and support sustainable design and analysis. See the Autodesk Revit Platform Enhancements for 2011 backgrounder for information on the platform enhancements.

Product-specific enhancements include:

- Access to Autodesk® Green Building Studio® Web-Based Energy Analysis Service (Available with Subscription to Revit MEP or AutoCAD Revit MEP Suite) — Use Green Building Studio for whole building energy, carbon and water analysis. Green Building Studio can help MEP engineers perform whole building analysis, optimize energy efficiency and work toward carbon neutrality earlier in the design process.

- Data Sharing Between Autodesk® Inventor® 2011 and Autodesk Revit MEP 2011 — To help maintain consistency between Autodesk® products, models published from Inventor now provide better visual fidelity of materials when imported into Autodesk Revit MEP. Inventor includes connector types for conduit, cable tray and oval duct to support the new Revit MEP content.

- Cable Tray and Conduit Modeling — The software provides new modeling capabilities for managing electrical and data cable trays and conduit.
  - Model with fittings or without to represent bent conduit and cable tray.
  - Schedule overall length of runs when modeling without fittings.
  - Use the new Surface connector to enable an entire surface to be connectable and help avoid placing too many conduit connectors on the equipment.
  - Change bend radius to multiple runs to create parallel runs.

- MEP Fixture Management — Automatically copy plumbing fixtures, lighting fixtures, mechanical equipment and air terminals from linked models into your model. Get notified when the items are moved or deleted, and find new items when you want to know about them.

- Electrical Panel Schedules — Create electrical panel schedules using customizable templates for consistent appearance on sheets.
  - Use templates for branch panel schedules, switchgear and data panels.
  - Gain support for international circuit naming conventions.
  - Add spares and spaces to panel schedules.

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- o Lock circuits.
- o Group circuits together.
- o Move circuits to balance loads.

- **Electrical Demand Factors** — Includes support and control of demand factors.
  - o Gain support for NEC demand factor types.
  - o Define load classifications.
  - o Load display in panel schedules.

- **Valve/Fittings in Section/Elevations/3D** — Design more accurately by modeling complex systems in section and elevation views.

- **Additional MEP Design Content** — Design flat oval duct systems, and use many new types of electrical content, such as nurse call devices, communications devices and fire safety devices.

- **Companion Flanges** — Automatically add companion flanges to flanged fittings and valves when routing flanged piping.

- **Temporary Dimensions** — Lay out or modify building services components more easily.

- **Tag Enhancements** — Tag MEP components as they are being placed to help increase productivity.

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