Productivity Tools for Mechanical & Electrical Engineers
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## Productivity Tools for Mechanical and Electrical Engineers

### MEPPP

MEPPP  

The Mechanical Electrical Plumbing Productivity Pack is the premier content pack on the market today. It was specifically designed for companies who are designing/working in both the mechanical and electrical disciplines.

### HIVE

HIVE  

HIVE is an industry leading content management system developed specifically for the AEC industry. Firms can organize, manage, set permissions and ensure the latest content is kept up to date and available for all project participants, even when working remotely.

### BIM Project Suite

BIM Project Suite  

BIM Project Suite allows Autodesk Revit users to automate routine tasks, manage large numbers of content files, generate database information and much more in a lot less time, all within the Revit environment.

### BIM Manager Suite

BIM Manager Suite  

BIM Manager Suite is intended for Autodesk Revit users that manage the company's BIM standards and project templates. The BIM Manager suite includes 10 tools, Each of which will save time and reduce errors in Revit projects.

### BIM Batch Suite

BIM Batch Suite  

BIM Batch Suite provides tools that allow Revit users to process workflows en masse, with a focus on importing and exporting data.

### BIM Data Suite

BIM Data Suite  

BIM Data Suite makes it easy to extract project data to Microsoft SQL Server or XML, allowing your team to create a myriad of reports or to integrate Revit data into your other systems.
MEP Productivity Pack

"Hosted, un-hosted, recessed, semi-recessed, surface mounted and pendant light fixtures all in a single easy-to-use Revit family."

-Daniel John Stine, AIA, CSI, CDT - BM Admin, LHB

Electrical Content

- Comprehensive family content
- Smart motor family automatically calls MOCP loads
- Parametric electrical one-line diagrams & feeder schedules in Revit
- 350+ electrical families, over 200 symbols
- Panel schedules
- Electrical settings

Mechanical Content

- 350+ mechanical families based on manufacturer content
- All family content is fully integrated with extensive schedules and tags
- 55 unique duct and pipe systems with 24 improved and additional duct and pipe types
- Cross-discipline coordination with electrical and piping using industry standard formulas
- Built-in design assist calculations for added efficiency
- Extensive content library for mechanical equipment

Mechanical Electrical Plumbing Productivity Pack Overview

- Project setup time is decreased by utilizing comprehensive project organization
- Automatically detects when elements are mistakenly placed on the wrong workset
- Hosted families have been converted to un-hosted
- 50 view templates for all view types, including schedules and 100 predefined view filters
- All family content is fully integrated with extensive schedules & tags
- Over 225 mechanical details with all Revit linework and annotations
- User manual includes links to over 7.5 hrs of instructional videos
- Built-in formulas to calculate MOCP, FLA, KVA, & more (with overrides provided for each)
- Parametric electrical one-line diagrams and feeder schedules in Revit
- 350+ electrical families with over 200 symbols
- Electrical clearance areas based on NEC guidelines
Plumbing and Piping Content

- Grouped families providing significant reduction in modeling time for plumbing layouts
- Groups have been expanded & now include attached detail groups
- Expanded content library for plumbing fixtures & drains
- Complete line of kitchen plumbing fixtures included
- Design assists scheduling to improve productivity
- Family content created to propagate CFH in gas piping systems
HIVE is a leading content management system developed specifically for the AEC industry. Firms can organize, manage, set permissions and ensure the latest content is kept up to date and available for all project participants, even when working remotely. Users can quickly find Revit, AutoCAD, PDF, images and other file types using libraries, tags, favorites and file metadata.

BIM managers can get performance metrics based on:

- Account Management
- Content Browsing
- Content Analytics
- Active Model Analytics

“...a real life saver on a few projects recently.”

- Steven A. Seibert, Advanced Engineering & Environmental Services, Inc.
CTC excels in taking care of the people who use the software. That’s what really matters.

- K.T., Autodesk Marketplace Five Star Review
BIM Project Suite assists Autodesk® Revit® users with project tasks. It includes several tools to manage large numbers of content files, generate database information and much more in a lot less time, all within the Revit environment. This robust suite of tools has been built from the ideas and real challenges of our loyal customers from all facets of the AEC industry.

BIM Project Suite is meant for everyday users of all skill levels, and is extremely useful for firms of all sizes.

FREE Tools
- Length Calculator (LC)
- BIMList (BL)
- Detail Link (DL)
- Project Link (PL)
- Quick Select (QS)
- Revit Properties (RP)
- Renumbering (R)

Source of ROI - Return on Investment Realized
- Reduce time spent on repetitive tasks such as view and sheet creation, object renumbering and revision management
- Use powerful data manipulation tools to effect change on hundreds of objects in minutes
- Easy to use analytical tools aid users with occupancy calculation, complex construction sequencing and common issues with object visibility
"I just renamed about 120 sheets and 40 views in just a few minutes with Spreadsheet Link! Awesome!"
- Scott Neumann, RSP Architects

**Room Data Sheets**
Creates sheets for rooms or spaces and places 3D, plan, elevation, section, schedule and legend views on them.

**Room Family Manager**
Defines, maintains and validates the family content of each room type definition.

**Schedule XL**
Creates schedule views from one or more worksheets in one or more spreadsheets.

**Spreadsheet Link**
Spreadsheet Link exports data from Revit elements to a spreadsheet where the data can be edited and then imported and applied back into the Revit model.

**Spreadsheet Link Express**
Reapplies mass change settings to a project using Spreadsheet Link’s calculated parameters.

**View Creator**
Enables users to quickly and consistently create views in their projects. Creates plan and RCP views by selecting combinations of levels, view templates and phases.

www.ctcsoftware.com
BIM Manager Suite has extremely powerful tools to automate many common, complex or critical tasks for Revit projects and families. This suite is aimed at BIM experts and power users whose tasks often include establishing workflows, maintaining company standards, building Revit content, maintaining company libraries, fixing problematic projects and supporting an organization’s BIM program.

Return On Investment

The tools in this suite can save several hours per week for BIM managers. Repetitive tasks such as modifying and updating families, checking dimensions, swapping and cleaning types, correcting model link paths, building shared parameters files and more are reduced from hours to minutes!

Family Tools
Deletes backup files, compares and merges shared parameter files, reports saved Revit® versions.

Family Preview Manager
This free utility sets Revit family preview images for entire libraries quickly and consistently.

Project Cleaner
Deletes views, sheets and Revit links. Lighten models from consultants before linking them into your projects.

Revision Cloud Remover
Removes non-issued revision clouds from your project. List the revision clouds in a project, including the quantity of each. Select which revision clouds to remove, or remove all of them.

Dimension Checker
Identifies dimension strings that use the dimension override options and presents the results for review. Additional filter options can be used to narrow the search results.

Family Processor
Defines one or multiple changes to one or more Revit family files, then processes those changes in batch.

“Family Processor is a wickedly cool tool.”
— Robert Beckerbauer, RDG Planning & Design
Family Checker
Reports on how well Revit families conform to standards. Identifies potential consistency and quality issues in families.

Import & Link Manager
Assists with locating and managing CAD objects within a Revit model. Find imported or linked DWG files in your Revit project. Batch change workset assignments of imports.

Schedule Parameter Resolver
Makes it fast and easy to synchronize multiple schedules by changing the parameter definitions in the schedules to match those used in the families.

Shared Parameter Manager
Reorganizes shared parameters via drag and drop, both within a single shared parameters file or between two files.

Type Swapper
Makes swapping types – and even families – a straightforward and speedy process. Discover the simplicity of identifying and deleting duplicates.
“One thing that convinced me to choose CTC’s tool is the intuitiveness of the user interface.”

-Silviu Stoian, The Beck Group

**Family Exporter**
Allows a user to select specific families to export from projects.

**Family Loader**
Automates the process of loading or reloading families into projects.

**Plotter & Exporter**
Exports projects to files or plots them to paper or PDFs with an extremely easy to use interface. Jobs can be scheduled for unattended plotting and exporting as well.

**Projects & Families Upgrader**
Upgrades multiple projects, templates and families at once, as well as migrates workshared (central) files automatically or upgrades them in place.

**Project Processor**
Applies defined changes to many project models. Changes can include renaming, swapping, purging and more based on rules.

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**BIM Batch Suite** provides tools that enable Revit users to process workflows en-masse, with a focus on importing and exporting data. No longer must a user carefully monitor or perform many common, repetitive tasks like printing to PDFs or upgrading families and projects.

Automatically open, process and save multiple models provided in a selection set, or process multiple models opened in the active Revit session. In addition to plotting drawings or exporting CAD files, rename, swap, purge and more based on rules. This powerful toolset can save hours of time for model managers when mass changes need to be made.

**Return On Investment**

- Schedule printing and exporting jobs to run periodically on multiple models
- Eliminate weeks spent doing Revit model and family upgrades
- Consistently run cleanups and prep models for transmit or archive
- Quickly collect and reload families in models
“The tools your team have created are just outstanding!”

-Tyler Buhr, HDH Architects
**BIM Data Suite** makes it easy to extract project data to Microsoft® SQL Server, JSON or XML, allowing your team to create a myriad of reports or to integrate Revit® data into your other systems. In addition, it can run silently on Revit workstations, efficiently collecting important performance data across all of your organization's models.

This powerful toolset can help you uncover long running productivity killers on Revit projects, identify training opportunities for Revit users and visualize model dynamics data in extensive graphic dashboards.

**Source of ROI - Return on Investment Realized**

- Flexible licensing & highly competitive pricing will get you up and running with lower investment than similar products
- Proactive and ongoing project analysis will enable you to make informed improvements before problems escalate
- Optimize workflows, schedule resources and identify training opportunities for future projects

“Huge fan of the tools! Everything works beautifully.”
- Rolly Stevens, Ryan A+E, Inc
In-App Screenshots