Short Circuit Your Schematics: Maximize Autodesk® AutoCAD® Electrical in Your Organization

Eric France

Solutions Consultant

@IMAGINIT_EricF





Class summary

Would you like to take hours, or even days, out of your typical schematic design process on every new project? Maximize the power of AutoCAD Electrical software in your organization by implementing a streamlined workflow using selected standard tools. In this class, we show you how to use the intelligence of a completed AutoCAD Electrical project and some subtle, yet powerful tools integral to AutoCAD Electrical, to take a new project from 0 to 90% complete in a matter of minutes. By using the power of several project-wide editing tools, we transform a completed project into a unique new project where you can cruise through the mundane changes and direct your focus to what is substantially different.

Key learning objectives

At the end of this class, you will be able to:

- Copy a completed project to create a unique new project
- Update project descriptions and other title block data across the entire drawing set
- Reformat component tags and wire numbers for the whole project
- Update descriptions and location codes for components and PLC modules in Microsoft® Excel® software



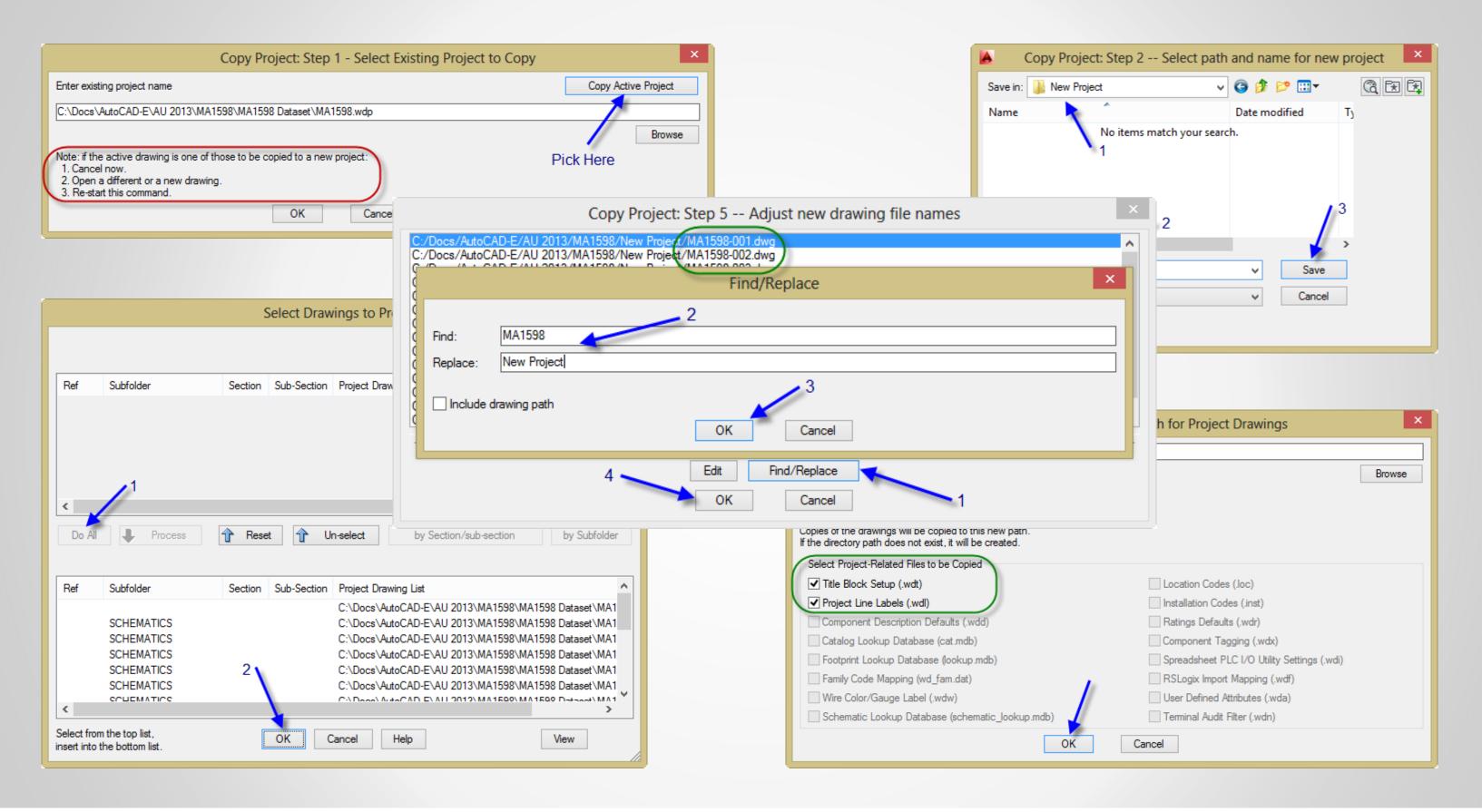
Copy a completed project to create a unique new project



Where to start

- The best place to start is with an existing AutoCAD Electrical project that has as much similarity to the project you are about to create as it can.
- Alternatively, you can use a project that is your company's "All options selected" configuration.
- Either way, starting with a project that already has AutoCAD Electrical data in it will streamline the creation of this new project







Copy Project Summary

- Select Existing Project to Copy
- > Select Path and Name for New Project
- Select Drawings to Process
- > Select Project-Related Files to be Copied
- Adjust New Drawing File Names



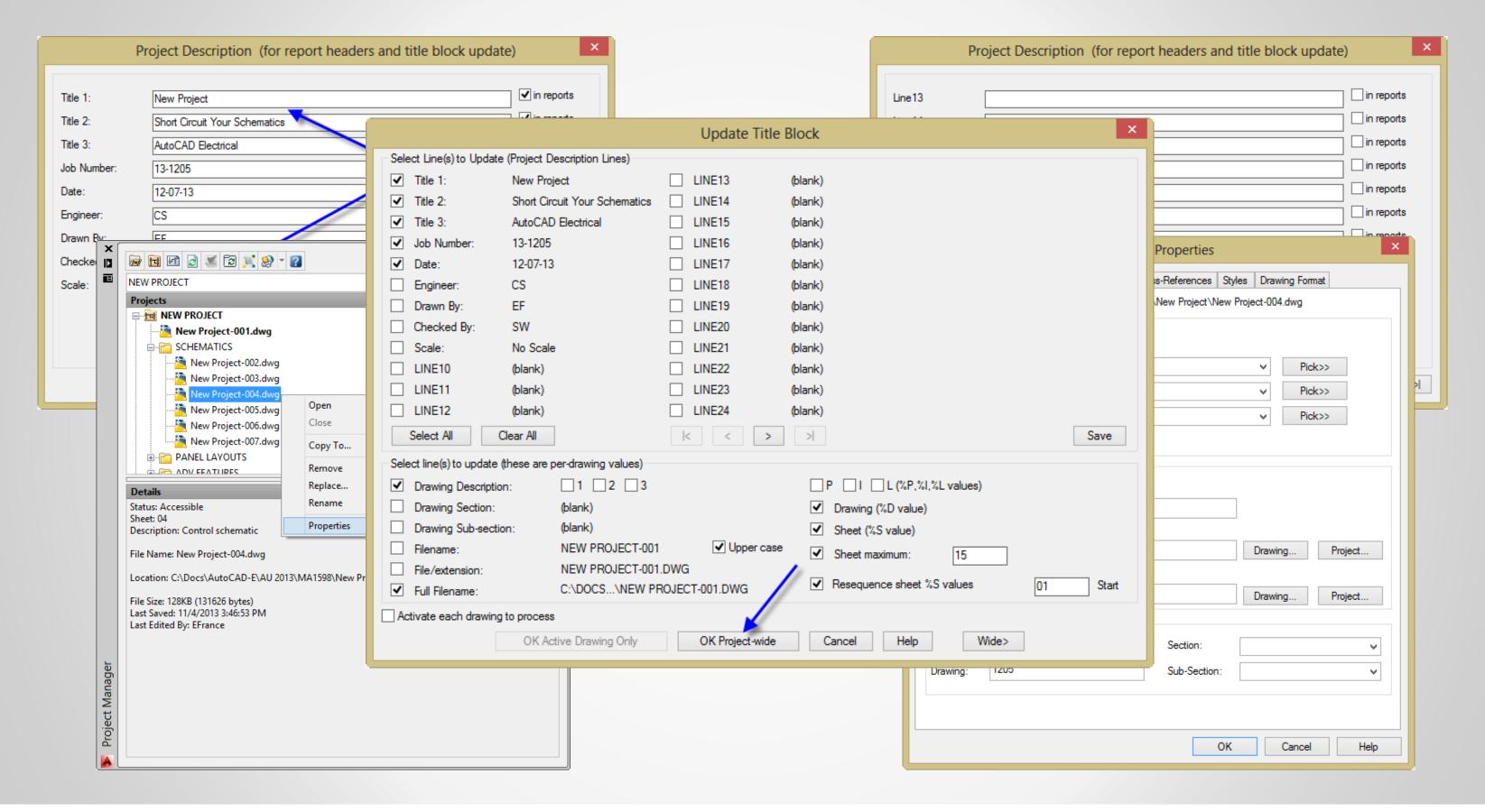
Update project descriptions and other title block data across the entire drawing set



Adding the new project information

- Once the Copy Project has been completed, you are ready to start editing the information in the drawing.
- First, we need to update the Project-specific information in the Project Descriptions dialog.
- Once that's completed, we can push that data out to every title block in our new project using Update Title Block.







Adding New Project Information Summary

- > Edit Project Descriptions
 - Edit Individual Drawing Descriptions, if needed

- Update Title Blocks Project-Wide
 - Select Drawings to Process

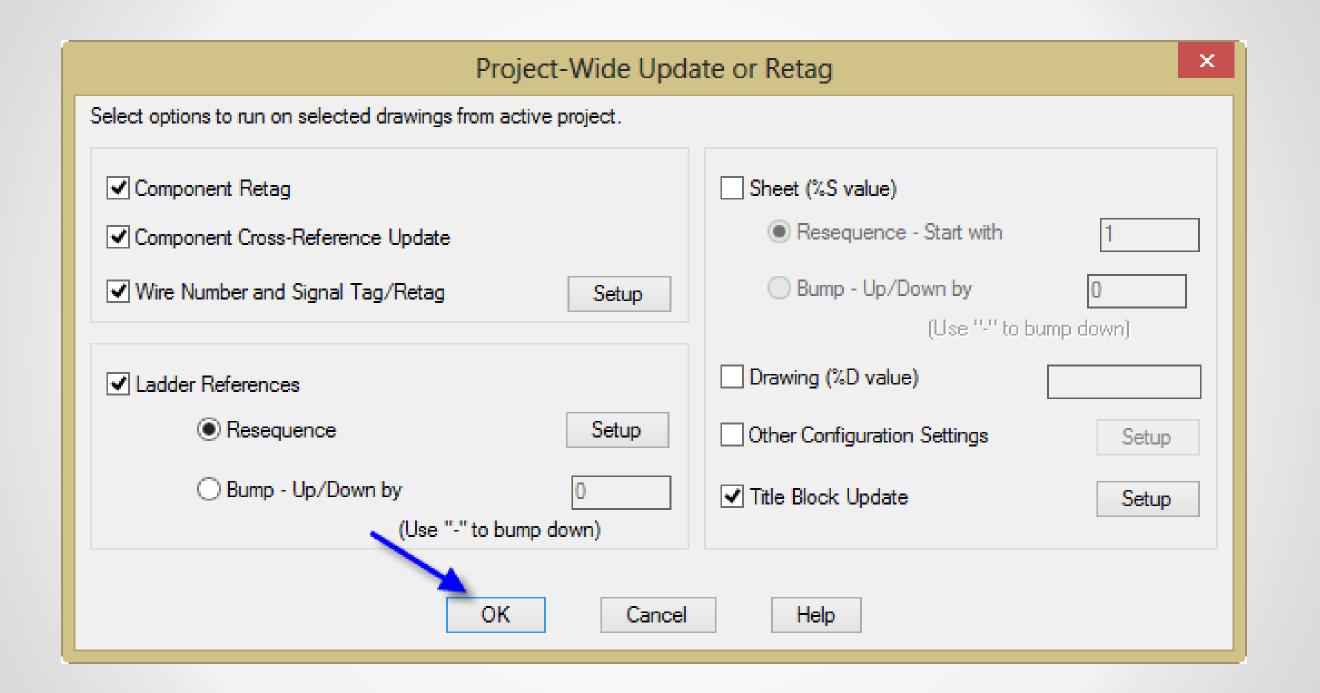


Reformat component tags and wire numbers for the whole project



Reformat the schematics

- If this project requires different formatting than the original, we can use Project-Wide Update/Retag to completely reformat the structure of our new project.
- Elements of our schematics like, line references, component and wire tags, component crossreferences, and more can all be adjusted here.
- We can even choose to run the Update Title Block in here instead.



Project-Wide Update/Retag Summary

- Launch Project-Wide Update/Retag
 - Adjust Component Tags and Cross-References
 - Adjust Component Adjust Wire Numbers and Signal Arrows
 - Adjust Ladder References
 - Adjust Sheet and Drawing Numbers
 - Run Title Block Update
- > Select Drawings to Process

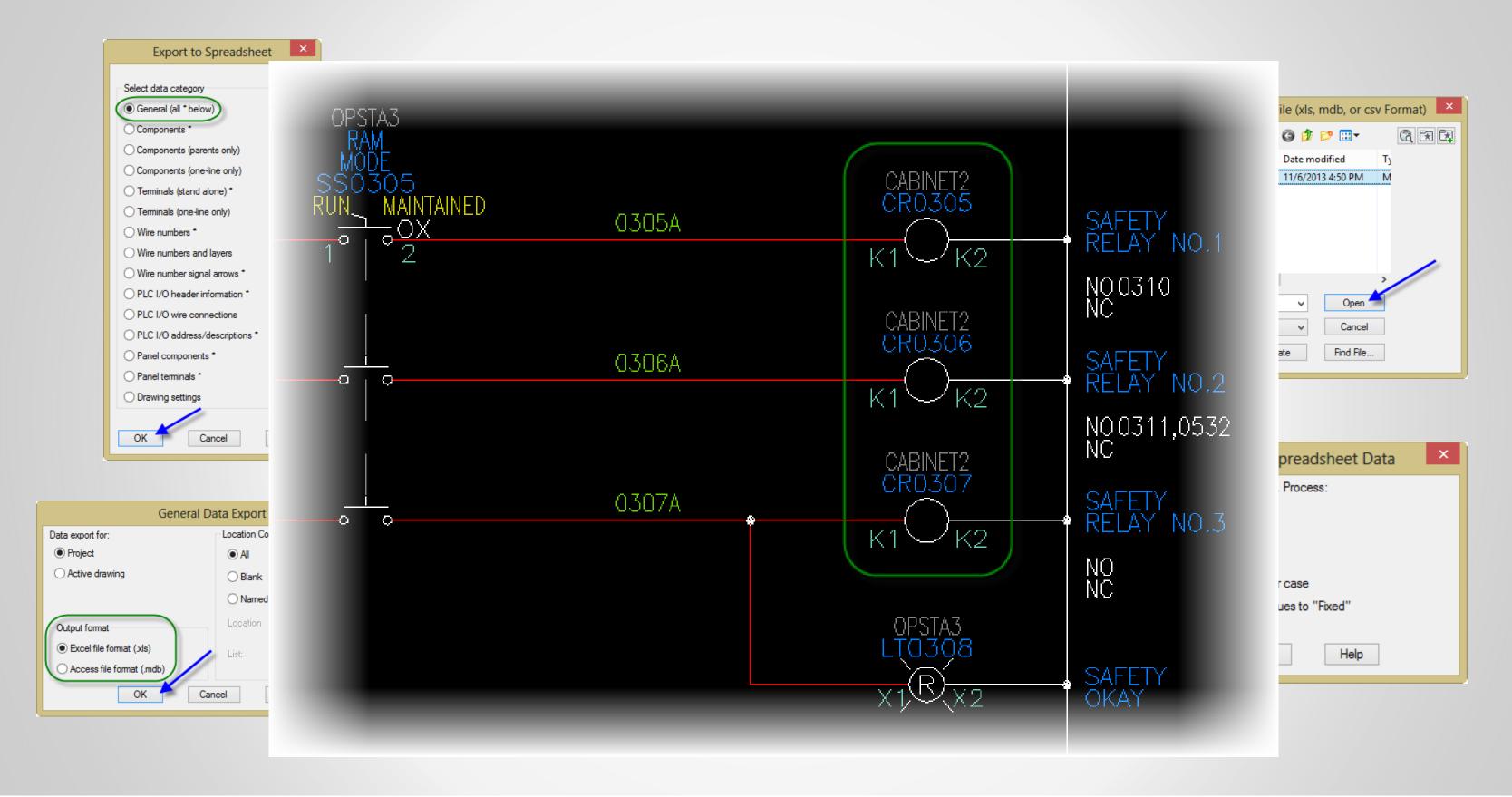


Update descriptions and location codes for components and PLC modules in Microsoft® Excel® software



Quickly Update Content

- Finally, we can focus on the content of the drawings in our new project. We start by using Export to Spreadsheet to get that content into an easily editable format.
- Now, using Excel's Sorting and Find/Replace capabilities we can make changes to things like Component Descriptions and Location Codes.
- Use Import from Spreadsheet to refresh our drawings.





Content Update Summary

- > Export to Spreadsheet
 - Select Data Categories
 - Select Drawings to Process
- > Edit in Excel®
 - > Sort
 - Replace
- > Import from Spreadsheet



Class Summary

In this class, you learned how to:

- Copy a completed project to create a unique new project
- Update project descriptions and other title block data across the entire drawing set
- Reformat component tags and wire numbers for the whole project
- Update descriptions and location codes for components and PLC modules in Microsoft® Excel® software

