IM10423-AutoCAD Electrical 2016 (and 2015) What's New

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AutoCAD Electrical Evangelist





About your instructor



Randy Brunette AutoCAD Electrical Evangelist

AutoCAD since 1984

AUTODESK UNIVERSITY 2015

- AutoCAD Electrical since 1996
- 16th Year Teaching @ Autodesk University
- Fly radio control airplanes, helicopters, and quad copters



About You??

How many: (Raise hands)

- ✓ Currently use AutoCAD Electrical 2016?
- ✓ Currently use AutoCAD Electrical 2015?
- ✓ Currently use older AutoCAD Electrical?
- ✓ Currently use basic AutoCAD or other software?

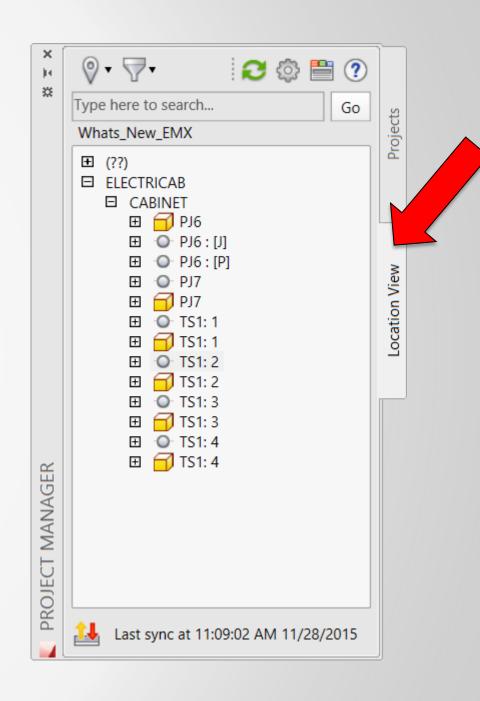






Location View Tab on Project Manager

- Hover over a device to view catalog, description, and rating information.
- Expand the device to view the component pin values.
- Filter the list based on installation and location values.
- Refresh the view to reflect changes across the project
- Right-click to surf to a selected component.
- Display the Details pane to view component details and the Connections pane to view wiring from\to information.

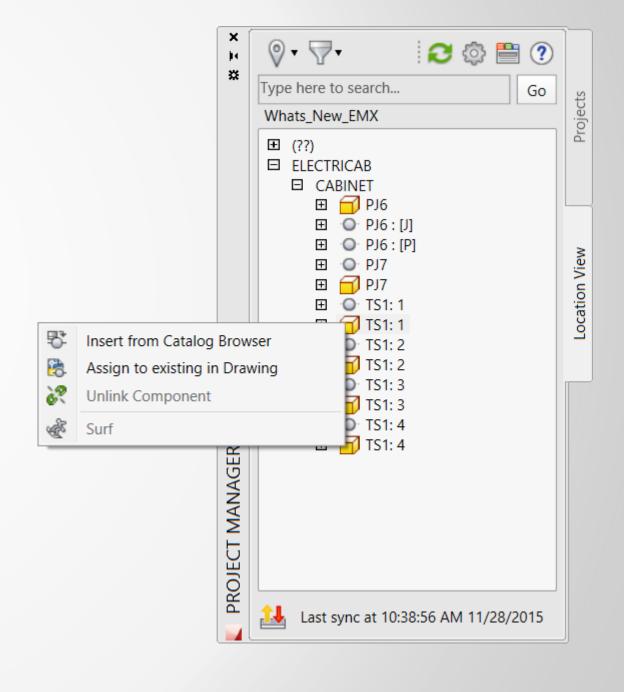






AutoCAD Electrical and Inventor Interoperability

- The EMX link provides data exchange between your 2D and 3D electrical designs. Use the Location View tab to view both the AutoCAD Electrical and Inventor components and data.
- Insert from Catalog Browser. Performs a catalog lookup, using the catalog information from the Inventor part, where you can insert a symbol to link to the Inventor part.
- Link to Existing in Drawing. Select a symbol from the drawing to link to the Inventor part.

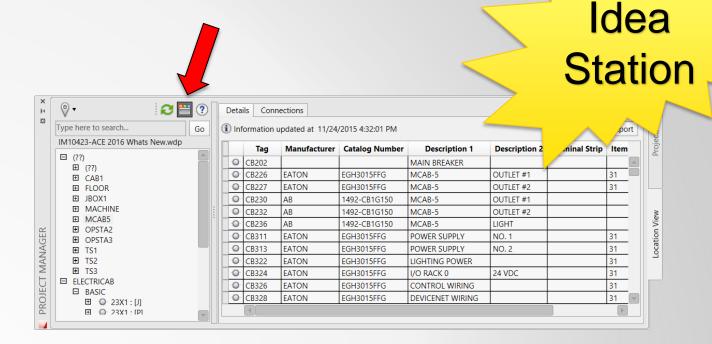


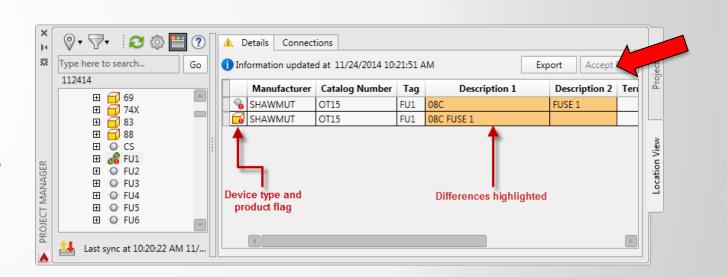




Details & Connections

- Display the Details pane to view component details and the Connections pane to view wiring from\to information.
- Use the Details and Connections pane to view differences between the linked components
- Use the Accept Inventor button to reconcile the differences between the linked components.





Note: This same functionality is available in Inventor from the new Electromechanical tab on the Assembly ribbon.



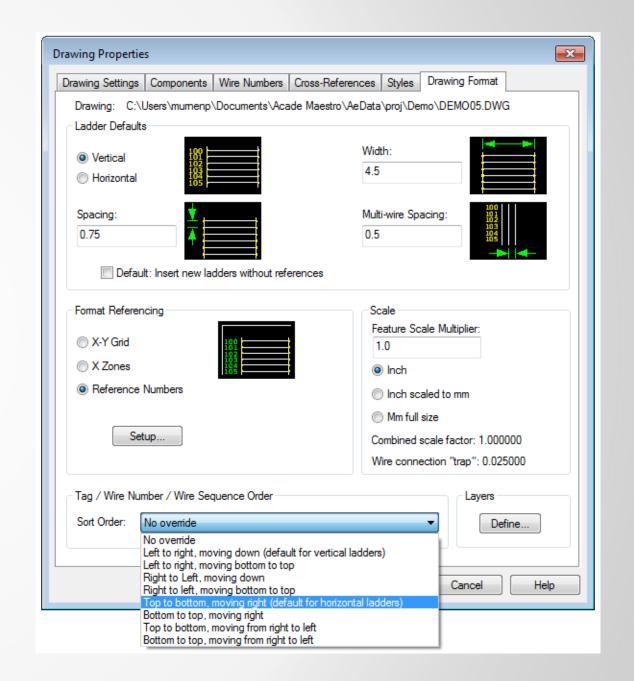


Default Wire Sequence

AutoCAD Electrical performs the following steps when determining wire connection sequence:

- Check for a wire sequence defined using the Edit Wire Sequence command, including any Direct-to-Terminal connections. (manual edits)
- 2. Check for angled tees on the wire network.
- 3. Check if any of the components have the same Location.
- 4. Use the Sort order drawing property to determine the connections for anything not accounted for in the previous checks.

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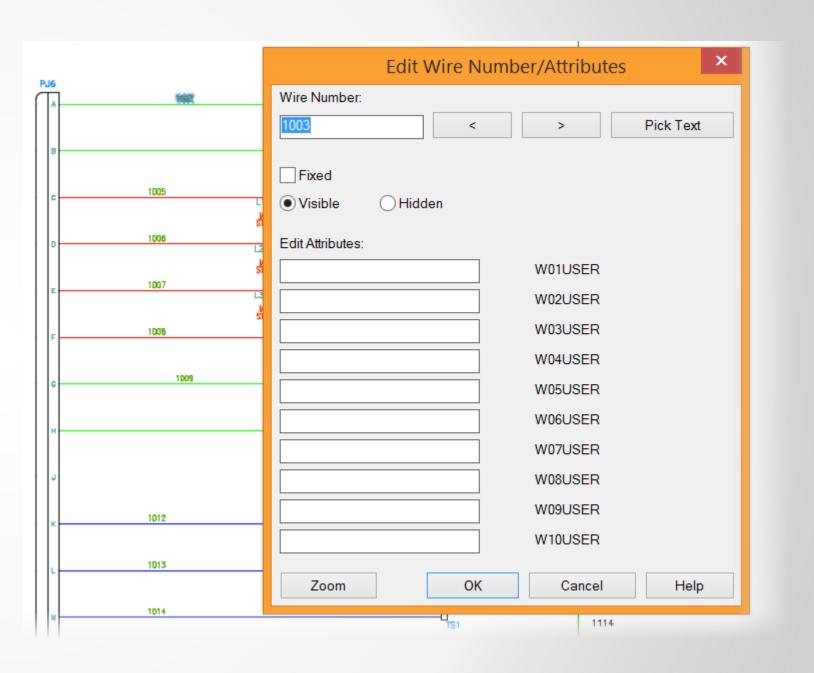






Wire Number Attributes

- Edit the wire number attributes,
 W01USER-W10USER, on the Edit
 Wire Number/Attributes dialog box.
- These values are now available fields in the following reports:
 - Wire From\To
 - Component Wire List
 - Connector Plug
 - Terminal Plan
 - Cable From\To

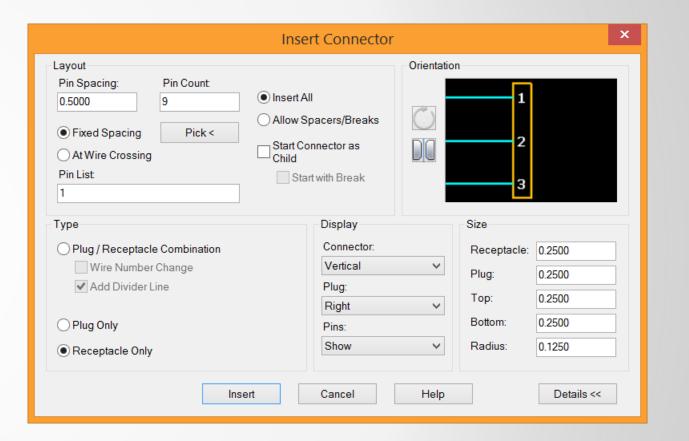






Insert Connector

- The Insert Connector dialog box settings are maintained across sessions of AutoCAD Electrical.
- The product supports two groups of settings, one for metric drawings and another for imperial drawings.
- The appropriate settings are used automatically based on the active drawing.
- Insert/Edit Component dialog box opens after completing insertion of connector.



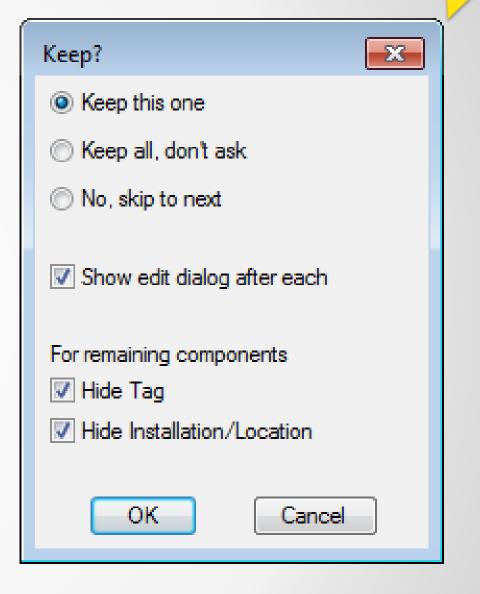




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Idea Station

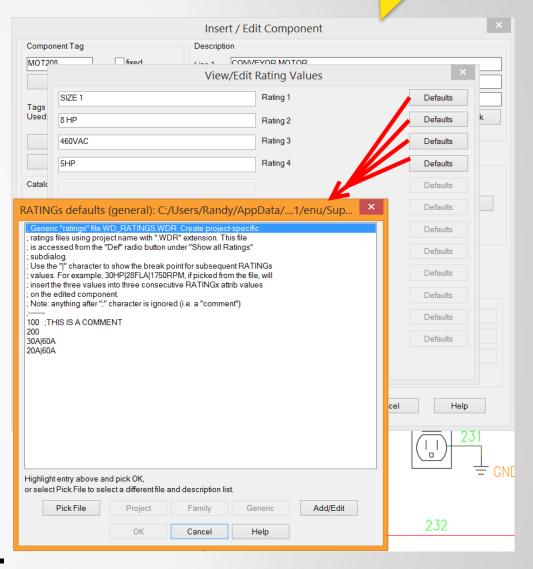
If you insert schematic terminals using the Multiple Insert commands, there are now options to hide the tagstrip, installation, and location attribute values.



Miscellaneous

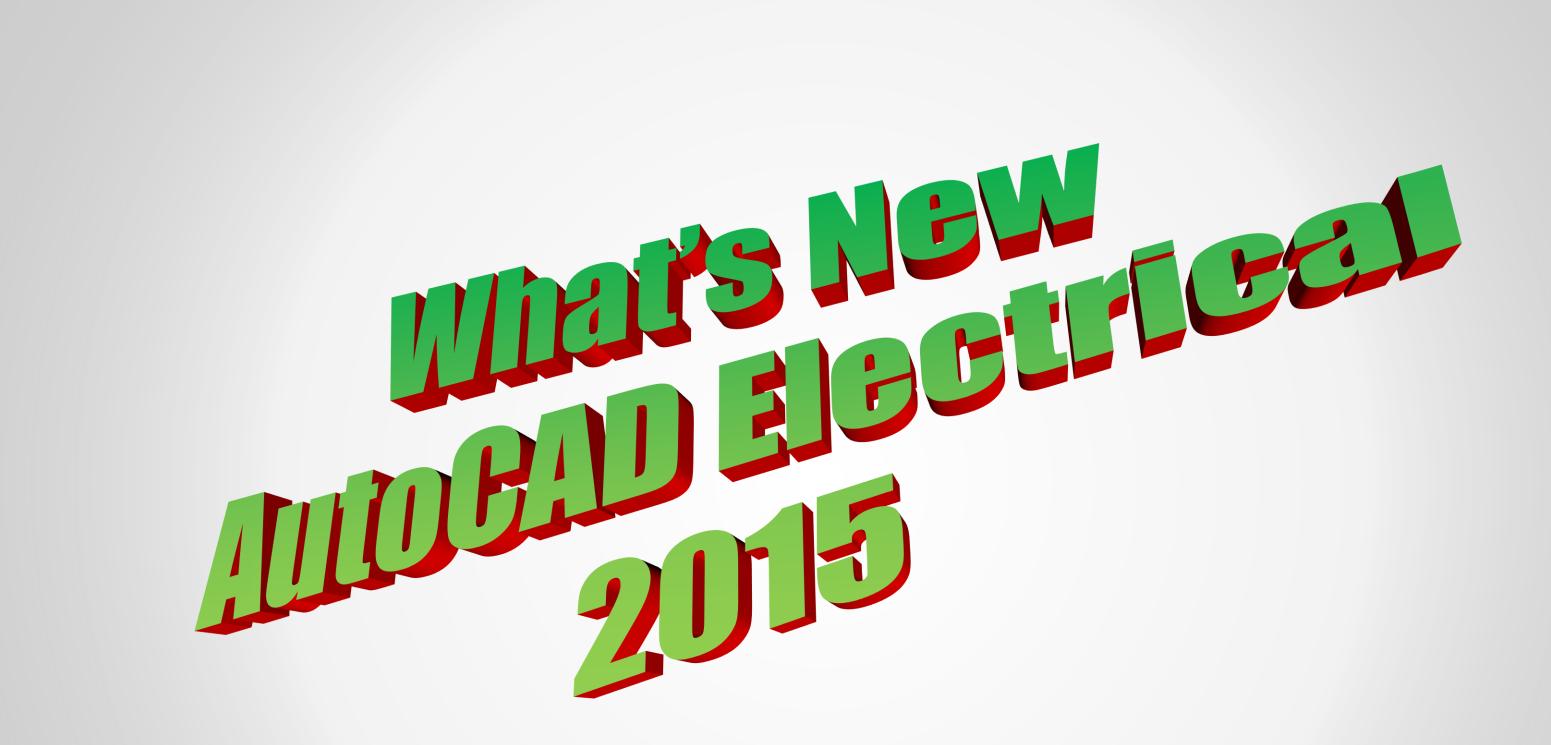
- Child components linked to the parent with the dashed link line are filtered out of the cross-referencing on the parent component.
- Buttons for individual rating defaults added to the View/Edit Rating Values dialog box when editing a panel component.
- The Copy Circuit command defaults to selecting multiple insertion points for creating multiple copies on the same drawing.
- The Export to Spreadsheet now freshens the database automatically before performing the export.
- A new check box on Terminal Strip Editor lets you save the internal and external device assignments







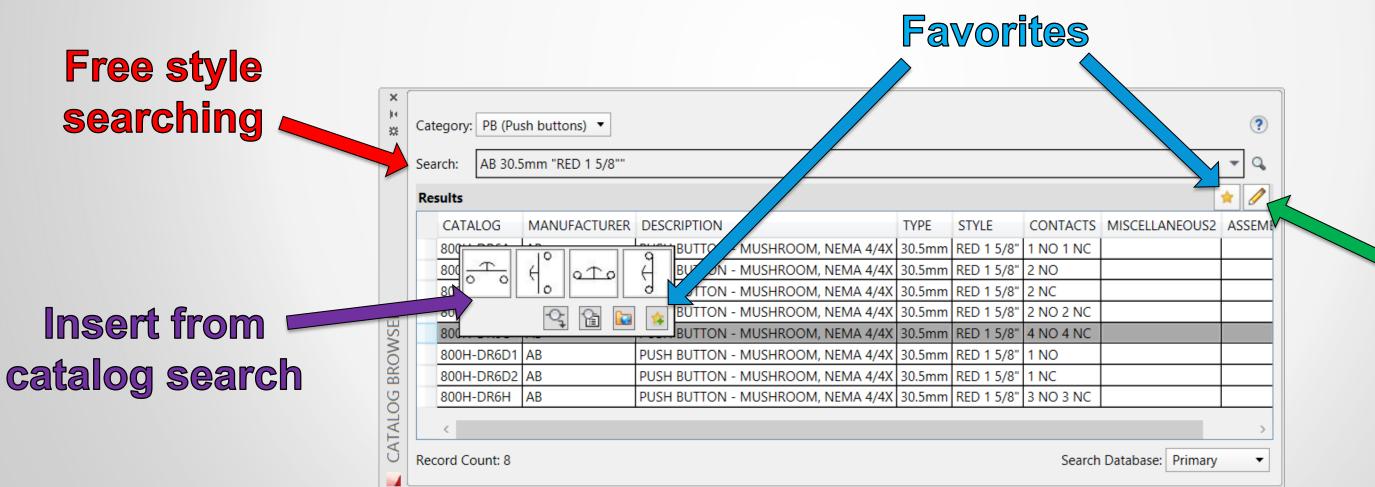


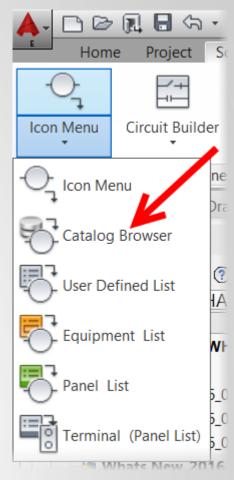




Catalog Browser

The Catalog Browser is the new interface for accessing the catalog content. The Catalog Browser is search-based. Enter your search criteria and select from a list of catalog values that match your search criteria.

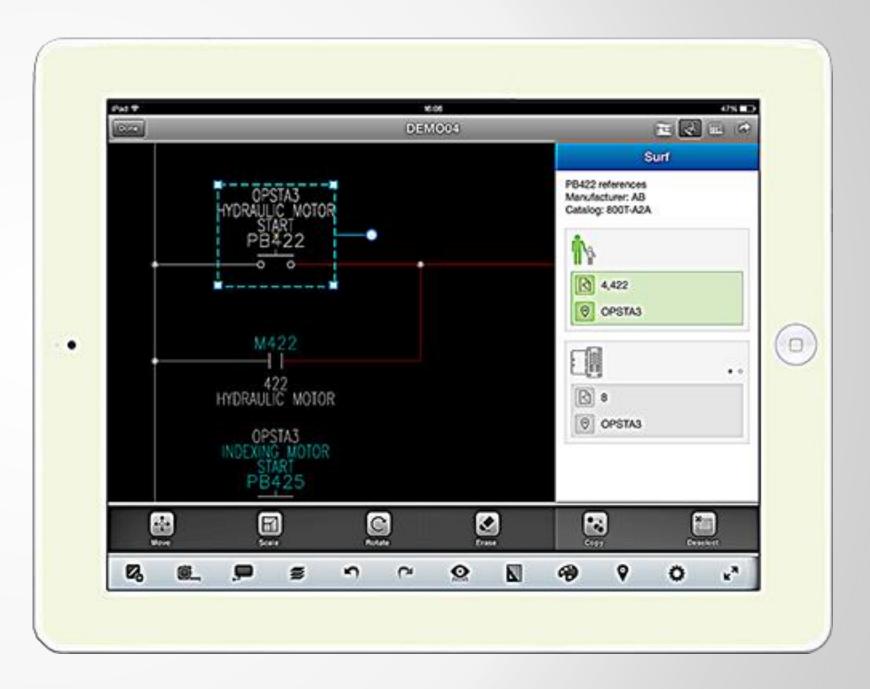






AutoCAD Electrical Mobile App

- Free on App Store.
- Integrate with Autodesk 360 or some other cloud storage for immediate access to your projects and drawings.
- Integrated with AutoCAD 360 mobile app.
- Use Design Feed for markup and collaboration.
- Navigate the project, surfing on components, terminals, and signal arrows.





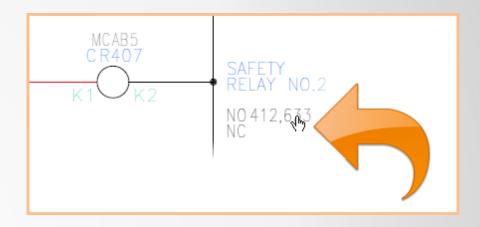
PDF Publish with Hyperlinks

Publish a set of drawings to a single multipage PDF file with hyperlinks.

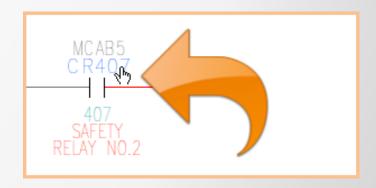
Open the PDF and use the hyperlinks to:

- Jump between related schematic parent and child components.
- Jump between related schematic parent and panel footprints.
- Jump between related one-line and schematic components.
- Follow a wire network across signal arrows.
- Follow stand-alone cross-references

Jump to Child



Jump to Parent

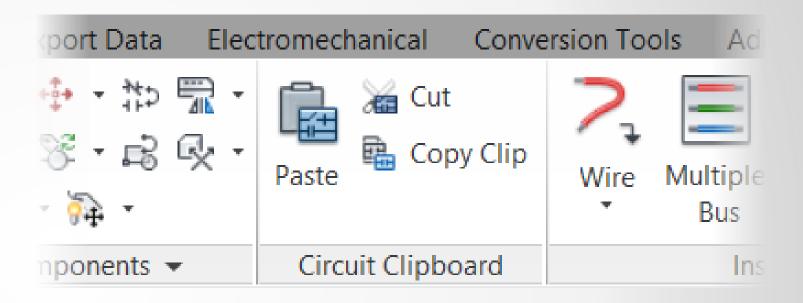






Cut, Copy, Paste

New commands allow you to cut, copy, and paste electrical objects from one drawing to another.

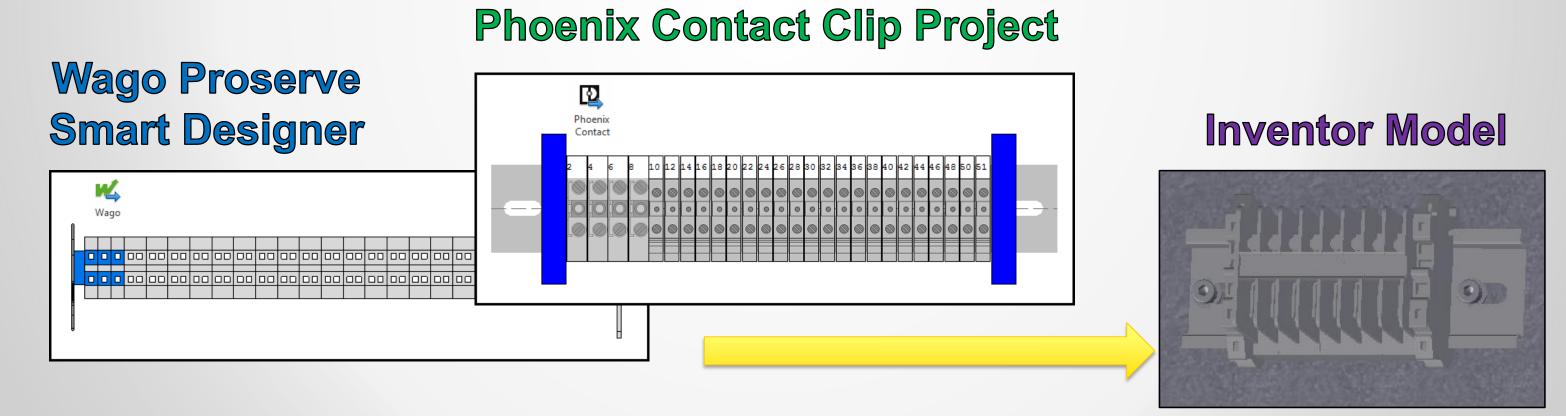


Note: Objects placed on the circuit clipboard can only be pasted on an AutoCAD Electrical drawing using the AutoCAD Electrical Paste command. (This is NOT the Windows CTRL-C, -X and -V)



Export Terminal Strips to Wago and Phoenix

Export the terminal data such as catalog number, terminal number, installation code, location code, tag, quantities, spare, and accessories on a terminal strip to the Wago and Phoenix Contact applications. From Vendor tools, create model or drawing for insertion.

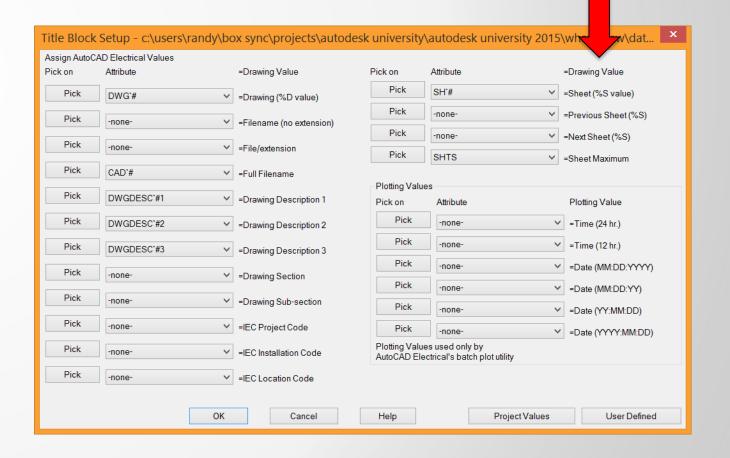






Miscellaneous

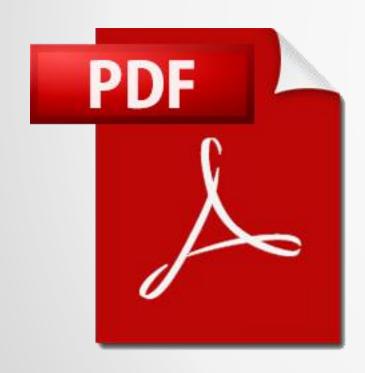
- Report Format Setup lets you select a table style for table settings.
- Standard paths to library symbols are now saved in the project file. The symbol library paths use a variable to indicate the default library path, for example %SL_DIR%jic125/,%SL_DIR%jic125/1-/.
- You can now define a User Post option in your report format .SET file.
- Next and Previous Sheet options added to the Title Block Setup and Title Block Update.
- Various HELP updates.





Class Handout

- Download from AU Website.
- Includes most What's New features from 2005-2016.



Questions And Feedback







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