Using AutoCAD Electrical For More Than Just Schematics

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AutoCAD Electrical Subject Matter Expert
Agenda

- Introduction
- What are Peer Components?
- One-line Symbols
- Library Access
- WDTType attribute
- WDTAGALT attribute
- Linking Peer Components
- Create Custom Categories
About me (technical)

• 11 years owner of Brunette Technologies, LLC
  As of 8 days ago, now with Spatial Business Systems, Inc.
• 34 years in industry as worker and designer
• AutoCAD since 1984
• AutoCAD Electrical since 1996
• 23 years as Application Engineer
• 12+ years authoring AutoCAD

Electrical materials, including AOTC
About Me… (personal)

• Hometown – Chilton, Wisconsin, USA
• Married, two daughters, two son-in-laws, one grand child, and a dog
Fly Radio Control Aircraft

First rule of flying:
Takeoffs are optional,
Landings are mandatory.
What Are Peer Components?

- The same components displayed in a different representation on a different style drawing
- Matching components on the same level or hierarchy
  - NOT a parent/child type relationship
  - Similar to Schematic and Panel relationship which links TAG1 and P_TAG1 attributes
  - Peers are linked using WDTYPE and WDTAGALT attributes
- Symbol Styles include:
  - One-line (but still electrical)
  - Pneumatic, Hydraulic, P&ID
  - Anything else you can think of…
WDTYPE Attribute

• WDTYPE identifies the style or category of the symbol
• Already inserted on the included peer symbols
  o PN = Pneumatic
  o HY = Hydraulic
  o PI = P&ID
  o 1- = One-line
• If symbol carries TAG1, and WDTYPE is missing or blank, Schematic type is assumed
WDTAGALT Attributes

- Two methods to link peer components,
  - TAG1 – When both components will have matching tags values, only TAG1 is used
  - WDTAGALT – When components need different tag values, WDTAGALT is used
    - Using WDTAGALT links to the matching peer TAG1 value
Summary

• Described Peer Components, including One-line Symbols
• Showed how to access the symbol libraries
• Explained the WDTYPE and WDTAGALT attributes
• Linked Peer Components using TAG1 and WDTAGALT attributes
• Created new category types
Any questions?

Please, please, please fill out class evaluations.

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Remember, the correct answer is...

Awesome!

Thank You