AUTODESK UNIVERSITY 2015

MSF10937-L

Fabrication: Advanced Database Administration (Outside the box)

Instructor:
Darren Young
Southland Industries, Garden Grove, California (Los Angeles)

Lab Assistants:
Erik Peterson (UA Local 15) – Senior Piping Coordinator
Modern Piping, Blaine, Minnesota (Minneapolis / St. Paul)

Peter Granlund (SMART Local 18) – Sheet Metal Design Manager / Mechanical Engineer
J.F Ahern Company – Milwaukee, Wisconsin

Adam Scott (UA Local 78) – BIM Fabrication Specialist / Plumbing General Foreman
Southland Industries, Las Vegas, Nevada

Learning Objectives

- Learn how to rename/reorganize ITM content and fix all services quickly
- Learn how to find and eliminate stubborn connectors/seams/materials you want to delete
- Learn how multiple admin's can concurrently edit your content without stepping on each other's toes
- Learn how multiple administrators can concurrently manage your content without stepping on each other's toes

Description

If you are new to Fabrication software, there's a lot of road between installing the software and deploying and implementing the product across an enterprise. How do you point all your users to the same database? How do you implement security so that not everybody can change your database? How do you upgrade a Fabrication software database to the next release? All these common questions have easy answers that are not easy to come by if you are a new user. This lab will walk you through taking the configuration that installs to deploying the software to all users in your company in a safe and effective manner.

Your AU Experts

A Midwestern transplant now based in Southern California, veteran Autodesk University speaker Darren Young has held a variety of positions over the last 20 years, including CAD and CAM engineer, CAD administrator, and CAD/CAM systems developer. Currently Darren is the systems integration manager for Southland Industries, one of the largest mechanical engineering and construction companies in the United States. Darren manages one of the largest installations of Fabrication software licenses in the world. While Darren's true interest is the automation of manufacturing systems, his experience ranges from lean manufacturing to architecture, and this has led him to projects varying in scope from dress patterns to gas turbine piping. He has founded a consulting and development business, and he has been a technical editor and publication author.

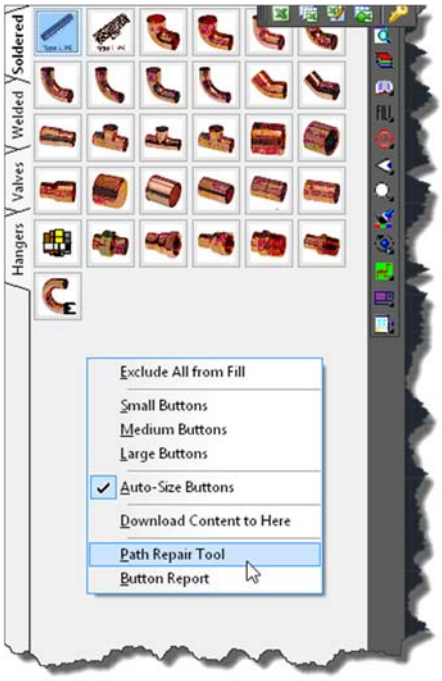
Work: dyoung@southlandind.com
Home: dyoung@mcwi.com

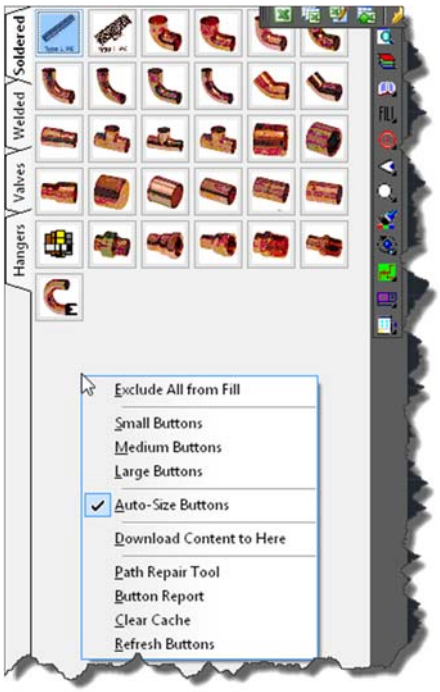
Rename / Reorganize Content

Tools of the trade….

- Use Button Repair Tool after renaming ITMs, Folder or reorganizing content to copy invalid paths to the Clipboard.
- Paste into Excel and copy content in Column A to Column B. Rename paths/names in Column B and save as a CSV or TXT file.
- Use Button Repair tool to read CSV/TXT to fix ALL services templates
- Refresh images using any/all/combinations of…
    - Change Services to see Changes
    - Use REFRESHALLBUTTONS command
    - Shift+Right-Click -> Delete Cache
    - Shift+Right-Click -> Refresh Button

Right-Click **Shift+Right-Click**





- Use “Botton Report” & Excel to fix Button Descritpions
    - Export to CSV from Button Report
    - Use the following formula in Column B (Name) to base it on the newly renamed ITM name.

      =SUBSTITUTE(MID(J2,FIND("*",SUBSTITUTE(J2,"/","*",LEN(J2)-LEN(SUBSTITUTE(J2,"/",""))))+1,LEN(J2)),".ITM","")

    - Import updated Excel file to fix descriptions.

Rename / Reorganize Content

Before you Rename/Delete connectors, seams, materials, etc. in your database, do you know where or how they're used?

Use the COD scripts to examine the parts of your job or Library ITM's. They'll export the specified property to a CSV/TXT file that you can open and sort in Excel. This will tell you where those database entries are referenced so you can fix them.

Name	Date modified	Type	Size
SI-WriteDwgAirTurns.cod	7/12/2010 9:25 AM	COD File	3 KB
SI-WriteDwgAlias.cod	7/9/2010 2:59 PM	COD File	3 KB
SI-WriteDwgAlternates.cod	7/12/2010 1:51 PM	COD File	3 KB
SI-WriteDwgBMPs.cod	7/12/2010 1:51 PM	COD File	3 KB
SI-WriteDwgBoughtOut&CutType.cod	7/9/2010 3:03 PM	COD File	3 KB
SI-WriteDwgBoughtOut.cod	7/9/2010 2:59 PM	COD File	3 KB
SI-WriteDwgButtonCode&Alias.cod	7/12/2010 1:51 PM	COD File	3 KB
SI-WriteDwgCADBlocks.cod	7/12/2010 1:51 PM	COD File	3 KB
SI-WriteDwgCIDs.cod	7/12/2010 1:50 PM	COD File	2 KB
SI-WriteDwgComments.cod	7/12/2010 1:50 PM	COD File	3 KB
SI-WriteDwgConnectors.cod	7/12/2010 2:23 PM	COD File	3 KB
SI-WriteDwgCosts.cod	7/12/2010 1:52 PM	COD File	4 KB
SI-WriteDwgCustomData.cod	7/12/2010 10:42 AM	COD File	3 KB
SI-WriteDwgCutType.cod	7/9/2010 3:01 PM	COD File	3 KB
SI-WriteDwgDampers.cod	7/12/2010 2:24 PM	COD File	3 KB
SI-WriteDwgDatabaseIDs.cod	7/12/2010 1:49 PM	COD File	3 KB
SI-WriteDwgDescriptions.cod	7/12/2010 1:49 PM	COD File	3 KB
SI-WriteDwgDims.cod	7/12/2010 2:24 PM	COD File	4 KB
SI-WriteDwgDrawings.cod	7/12/2010 1:49 PM	COD File	3 KB
SI-WriteDwgFilePath&Names.cod	7/12/2010 1:48 PM	COD File	3 KB
SI-WriteDwgFxRelatives.cod	7/12/2010 1:48 PM	COD File	3 KB
SI-WriteDwgHasProduct.cod	7/12/2010 1:47 PM	COD File	3 KB
SI-WriteDwgLibrary.cod	7/12/2010 1:47 PM	COD File	3 KB
SI-WriteDwgMaterials.cod	7/12/2010 1:47 PM	COD File	3 KB
SI-WriteDwgNestPriorities.cod	7/12/2010 1:46 PM	COD File	3 KB
SI-WriteDwgNotes.cod	7/12/2010 1:46 PM	COD File	3 KB
SI-WriteDwgNumbers.cod	7/12/2010 1:45 PM	COD File	3 KB
SI-WriteDwgOptions.cod	7/12/2010 2:25 PM	COD File	3 KB
SI-WriteDwgOrders.cod	7/12/2010 1:45 PM	COD File	3 KB
SI-WriteDwgOrphanedITMs.Cod	10/8/2015 9:54 AM	COD File	3 KB
SI-WriteDwgPallets.cod	7/12/2010 1:44 PM	COD File	3 KB
SI-WriteDwgProductLists.cod	7/12/2010 2:25 PM	COD File	3 KB
SI-WriteDwgQuantities.cod	7/12/2010 1:44 PM	COD File	3 KB
SI-WriteDwgScales.cod	7/12/2010 1:44 PM	COD File	3 KB
SI-WriteDwgSeams.cod	7/12/2010 2:26 PM	COD File	3 KB
SI-WriteDwgSections.cod	7/12/2010 1:52 PM	COD File	3 KB
SI-WriteDwgServices.cod	7/12/2010 1:52 PM	COD File	3 KB
SI-WriteDwgServiceTypes.cod	7/12/2010 1:53 PM	COD File	3 KB
SI-WriteDwgSkinConnectors.cod	7/12/2010 2:03 PM	COD File	3 KB
SI-WriteDwgSkins.cod	7/12/2010 2:10 PM	COD File	3 KB
SI-WriteDwgSkinSeams.cod	7/12/2010 2:13 PM	COD File	3 KB
SI-WriteDwgSpecifications.cod	7/12/2010 2:17 PM	COD File	3 KB
SI-WriteDwgSplitters.cod	7/12/2010 2:21 PM	COD File	3 KB
SI-WriteDwgSpools.cod	7/12/2010 2:28 PM	COD File	3 KB
SI-WriteDwgStatus.cod	7/12/2010 2:30 PM	COD File	3 KB
SI-WriteDwgStiffeners.cod	7/12/2010 2:36 PM	COD File	3 KB
SI-WriteDwgSubItems.cod	7/12/2010 2:41 PM	COD File	3 KB
SI-WriteDwgSupports.cod	7/12/2010 2:47 PM	COD File	3 KB
SI-WriteDwgTypes.cod	7/12/2010 2:49 PM	COD File	3 KB
SI-WriteDwgZones.cod	7/12/2010 2:51 PM	COD File	3 KB

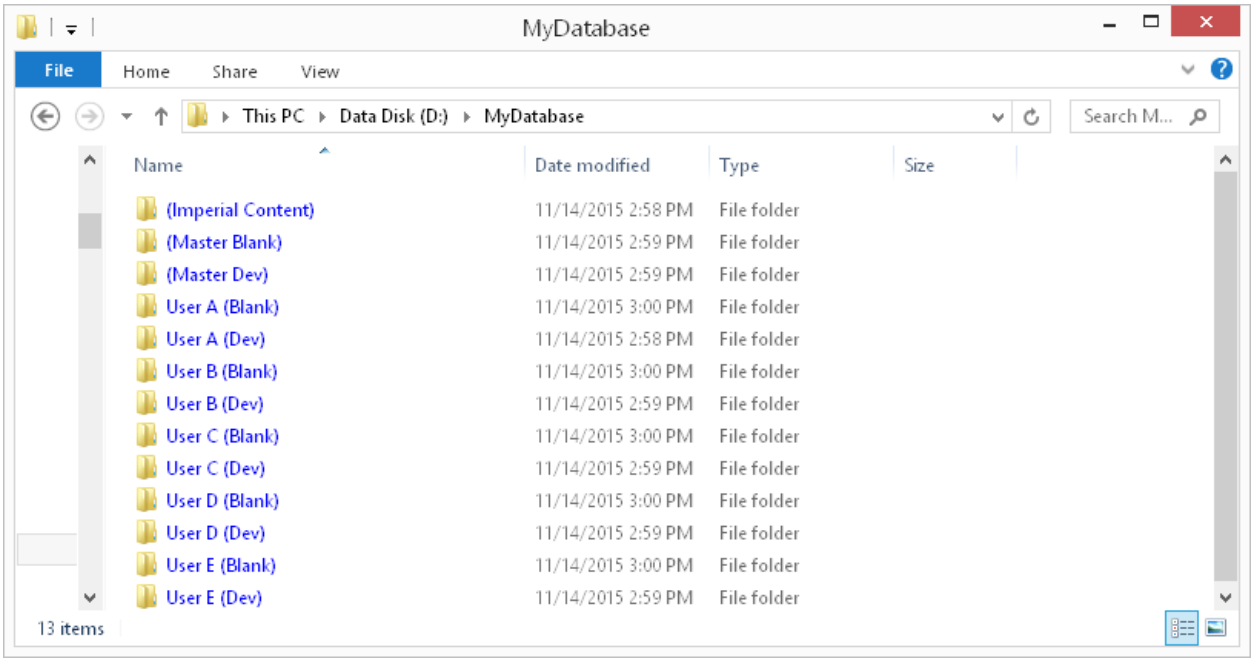
Multiple Admins to Build Database Content

You can have multiple "Admins" working to build content at the same time. Just move ITM's outside the Database Configuration folder and path each user's MAP.INI file to look there.

Database Settings are separate but content is comingled. If you pick on an ITM another user has created, it'll bring in the connectors/materials they created.

Consider also doing the following…

- Have a user Export a bogie service of their content to an IEZ.
- Test the IEZ in a "Blank" database to see what's really coming it (QA/QC)
- Import into the "Master" development database where everyone's work is combined.
- Export from the Master to your production environment. Direct copy and/or IEZ exports.
- Development DB's can be "refreshed" from the Masters.



Metric & Imperial in the same DB.

The CADINFO.MAP files stores the settings for annotation in CADmep. This file is stored in the same folder as the MAP.INI file. Move your MAP.INI file and the other files in the same folder into separate folders for Imperial/Metric. You then update your MAP.INI pathing to pull from the same database location.

This creates 2 separate CADINFO.MAP files that use the same database files, content and reports creating an environment where you can change the annotation settings between Imperial and Metric.

This same technique can be used to allow using Ft-In format with no diameter symbol for Piping trades and fractional inch with diameter symbol for ductwork.