Good Fabrication MEP Database Management - Inside and Out CCS323124

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CONNECT & CONSTRUCT SUMMIT



Hermanson

Mechanical Contractor

HVAC Sheet Metal & Piping and Plumbing Fabrication & Construction

Design-Build Engineering

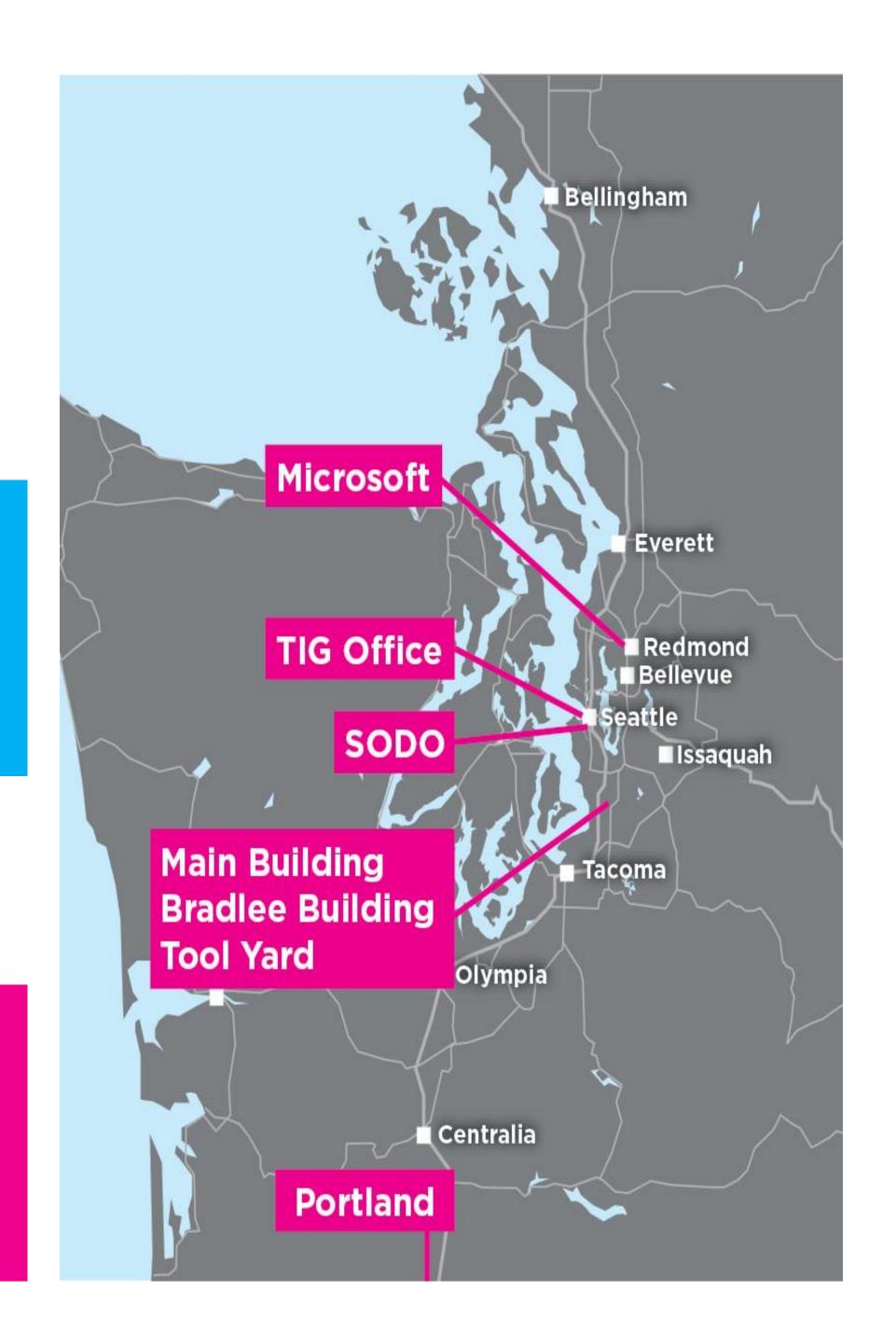
Service & Maintenance

Hermanson Statistics

\$250 Million Annual Revenue

550 Employees

Eight Locations including office, fabrication shops, & warehouse / distribution centers





Hermanson

Darren Young / Seattle, Washington

Husband/Father (1 Wife / 2 Boys / 1 Girl)

Pet Owner (2 Dogs / 1 Cat / 3 Fish)

YMCA Swim Official

Technology Enthusiast / Skeptic

Hockey Fan / Do-It-Yourselfer / Outdoorsman

Lean / Coding / Manufacturing

Learning Objectives

✓ Learn how to perform QA/QC on your database

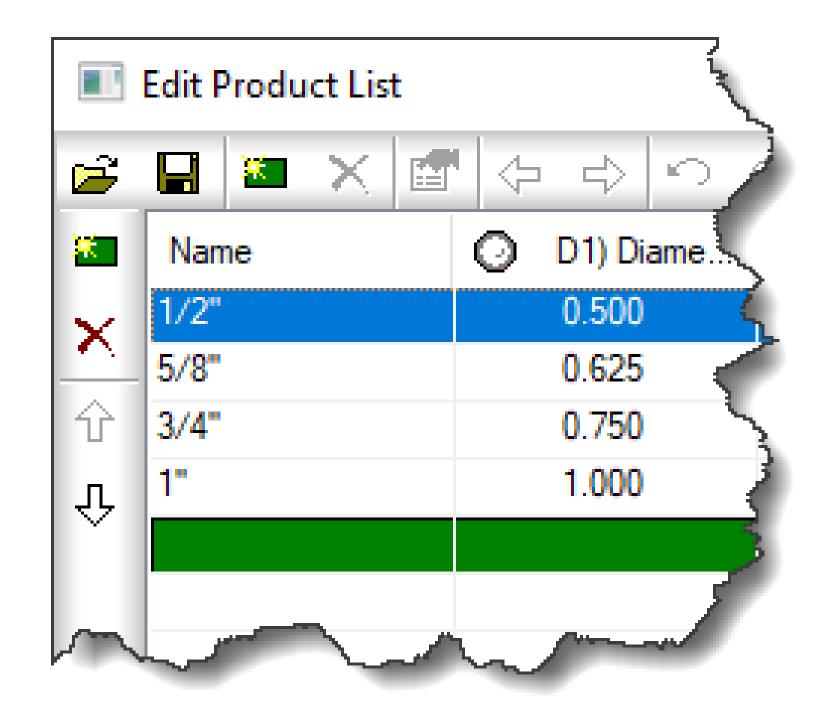
✓ Learn about identifying and fixing issues

✓ Learn about proper routine maintenance

✓ Learn things not to do

Don't use Double Quotes (")....Ever.

- Use Export Scripts to review data in Excel.
 https://tinyurl.com/COD-Script-Library
- Bulk Export Product Lists and use Notepad++ to search files in folders to replace double quotes
- Double Quotes can corrupt data exported from Excel
 - Specifications (Sheetmetal)
 - ITM File names
 - Product List Names
 - Material names, etc.

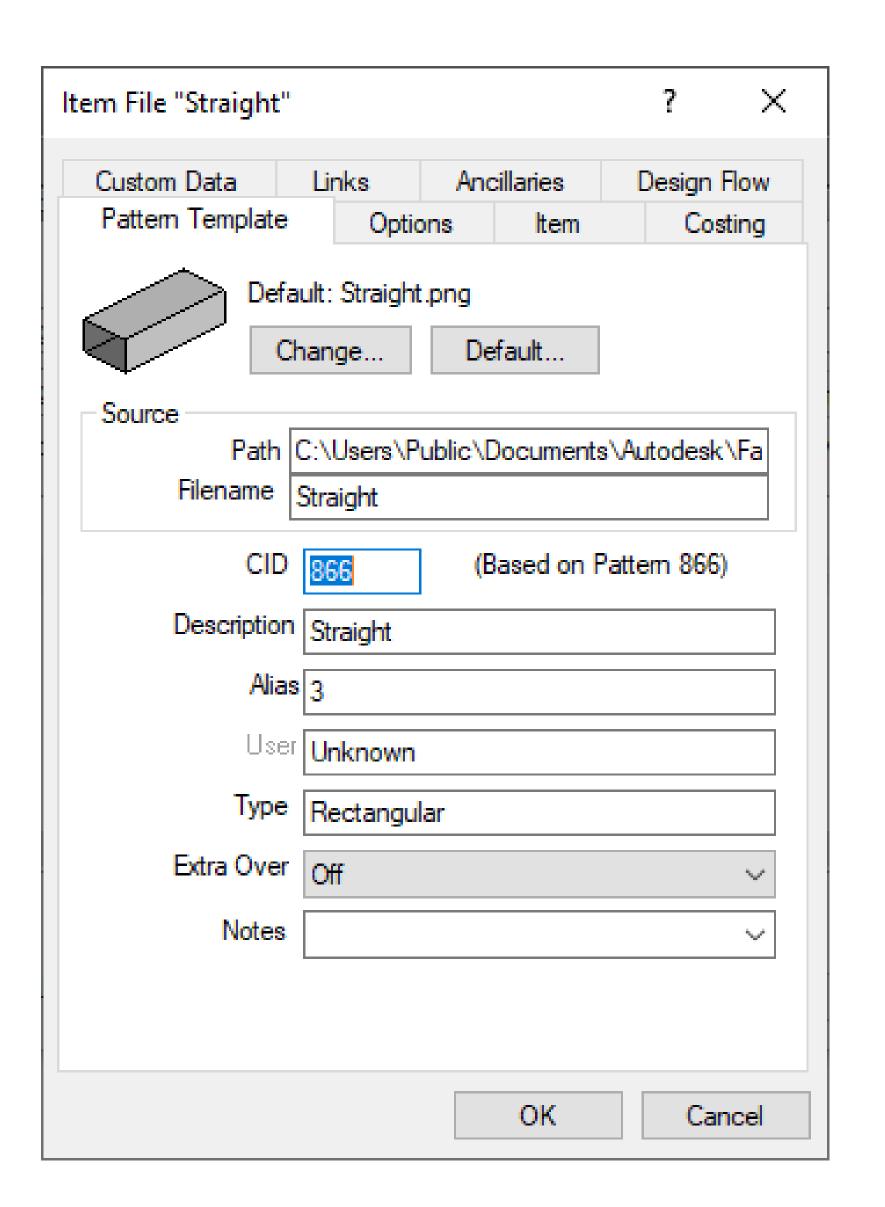


Don't use Commas (,)....Ever.

- Use Export Scripts to review data in Excel.
 https://tinyurl.com/COD-Script-Library
- Bulk Export Product Lists and use Notepad++ to search files in folders to replace commas
- Commas can corrupt data exported from Excel
 - Specifications (Sheetmetal)
 - ITM File/Folder names
 - Product List Names
 - Material names, etc.

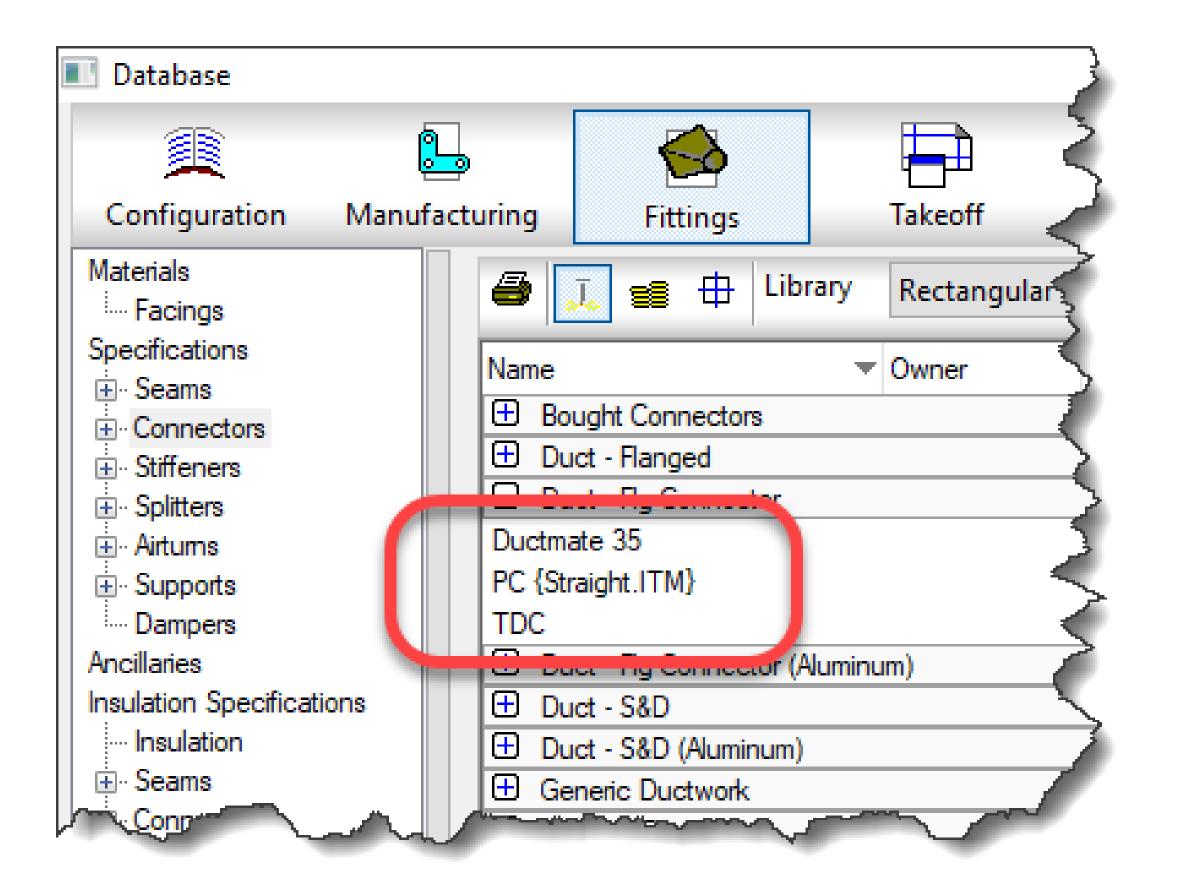
Don't use BMP files for ITM Images

- Use Export Scripts to review Image properties
- BMP Images slow performance when using Services
- Use any Image processing software to convert BMP file to PNG



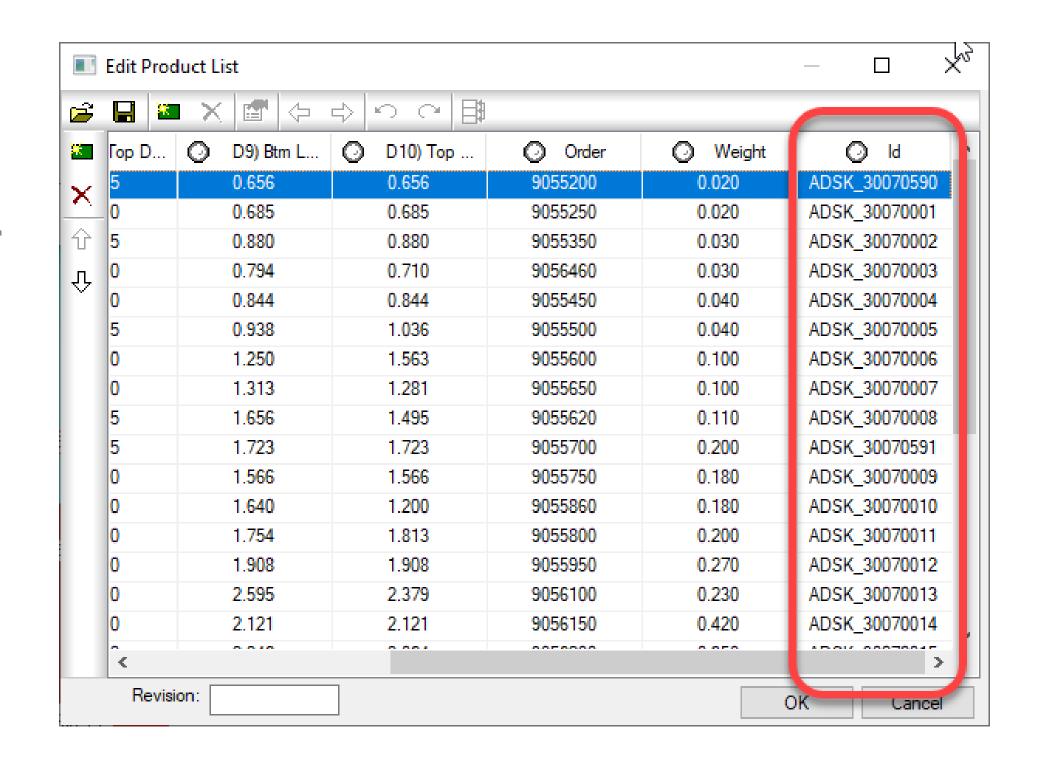
Don't leave proxy items in your fabrication database.

- Review Database Entries for {proxy}
 items
- Use PRUGEDB to find/remove proxy items
- Use Export scripts to find where problematic proxy items are used



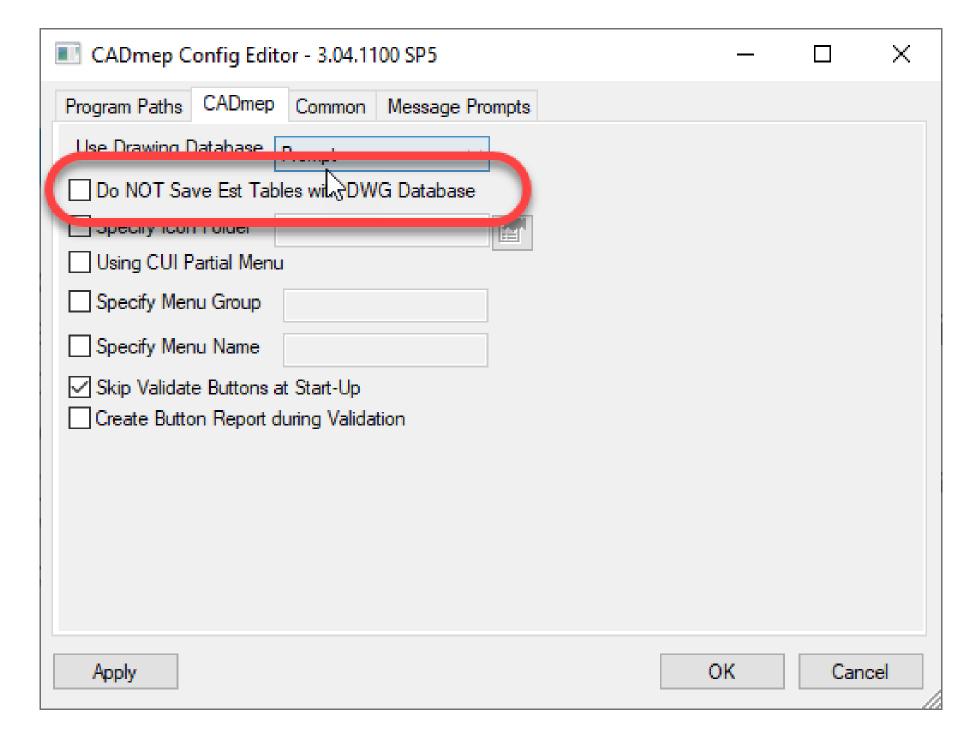
Make sure ALL of your ITM content has a Database ID assigned to it.

- Use Export Scripts to review ITM contact for database ID's
- When adding Database ID's, make sure to create entries in ProdInfo
- Add entries for Price/Labor tables if you're an ESTmep user
- Develop your own "ID Naming" scheme for your company and use consistently



Don't Store Estimating Tables in Your CADmep Drawing

- Use *Edit Config* to disallow EST tables from saving in your DWG
- Setting is "Windows Logon" specific, each user of a system needs the change
- Have IT push the change via Policy to the registry...



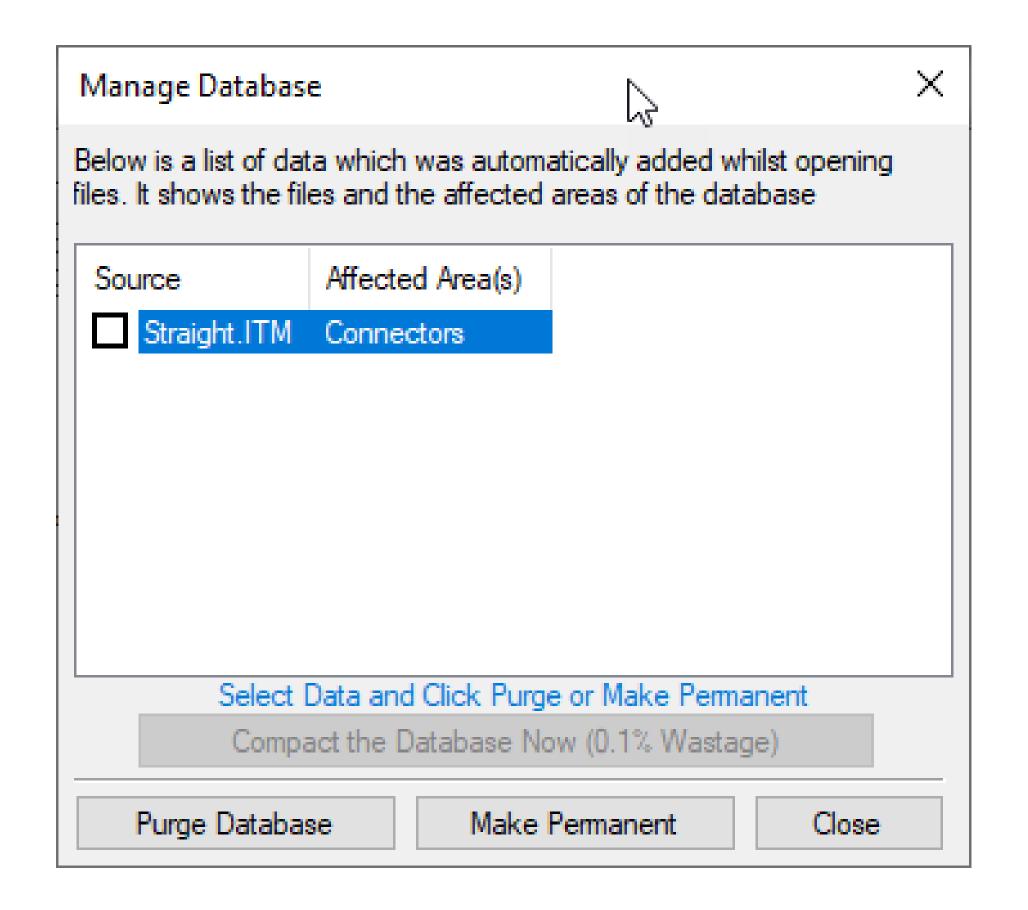
Key: HKEY_CURRENT_USER\Software\Autodesk\Fabrication ####\CADmep

Value: StoreEstDatabase

Data: False

Don't PURGE or COMPACT Your Database When In Use

- PURGE & COMPACTING is Good....if done properly
- Do NOT perform when others are using the Database



Don't work in a Live Sync'd Database

- It can be extremely risky to work in a Database that's sync'ing Live to other systems or the cloud
- Most syncing applications don't control the order of files when they are copied. If a file changes while it's being used, database idicies may get out of sync causing anomalies

Only ONE concurrent Database Administrator at a time

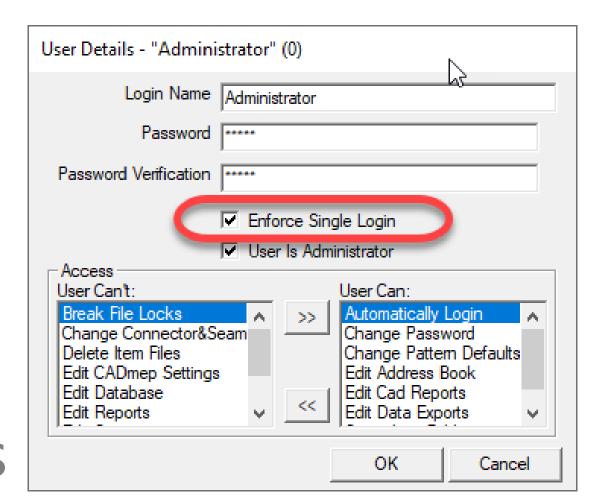
- Use *Configure Users* to limit DB Admin to a single user and concurrent login
- When multiple people Admin, "Last One In Wins" with changes
- ITM and Report Editing as exceptions if needed as each is a single file, not a

database table

• If you need multiple Admins, consider separate "Development" databases for

each Admin who then import their work into a "Master".

RoboCopy utility works well for this purpose.



Use the Same Version of software to Admin your Database

- Never use multiple product year software versions for Administration.
- As tables are updated with new data, older versions will strip those changes

Don't use Ancillaries with Breakpoints inside an Ancillary Kit

- When setting up ancillaries, don't use nested breakpoints
- Kits with Ancillary's using breakpoints are ok.
- Kits with Breakpoints using non-breakpoint ancillaries are ok.
- Breakpointed Kits using Breakpointed Ancillaries are NOT ok.

Don't nest Ancillary Kits (Kits within Kits)

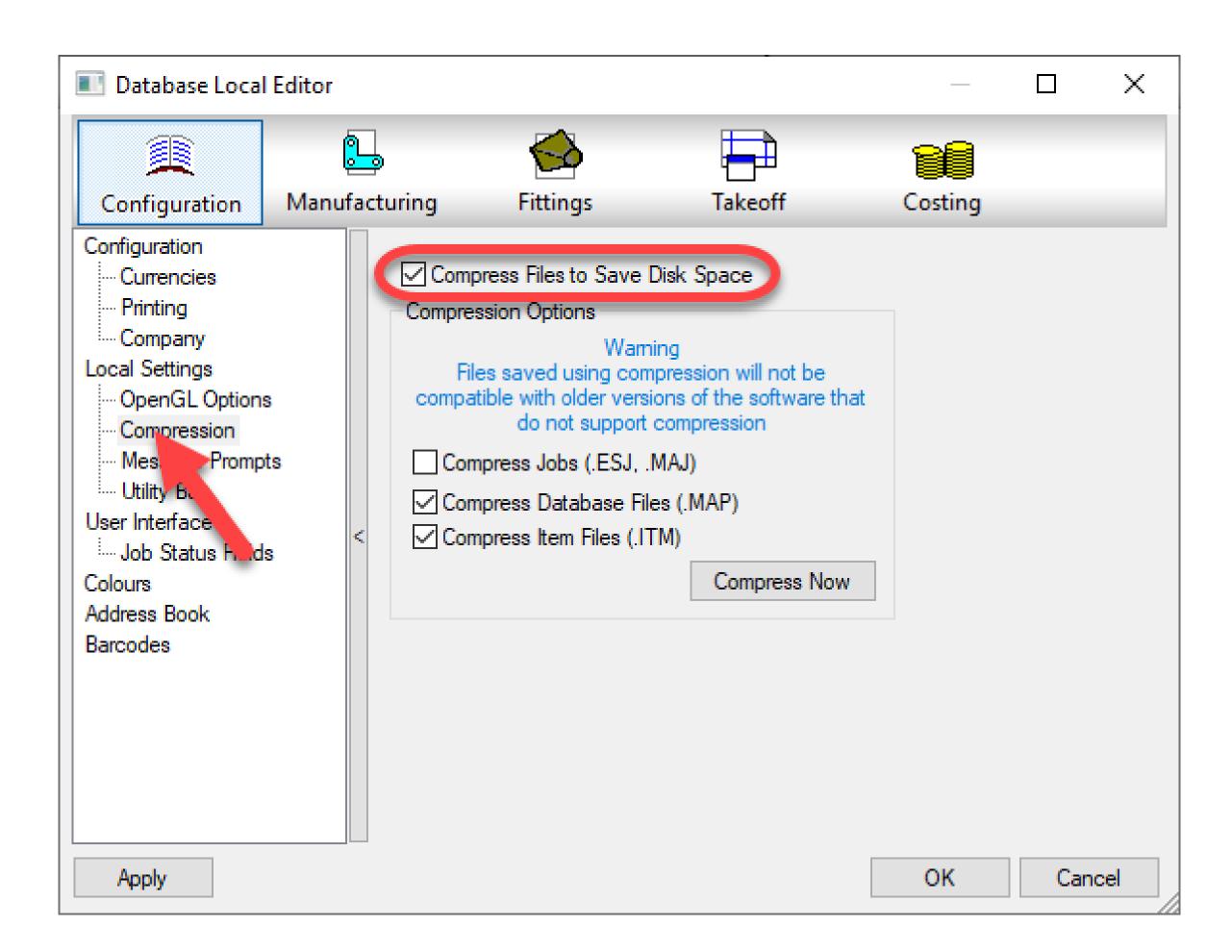
- Can cause issues with reports
- Confusing to understand your database structure

Eliminate all broken Service ITM's

- Use Path Repair Tool find broken button links
- Use SYSSCRREPORT command in CADmep to export Service data

Compress MAP Files

- Smaller footprint
- Faster loading/reading
- Defaults to not-compressed with each new version of software



Use a naming convention for everything in your database.

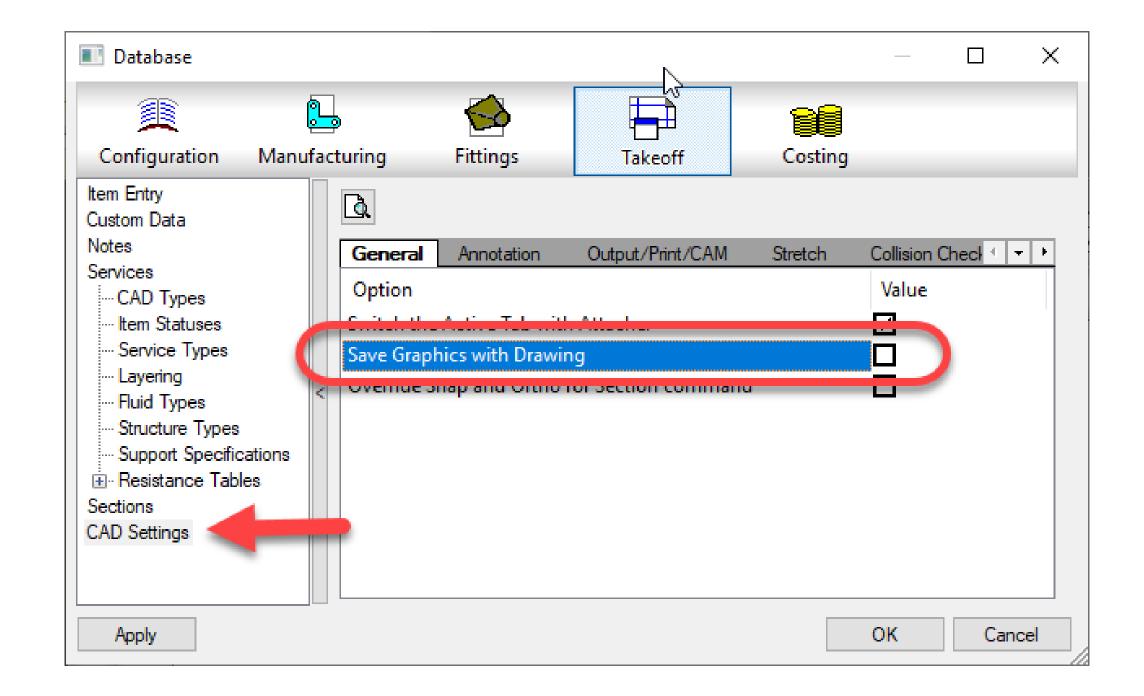
- Keeps your database organized
- Helps you think through future scenarios

Use a Fresh load of CADmep, for Administration

- Proxy items can get "Stuck" in your database
- Ensures no erroneous data from other drawings get added

Disable "Save With Graphics" in CADmep unless needed

- Make DWG files MUCH smaller
- Use only for DXF/DWG exchange with others using Non-Autodesk products.
- Set in separate database copy or when others are not using the database.



Learning Objectives - Review

✓ Learn how to perform QA/QC on your database

✓ Learn about identifying and fixing issues

✓ Learn about proper routine maintenance

✓ Learn things not to do

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