CS500041

Best Practices for Autodesk's Fabrication Software

Darren Young

Learning Objectives

- Discover the common issues that most databases have within them.
- Learn why these issues are important
- Better understand why what's working now may be a problem in the future
- Learn how to fix issues without breaking your existing models

Description

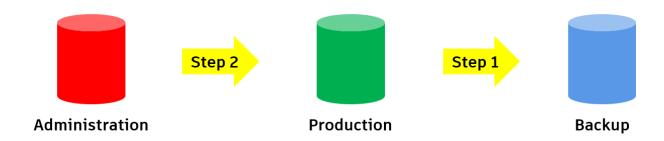
Autodesk's family of Fabrication software is robust, flexible and . . . fragile. It's also changed over time. There are things you may be doing that work well now but won't in the future. There are things you have configured which will make it hard to continue advancing your usage. Over the years, the speaker has developed a list of best practices—things you should and shouldn't do. Want to learn what you should start doing or stop doing and how to find out if they apply to you? This session is for you.

Speaker(s)

Based in Washington state, Darren Young has been a veteran Autodesk University speaker for well over a decade. His unique ability to leverage multiple every day technologies in interesting ways to solve complicated and laborious tasks has been valued by users around the world. Down to earth and approachable, he's always willing to help his peers anytime of the year even outside of Autodesk University. Darren's background includes a wide variety of disciplines such as Construction, Engineering, Manufacturing, LEAN, Information Technology, Computer Programming, Author and Technical Editor. His lectures and labs are not just a training opportunity for others but a venue which connects him personally with users helping him learn as well.

Separate Production and Development

Users reference a different database than where you do your administration

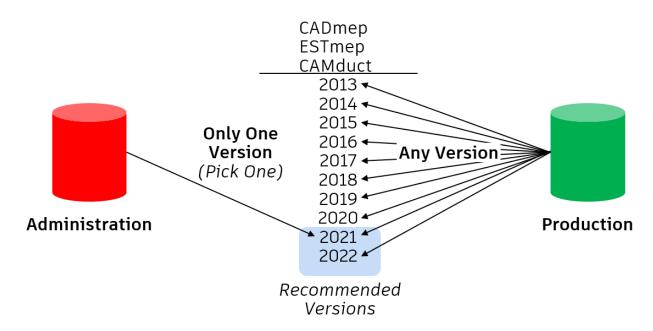


Options:

- Manual
- Robocopy
- Applied Software (<u>www.asti.com</u>)

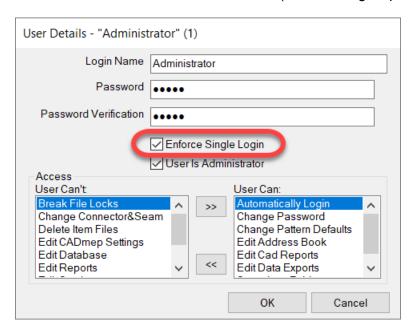
Single Version for Administration

Always use the same version to Admin your Database



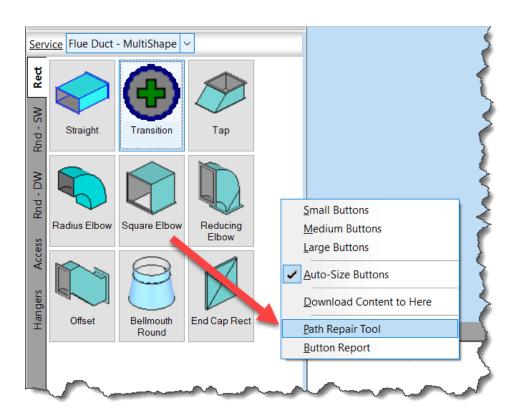
Single Administrator at a Time

No Concurrent Database Administrators (not including Reports or ITM's)



Fix Broken Services

Make sure all Services have valid buttons

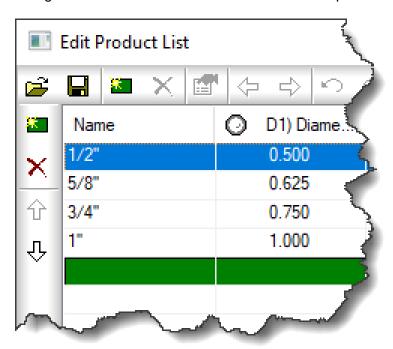


Don't Use Non-Standard Characters

Using characters can cause unpredictable results.

Don't Use Double Quotes

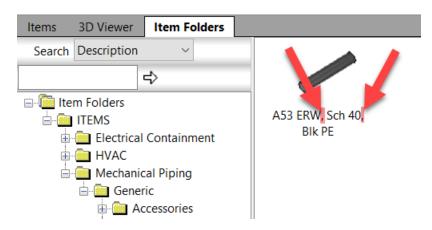
Using Double Quotes for Inch Marks or Other Purposes Cause Export Issues



- 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 to Excel
 - Specifications (Sheetmetal)
 - ITM File names
 - Product List Names
 - · Material names, etc.

Don't Use Commas

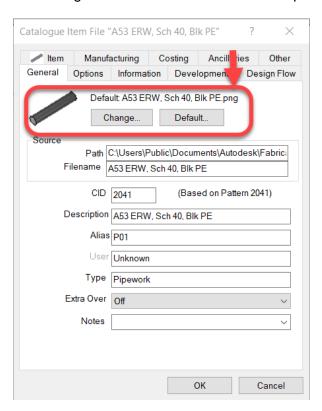
Using Commas in Files, Paths or Names Corrupts Data Exports



- 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.

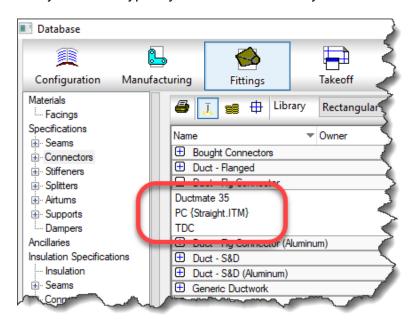
Use PNG (not BMP) for Images

BMP Image Slow Performance and Take Up Extra Space



Clean Up Proxy Items

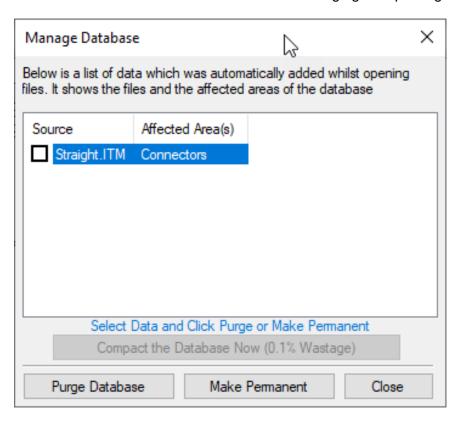
Proxy Items are typically added unintentionally



- Use Export Scripts to review data in Excel. https://tinyurl.com/COD-Script-Library
- Remove or Make Permanent
- Use PURGEDB to Clean/Remove

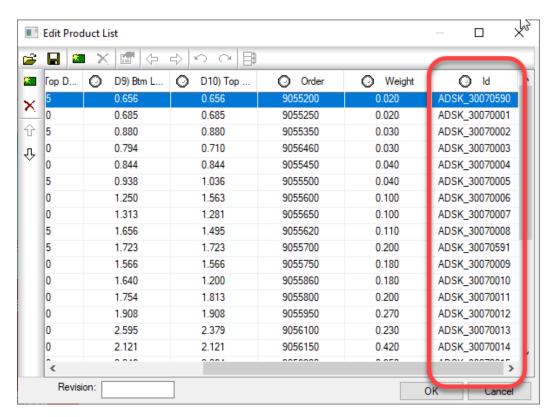
Don't Purge/Compact Database While In Use

Ensure No Users are in the Database Before Purging/Compacting



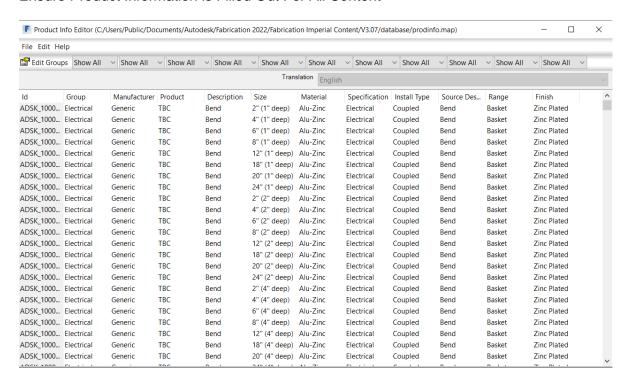
All ITM's Should Have Database ID's

Create Database ID's for all ITM's and Product Lists



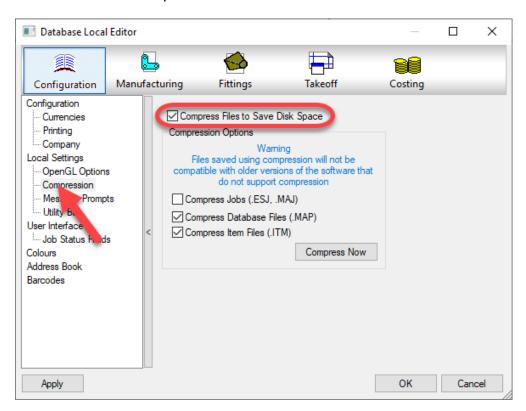
Add Content Should Have ProdInfo Entries

Ensure Product Information is Filled Out For All Content



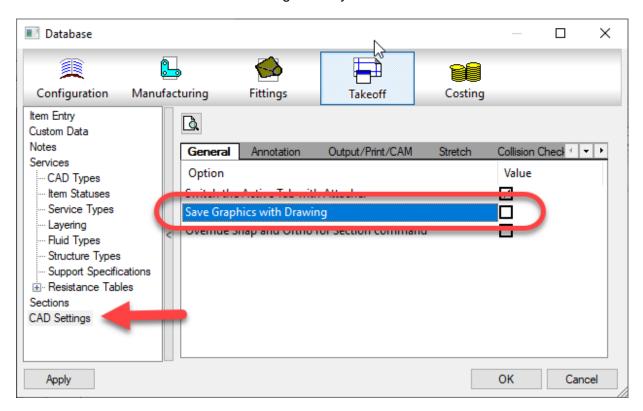
Compress Data Files

Ensure Database Compression is Turned On



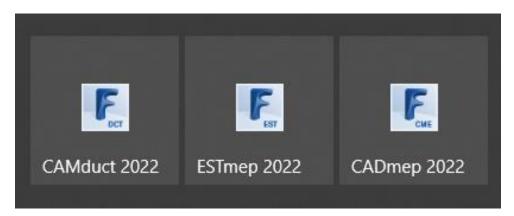
Disable Save with Graphics

Will Increase AutoCAD DWG File Size Significantly



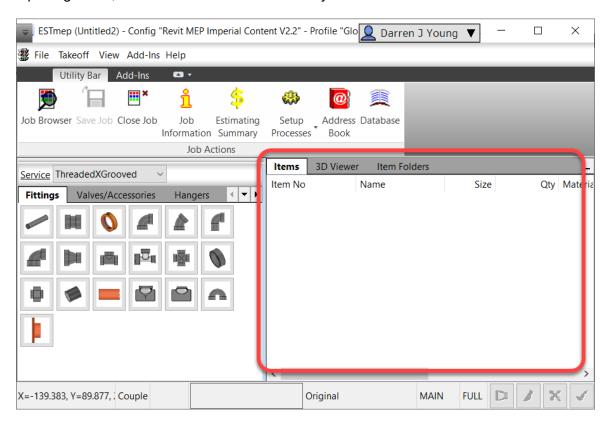
Administer Database from NEW Launch

Load CADmep/ESTmep/CAMduct Fresh Before Administering Database



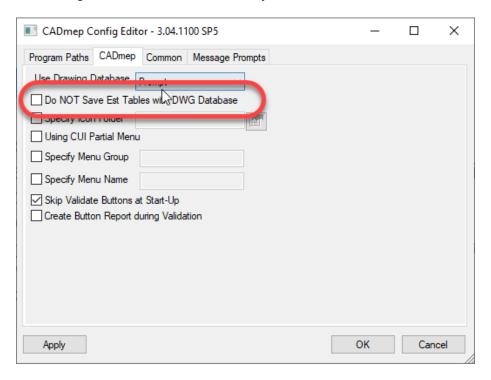
Don't Open Data While Using Administer

Opening DWG, MAJ or ESJ's Can Create Proxy Items



Don't Store EST Data in DWGs

Estimating Data is Stored in DWG's By Default



- Setting is Specific to Each Logged In User
- Setting is Specific to Each CADmep Version
- IT can push settings in Registry

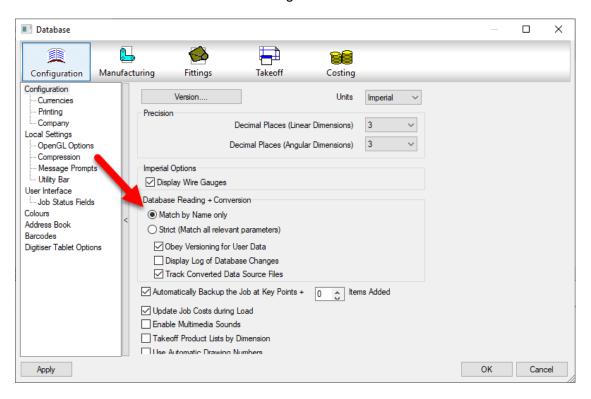
Key: HKEY_CURRENT_USER\Software\Autodesk\Fabrication ####\CADmep

Value: StoreEstDatabase

Data: False

Match By Name Only

Database Should NOT Use Strict Matching



Naming / Organization Standards for Everything Everything Should have a Naming Standard

- ITM's
- Services
- Connectors
- Materials
- Ancillaries
- Cost Tables
- Database ID's
- ProdInfo Data
- Specifications
- Folders
- ...etc...

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