# Setting up your Inventor Library and Content Center

Hosted by: Mark Lancaster

SU 17

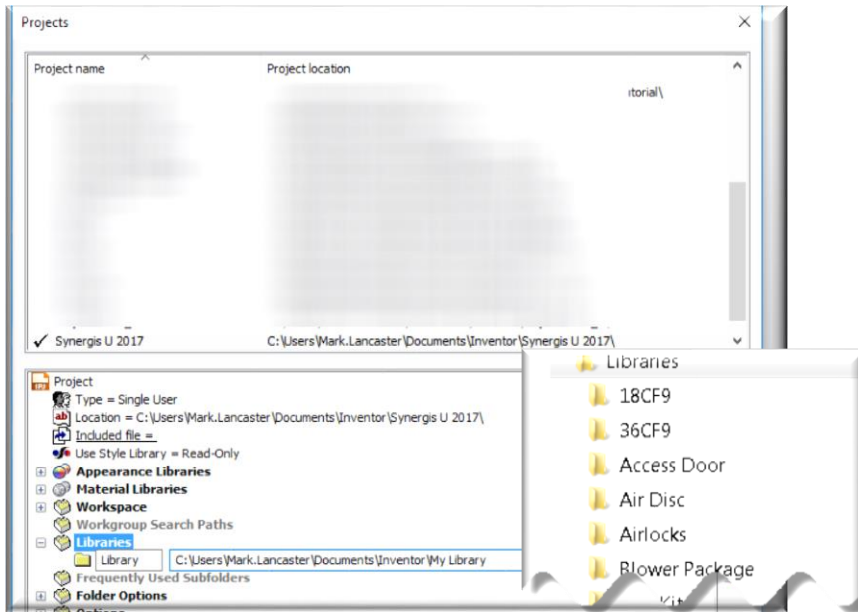ENGINEERING DESIGN SOLUTIONS

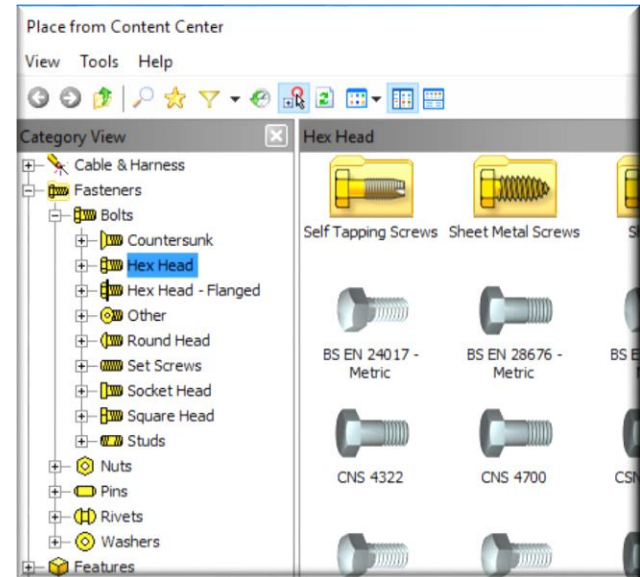SYNERGIS UNIVERSITY

# Agenda for today

- **Knowing the difference**

- **Configure your library**

- **Configure your content center**

- **Good to know**
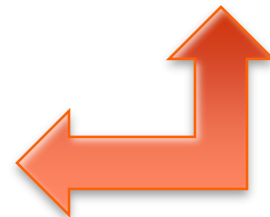
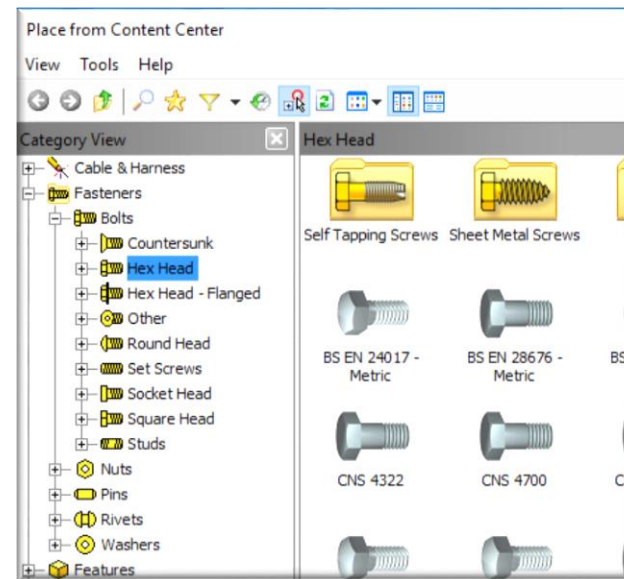- **Publishing content**
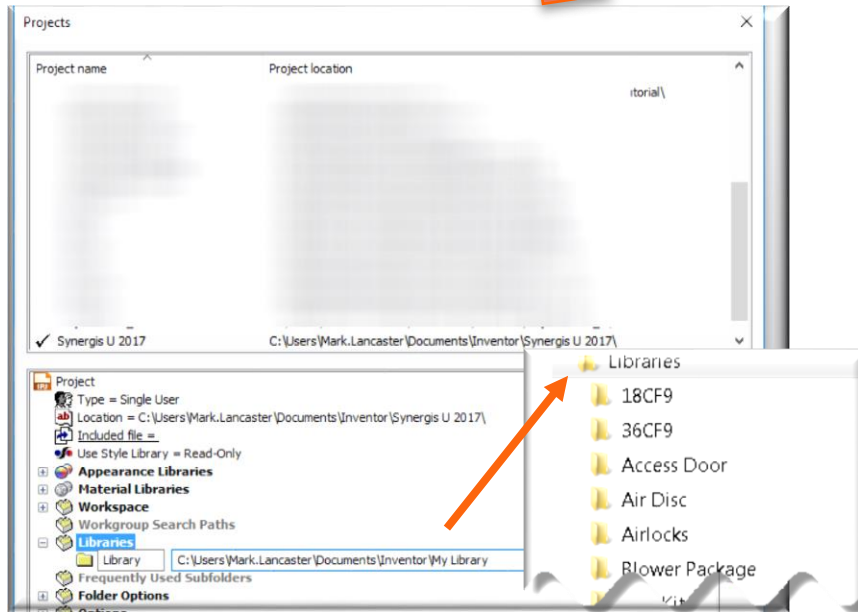
# Knowing the Difference



## Which one to use?

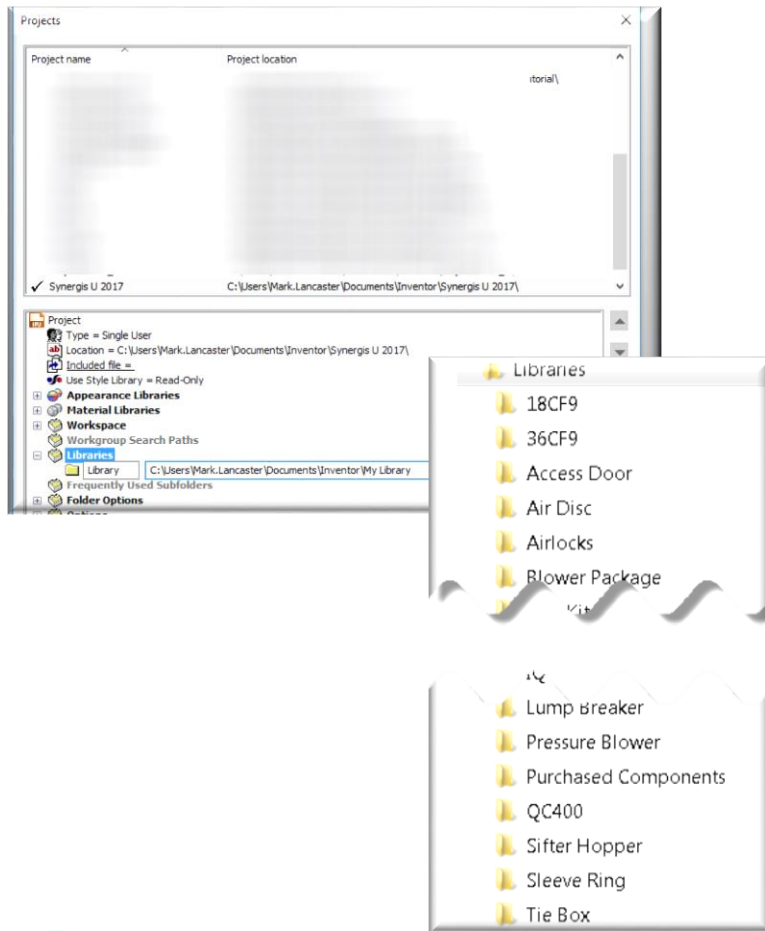Inventor Content Center

Inventor Library
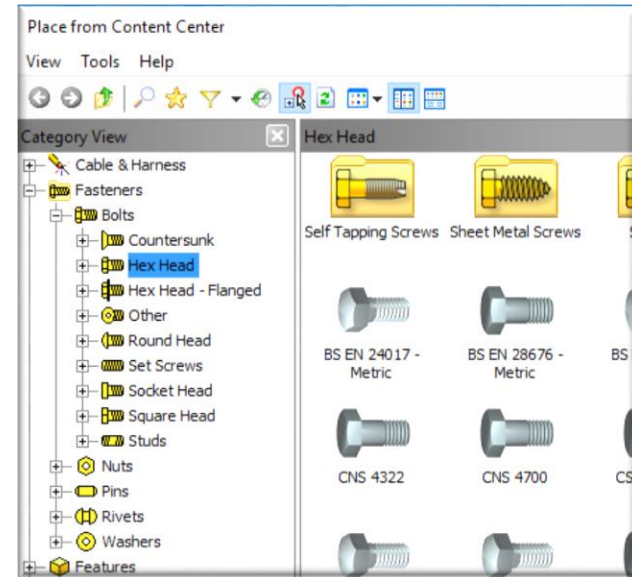
# Inventor Library

# Knowing the Difference

## Inventor Library

## Inventor Content Center

# Inventor Library

- **User Defined/Managed**

- **Based on**
  - **Components not (really) changing**
  - **Company standard components**
  - **Commonly purchased components**

- **Single part/iPart/iAssembly configuration**

- **End User: Read/Write or Read Only**

# Pros/The Positives

- **Easy to setup and managed**

- **Based on parts and assemblies**

- **Location to manage iPart Children**
  - **41 min @ https://www.youtube.com/watch?v=glcn601F6TQ**

- **Updates are**
  - **Easy to apply**
  - **Applied to End User**

# Pros/The Positives

- **Simplified process – working w/iLogic**

- **Migration to newer version - simply**

- **Read only**

- **Used for Tube & Pipe/Cable & Harness**

- **Easy to share with 3rd parties**

# Cons/The Negatives

- **Its not really read-only**
  - **Requires Windows Security**

- **Need 2 project files to manage it**

- **Easily**
  - **Modified – impacting standard**
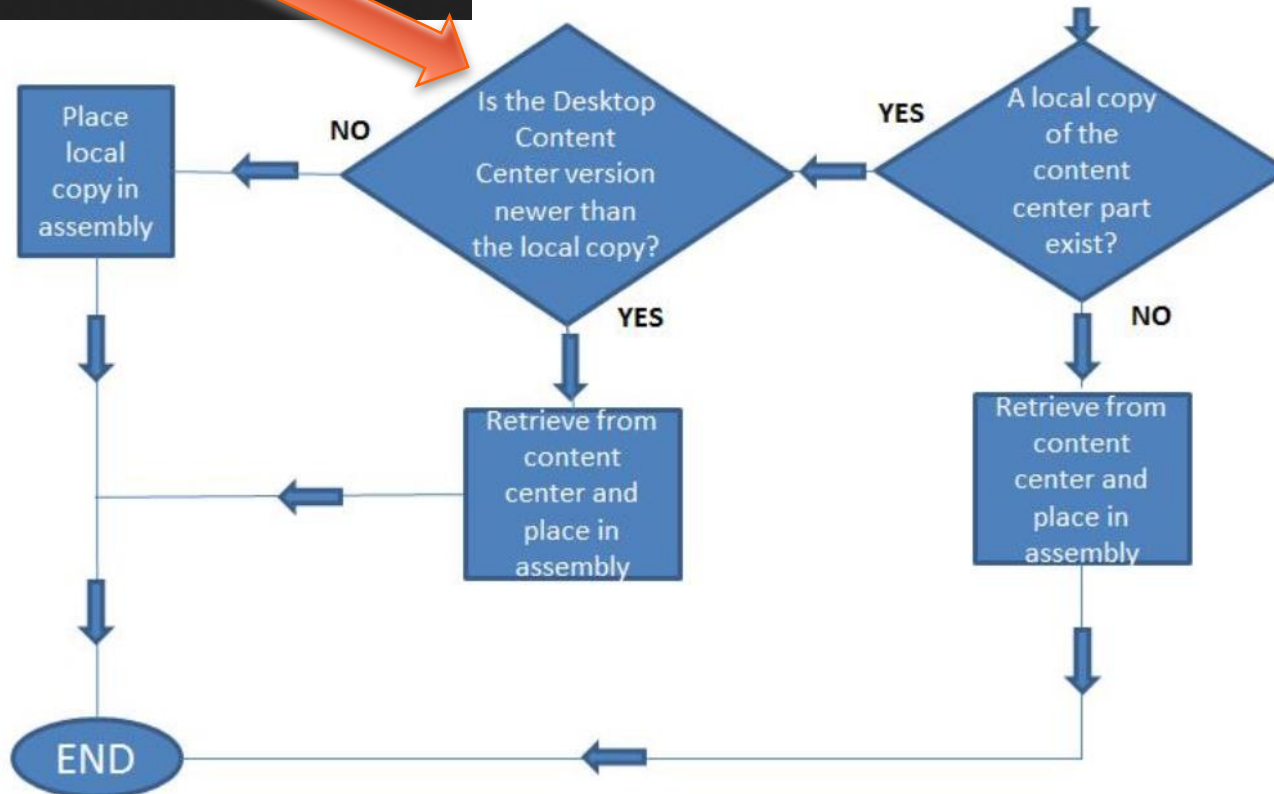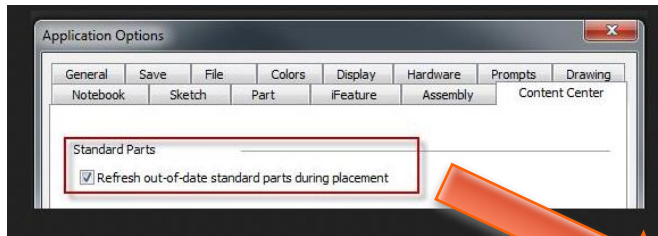  - **Deleted**
  - **Relocated**

# Inventor Content Center

- **Part of the (Inventor) installation**
  - **Vault:  Separate installation**

- **Commonly purchased components**

- **¾ of million parts provided**
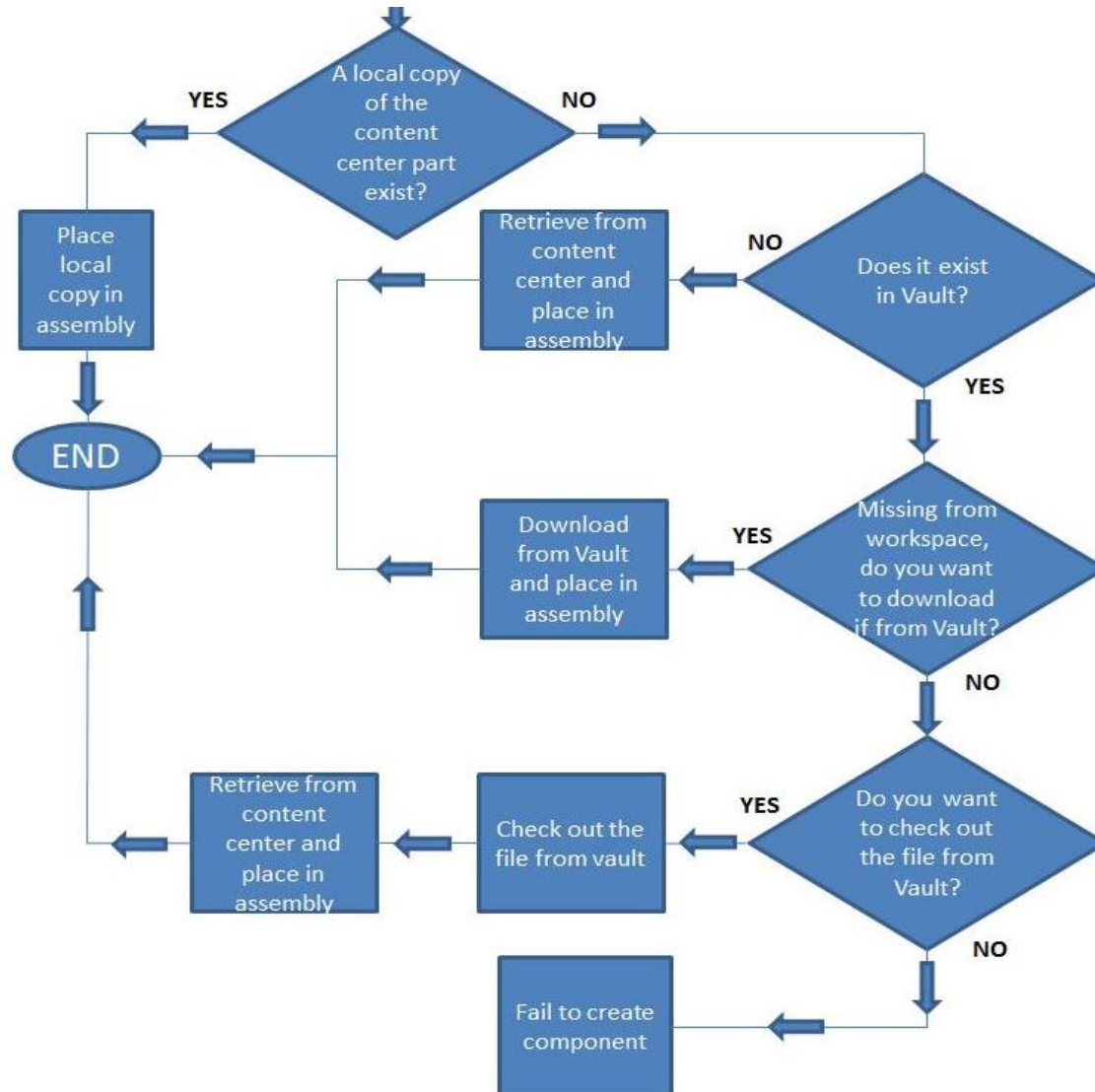
- **18 International Standards**

# Inventor Content Center

- **Contains Hardware, Structural, Piping, Sheet Metal/iFeatures/Shaft Components**

- **End User: Read-only**

- **Content Center does not maintain the actual 3D model**

- **Overall hasn't really changed since introduction**
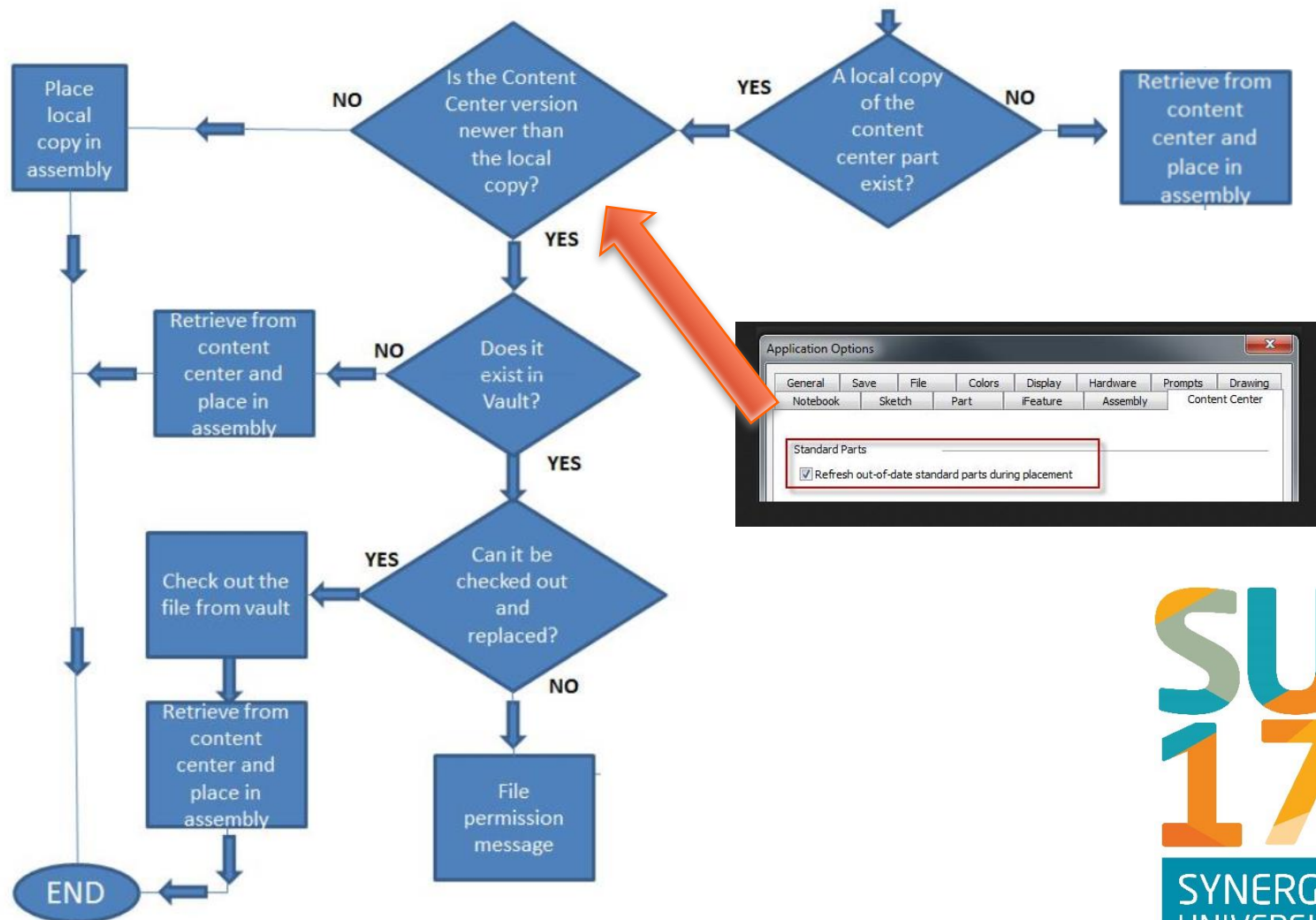
# Inventor Desktop Content Center

# Inventor Vault Content Center

# Inventor Vault Content Center

# Pros/The Positives

- **Provided content**

- **Better control – Vault Content Center Only**

- **Needed for**
  - Frame Generator
  - Design Accelerator
  - Tube & Pipe
  - Cable & Harness

- **Place as custom**

# Cons/The Negatives

- **Publish/Authoring workflows**

- **Provided Content – Read Only**

- **Setup process**

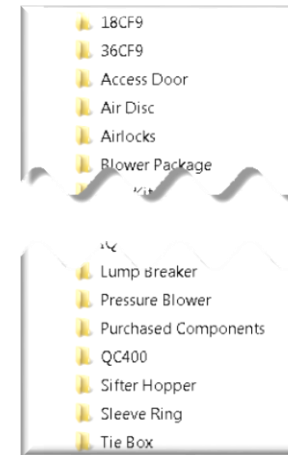- **Not always easy to share with others**

# Cons/The Negatives

- **No locks → First come, last served**

- **Updates**
  - **Certain modifications not allowed**
  - **Not applied to End Users**

- **Set in stone – not easy to relocate/redo**
  - **Looks like Windows Explorer but it doesn't function that way**
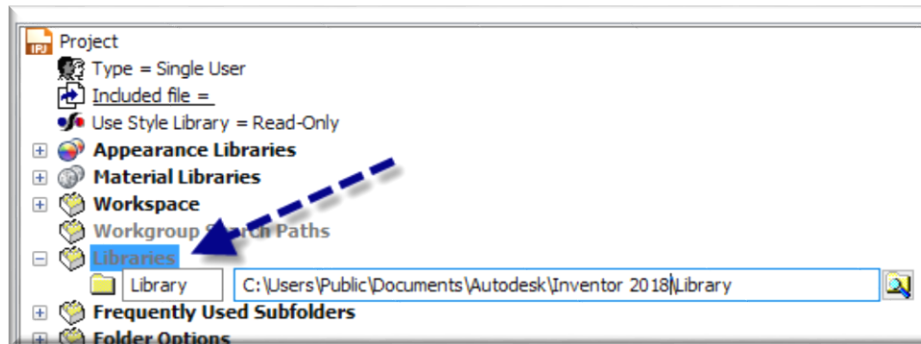
# Cons/The Negatives

- **Not viable interface for Company standard components**

- **Assembly standards not supported**

- **Migration Process/Next Release**

- **Limited "How To" information**

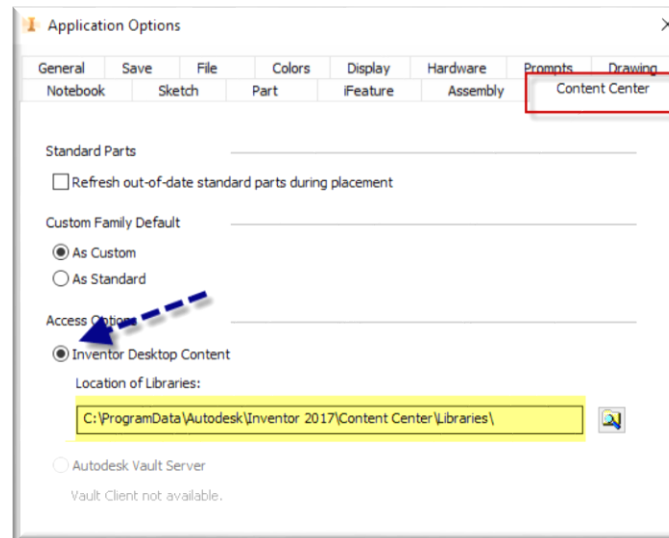# In 3 Easy Steps

- **Create Library Folder Structure**

- **Define the root folder structure – Inv Proj**

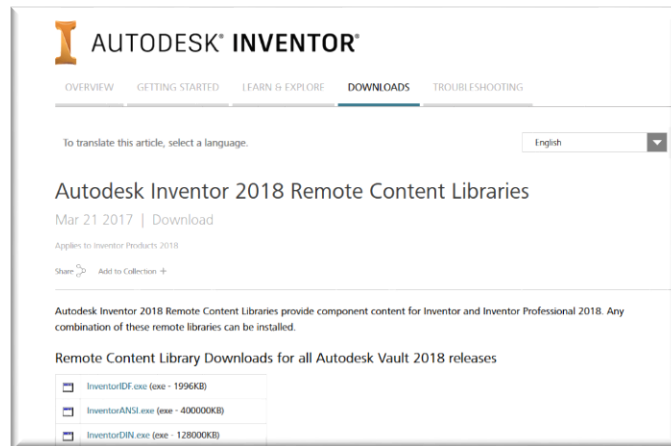- **Create/store parts/assemblies in location**

# >>DESKTOP VERSION<<

- **Installed per Inventor installation**

- **Sharing – Place in a common location**
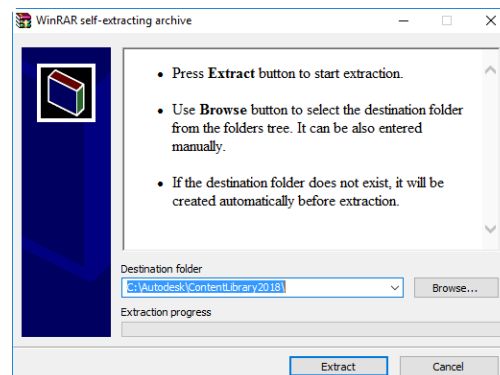
- **Define per Tools/Application Options/Content Center tab**

## >>VAULT VERSION  (SERVER)<<
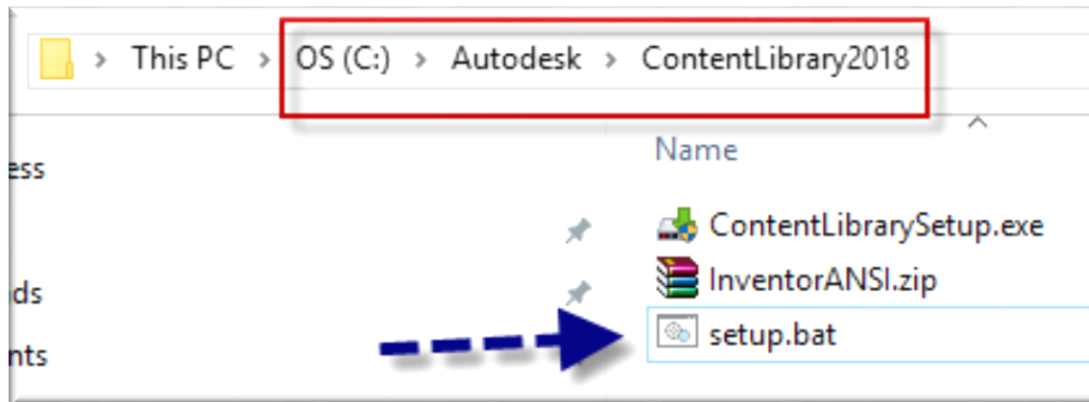
- ### Server: Download via web (Remote CC)



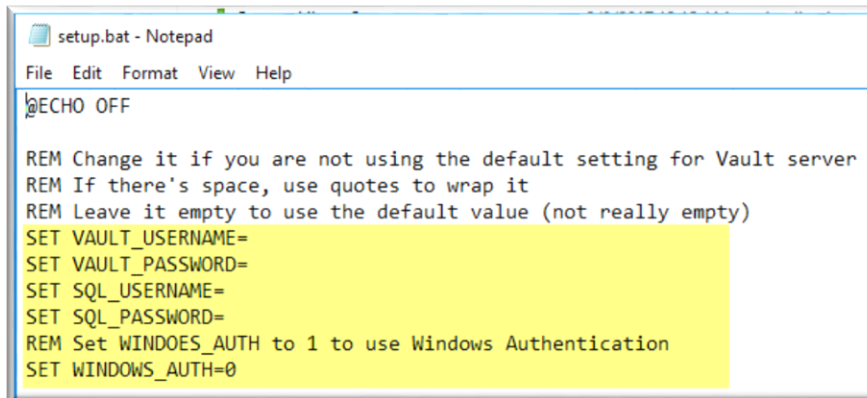- ### Extract individual downloaded files

# >>VAULT VERSION (SERVER)<<

- **Close ADMS Console ← Very Important**

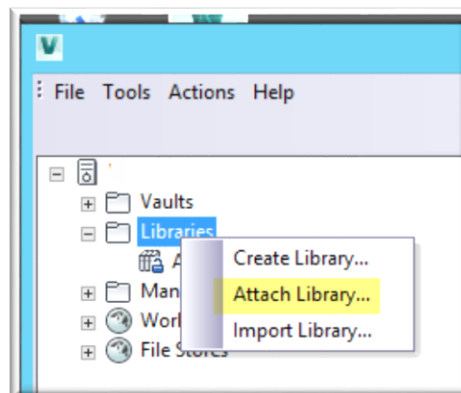- **Run setup.bat in the extracted location**

# >>VAULT VERSION (SERVER)<<

- **Depending on credentials/modification reqd**



- ***Manually attach the libraries via ADMS**

# Here are some items to consider

- **Have a plan/milestones**

- **It should be a controlled environment**

- **Small group of people (2 to 4) in-charge of managing and defining this environment.**

- **Allowing too many to participate leads to issues**

- **Measure your success and revisit as needed**

## Here are some items to consider

- **Libraries and Content Center**
  - **Unique naming convention**
  - **Backup libraries**
  - **Build structure wisely**

- **Content Center**
  - **Always copy existing categories before creating your own**
  - **Family table can be of a single entity**

# Here are some items to consider

- **Content Center**
  - **Do not include parts**
    - **Often changing**
    - **Overly complicated**
    - **Too much information**
    - **Requiring iLogic**
  - **Keep separate/not like specifications**
  - **Certain categories require additional data**
  - **Grey out info – belongs to read only info**

# Here are some items to consider

- **Vault Content Center**
  - **Assigned Vault Content Center Role**
    - *Vault Admin*
      - **Full content center access**
    - *Content Center Admin*
      - **User ability to create the read/write library**
      - **Content Center editing**
    - *Content Center Editor*
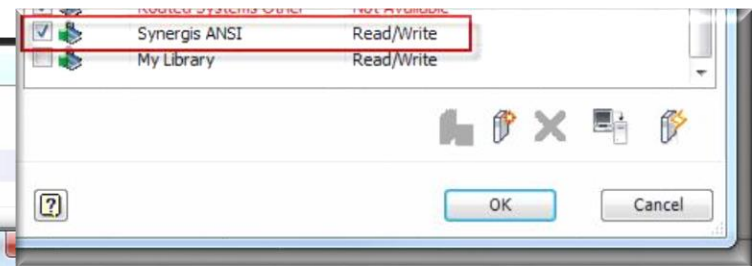      - **Only content center editing**

# Create Desktop CC Custom Library



**Step #1**
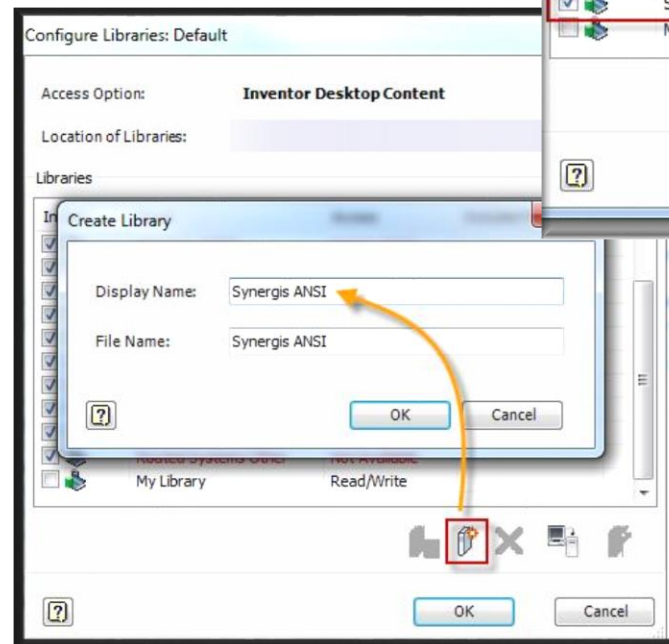
Access Inventor Project File/Edit State
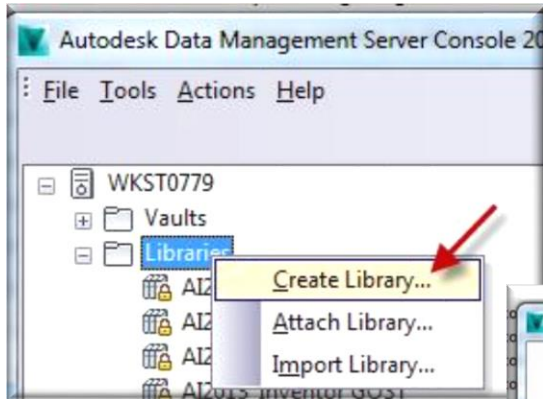
Configure Content Center

**Step #2**

Create Library

Enter Display and File Name

Enable it

# Create Vault CC Custom Library



### Step #1

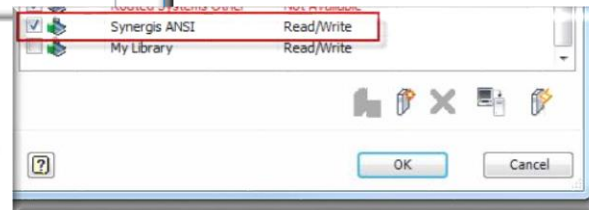Access ADMS Console per a Vault Admin or Content Center Admin Account

Create Library/Assign Display Name/Assign Partition
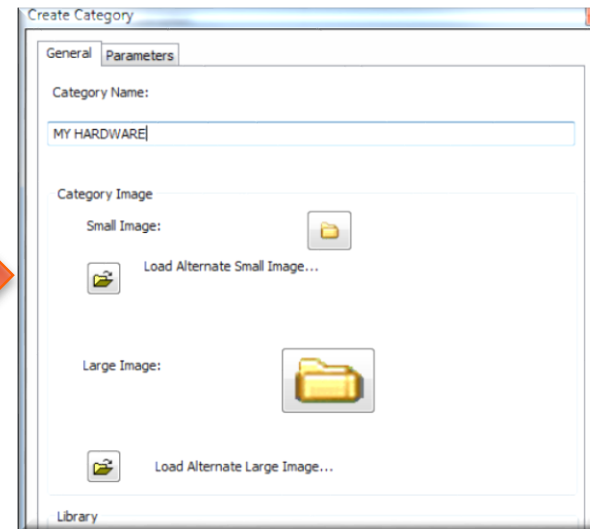
### Step #2

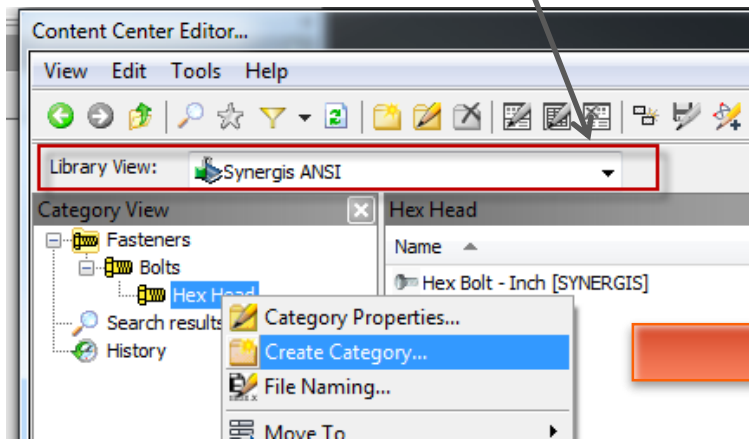Access Inventor Project File/Edit State

Configure Content Center/Enable it
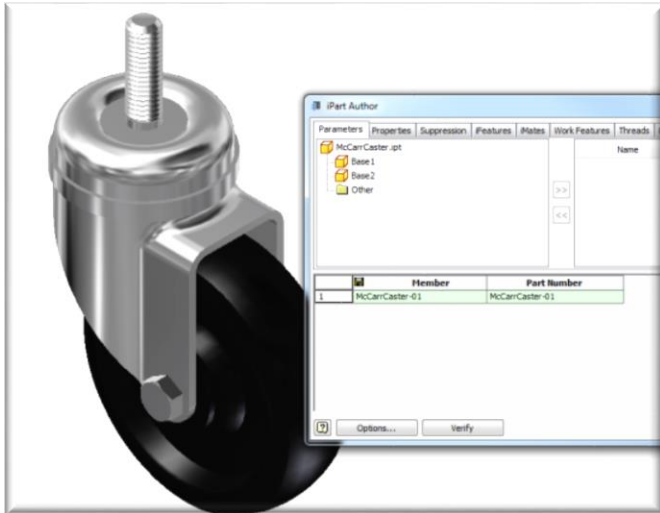
# Step #1: Create your Category/Location

*Set your library view to your read/write library in order to create your categories*
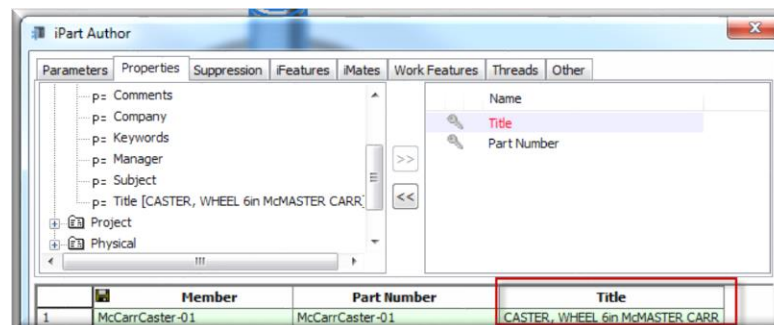
PLAN AHEAD!!!



- Copy from existing before making your own
- Design Accelerators – Under Hardware/Shaft Parts
- Frame Gen – Under Structure Shapes
- Routed Sys – Under Tube & Pipe
- Cable & Harness – Under Cable & Harness
- IDF – Under IDF

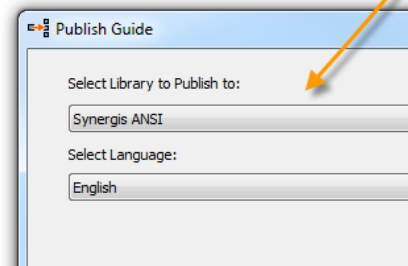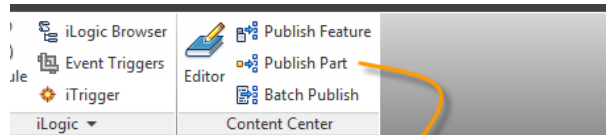# Step #2: Define the Actual Part



- Model (or download) your content center component
- Define parameters/iProperties
- Create an iPart
  - Create an unique member name
  - Always include the Part Number field
  - Only add information that will change
  - Define at least one row
  - Keep it simple
- Set color scheme to "Presentation", turn off sketches, work planes, axis, and points
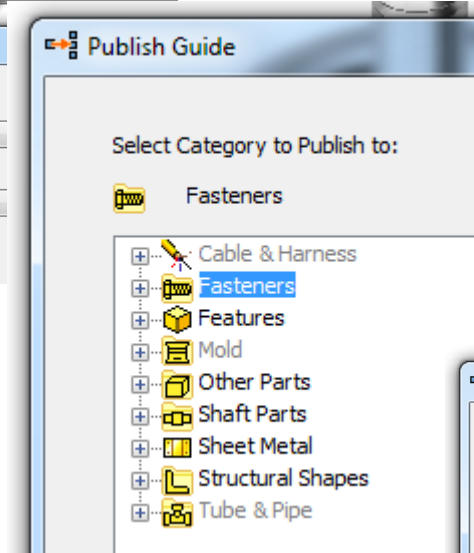- Save your iPart

*If you downloaded a model and there is no information needed in table, add at least one iProperties to it*
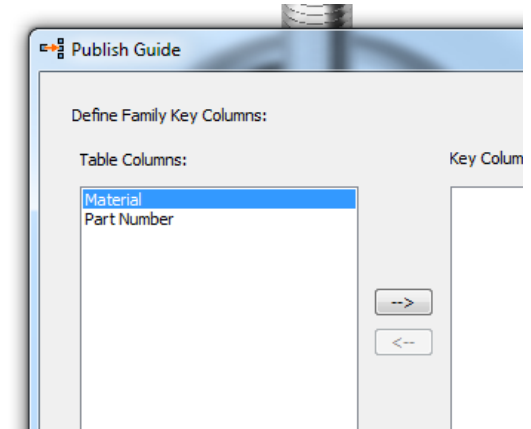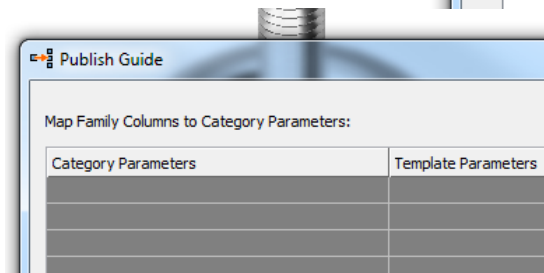
# Publishing Content

# Step #3: Publish Part
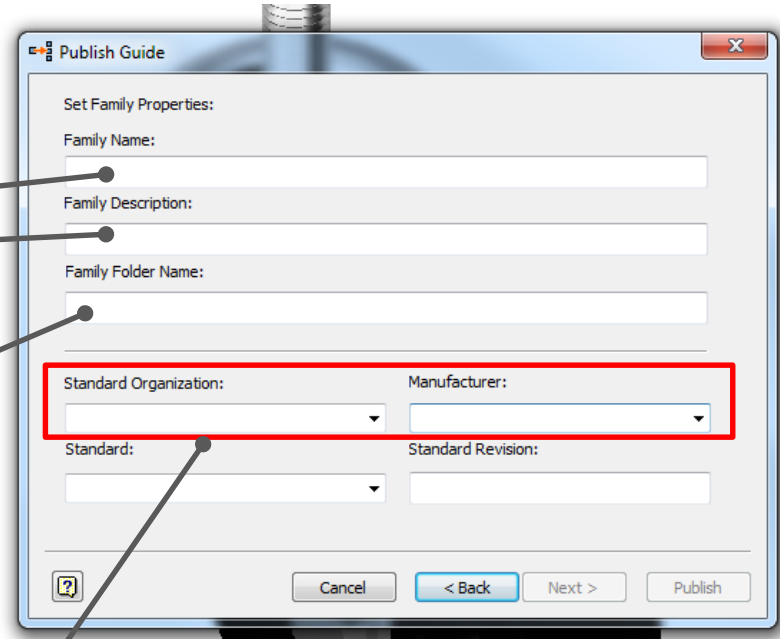


Publish Part

Location (Category)
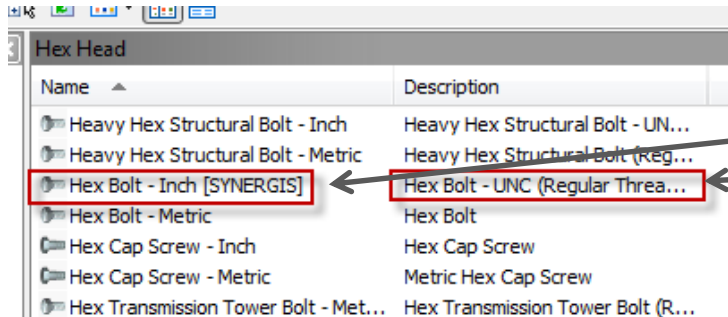
Mapping Category Parameters
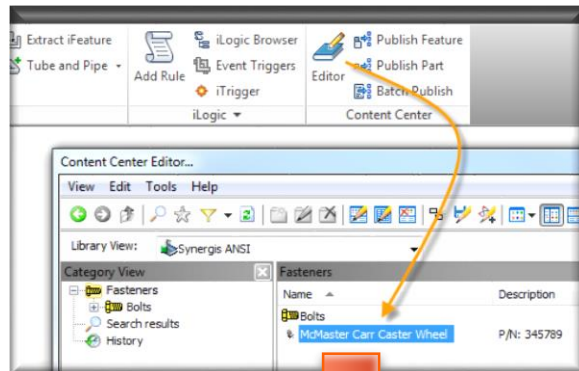(Component, Structural, Tube & Pipe, Cable and Harness, and IPF)
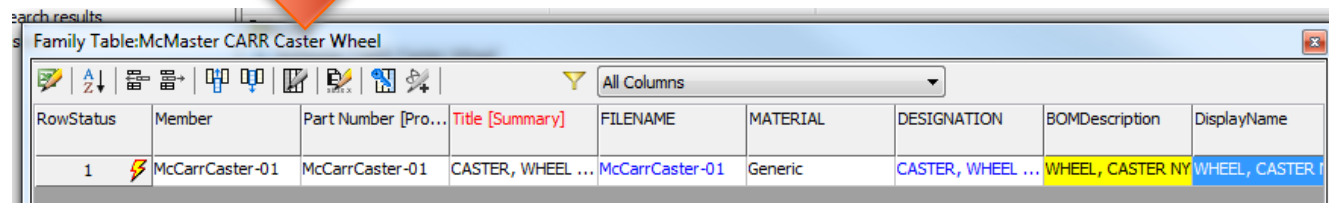
Key Columns

# Step #3: Publish Part



Family Properties

*Same folder name can be used as long as there are unique member names residing in it*

# Step #4: Setting up Family Table



- ***Communicate to your team you are editing a family table***
- If required, create all necessary columns
- Set up column expressions/mappings
- Define your key columns
- Unique file name
- Take advantage of Member.DisplayName
- Add members/row information
- Don't hit <ESC> (escape key)
- Apply changes offten
- Watch your Vault inactive time.

# FINALY THOUGHT...

**Need in-depth training for Inventor Content Center and/or Library Configuration?**



**Synergis Engineering Design Solutions regularly sits down with customers to develop an implementation and training plan that is tailored to meet your needs.**

**If you interested in having a copy of my Content Center Management Document and/or this presentation, please send a request to Mark.Lancaster@Synergis.com and I will gladly share this information with you.**

# Q&A Session