

PL11424 - An Introduction to Vault

Adam Luttenbacher
Principal User Experience Designer

Mikel Martin
User Experience Architect

Your Instructors



Adam Luttenbacher

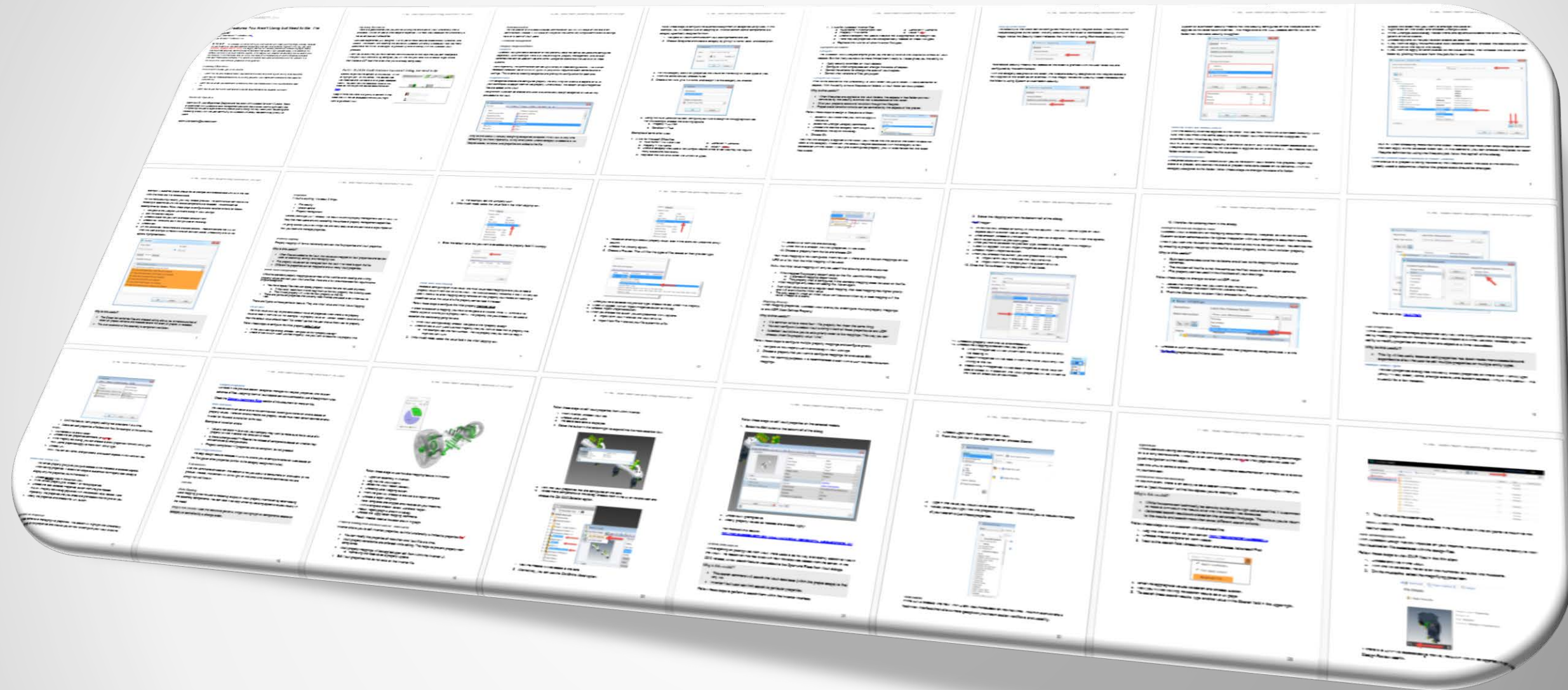
- Worked at Autodesk for 13 years
- AU veteran
- User Experience, Product Design and Quality focused



Mikel Martin

- Worked at Autodesk for 9 years
- 10th Autodesk University
- User Experience Architect
- Co-creator of Vault revisions, lifecycles, and categories

Pay Attention!



We wrote everything down for you.

Session Feedback

- Via the Survey Stations, email or mobile device
- Best to do it right after the session
- Instructors see results in real-time



Class summary

2 questions you should ask:

- Do you know what Vault software is?
- Do you know why you should use it?

This class will:

- Answer these questions
- Give an introduction to the Vault software as it applies to **YOU**
- Give an overview of the Autodesk Vault products

Warning! This class is not intended for Vault power users.

What's the Point?

Knowing **why you use the Vault** can be just as important as **how to use the Vault**.

Key Objectives

- Discover why you need to use Vault software and how it fits into your workflows
- Gain a foundation of Vault software knowledge that will help you to use it to its full extent
- Understand the differences between the Vault software products from Autodesk, and identify the most suitable fit for you
- Learn how to use real-world examples and course documentation to educate your team

One Source of Truth



One Source of Truth

Dan Designer



- Collaborates with design team
- Does not use Vault
- Designed a model based on out-of-date designs

Sam Onelse



- Responsible for manufacturing components
- Trusts Dan's designs
- Manufactured Dan's out-of-date design

One Source of Truth

Problem

- There can only be one “truth”
- Collaboration without control creates multiple copies
- Dan has no safety mechanisms
 - Indicators
 - Blockers
- Sam has access to all data



One Source of Truth

So What?

With Autodesk Vault, Sam and Dan get:

- “One source of the truth”
- Reservations
- Clear indicators when data is out-of-date
- Controlled access – complete

Demo

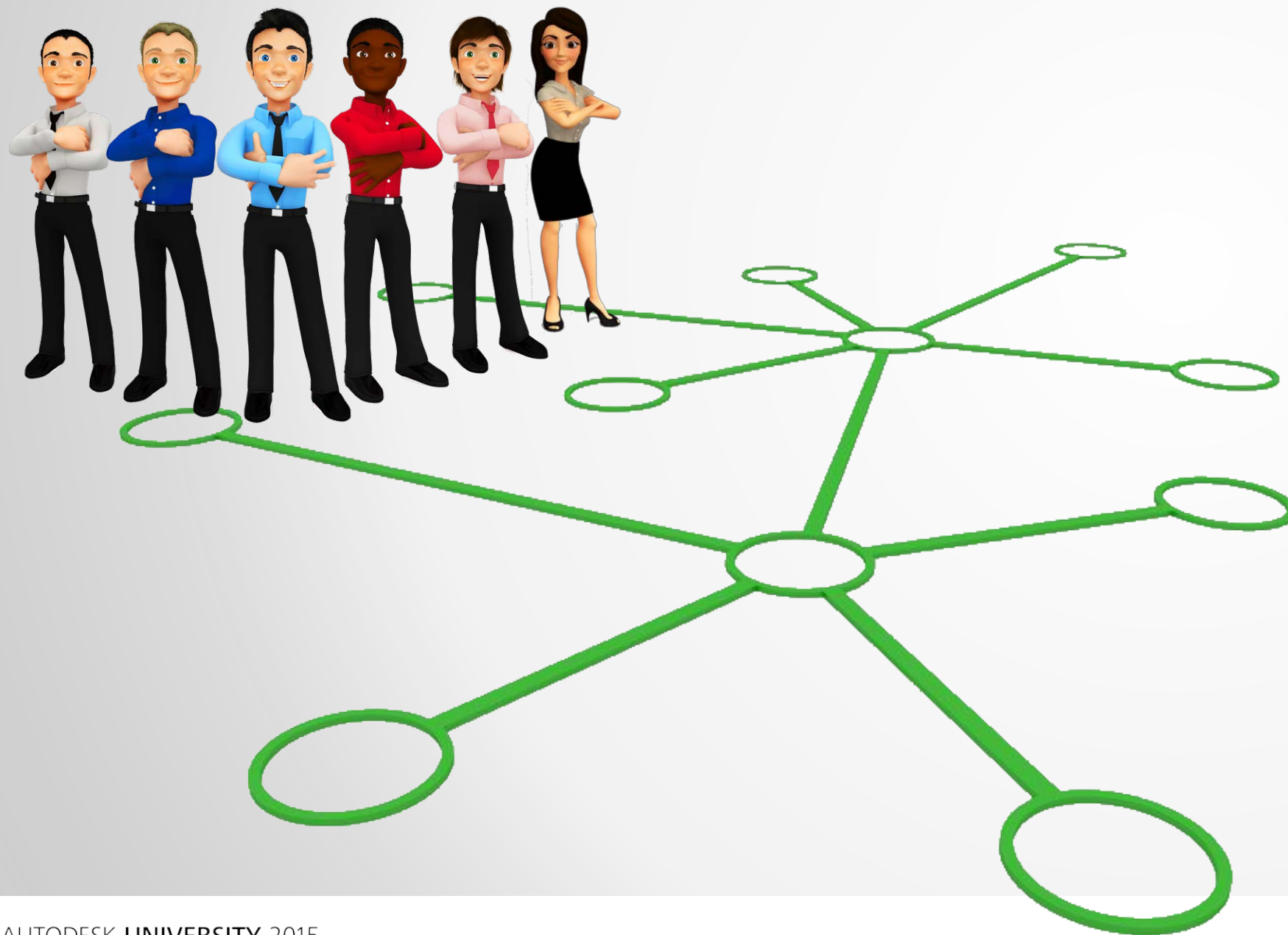


Go Back in Time with Vault

Vault remembers all

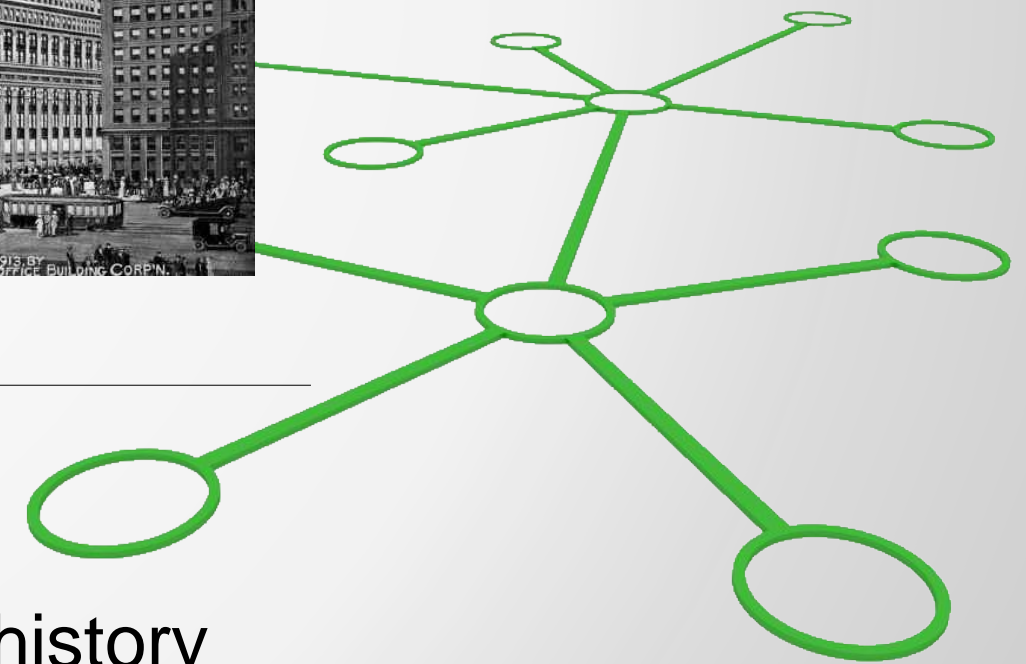
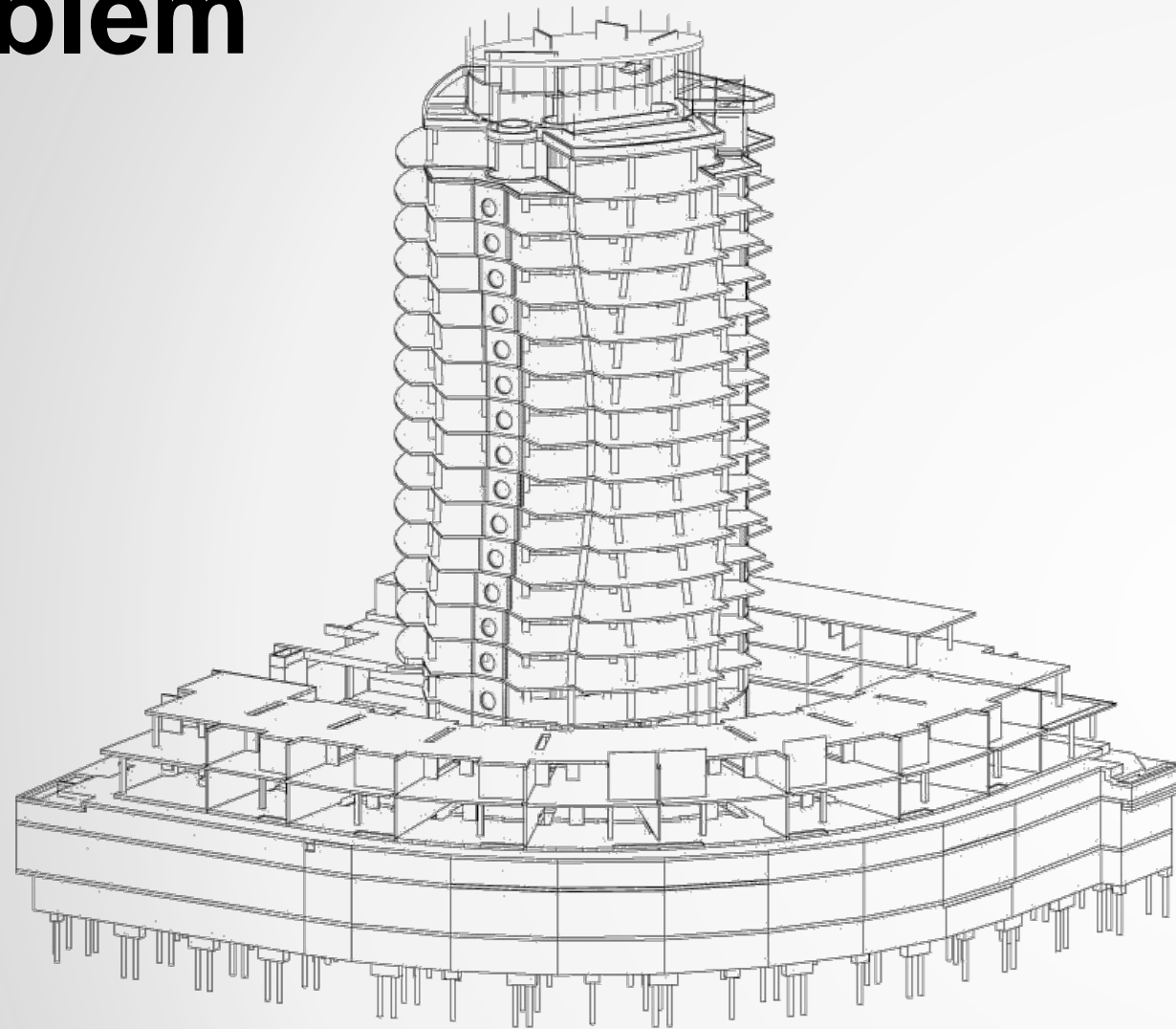


Go Back in Time with Vault



- Team of designers
- Complex data
- Long standing relationships with customers

Go Back in Time with Vault Problem



- A customer wants a design from the past
- That old design references historical files
- Not using Vault to manage relationships and history

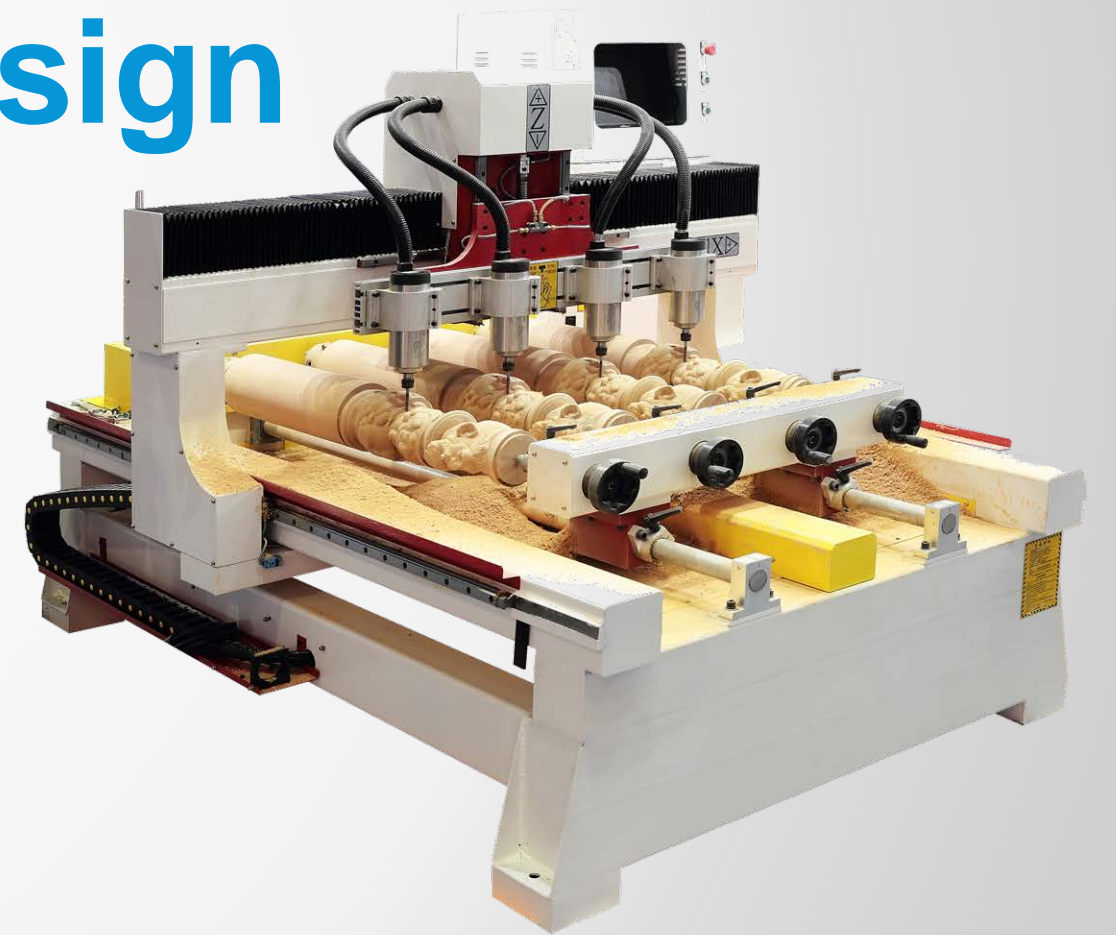
Go Back in Time with Vault

So What?

- Vault manages related files
- Vault is always recording file history
- Vault watches the historical relationships
- No need to track relationships manually. Vault will

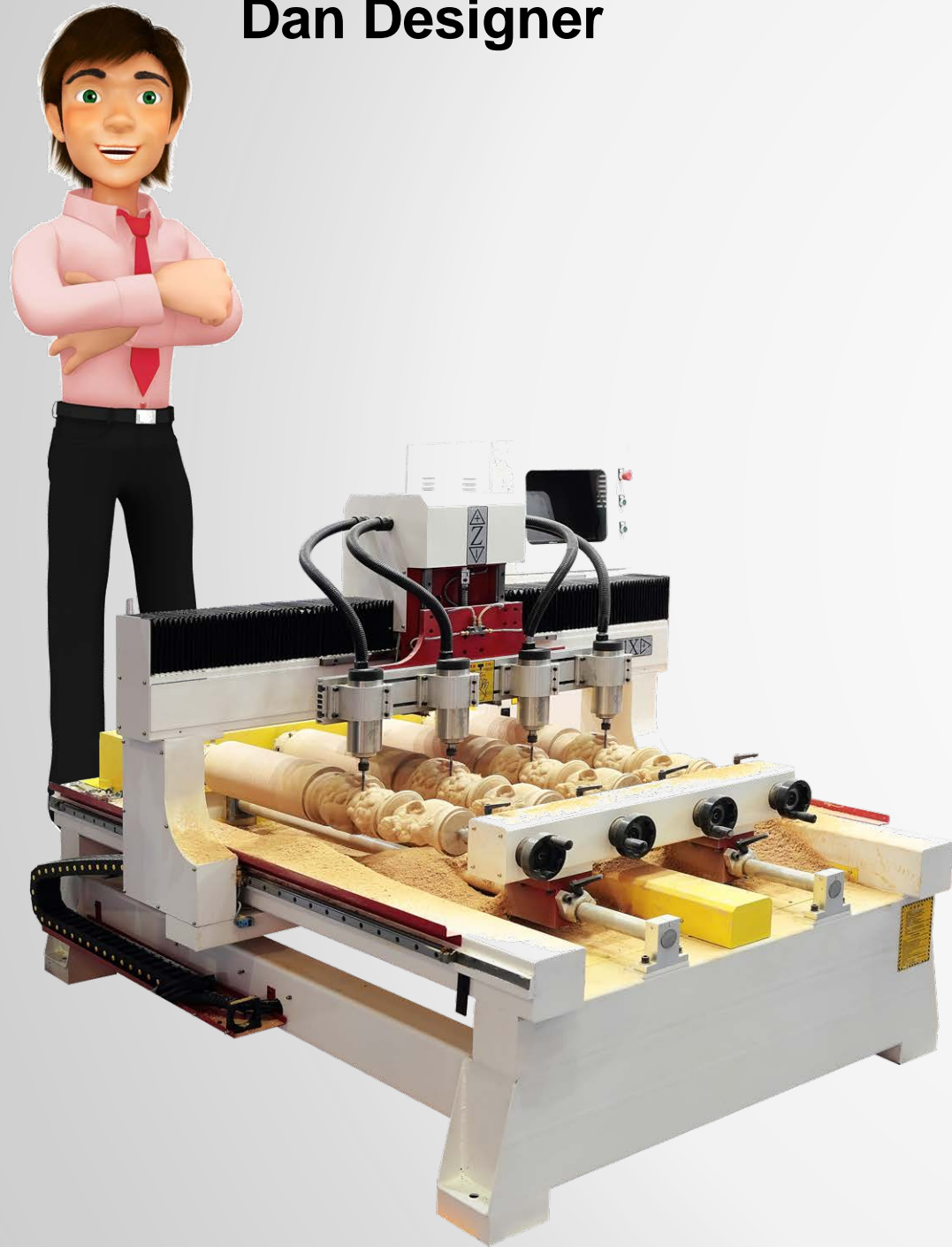
Demo

Save Your Time with Copy Design



Save Your Time with Copy Design

Dan Designer



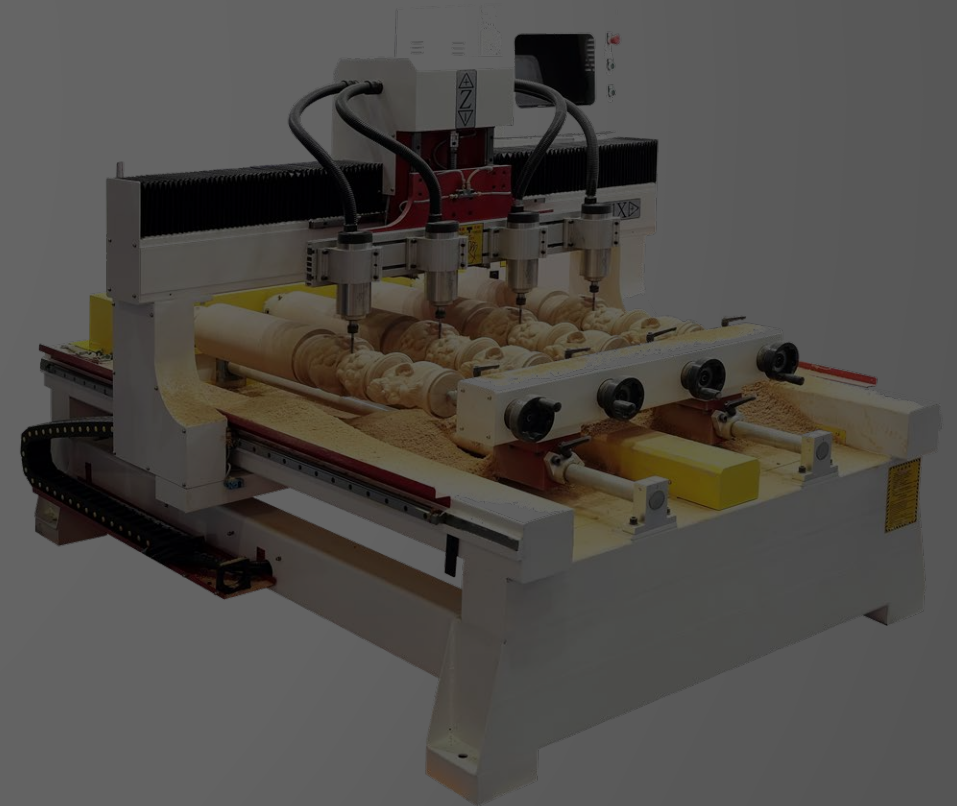
- Designing the newest model of their product
- 75% of the design reuses components from the last model
- Dan is going to take a lot of time!
 - Manual work
 - Not all components are needed
 - Needs to replace some components

Save Your Time with Copy Design

So What?

- Copy Design is the ultimate Save As
- Hit the ground running with the baseline of the same design
- Save time with Copy Design because...
 - Include related (child) components and exclude the ones you don't want
 - Include drawings
 - Replace components
 - Add multiple data sets
 - Copy to any location
 - Modify properties

Demo



Move - Rename - Reconfigure

Using Vault to make design configuration changes



Move - Rename - Reconfigure

- Large building project
- Design is near completion
- Customer changed their mind
 - 4th floor is now the 3rd floor

Problem

- Manually managing CAD file references
 - Complicated
 - Laborious
 - Error prone

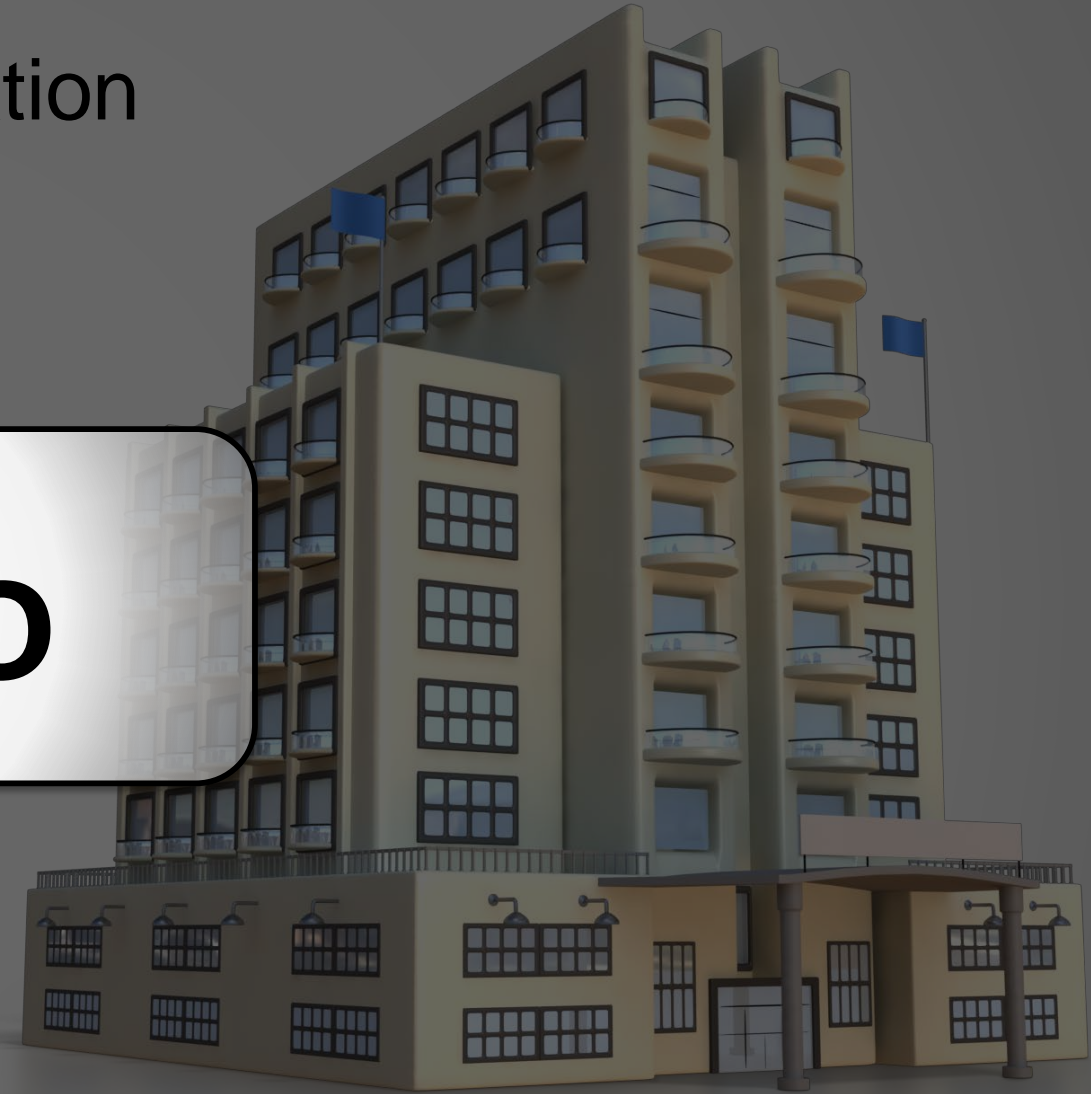


Move - Rename - Reconfigure

So What?

- Use Autodesk Vault, not the design application
 - Move and rename files
 - Move and rename folders
- Vault repairs all references
- Reduced labor = reduced cost

Demo



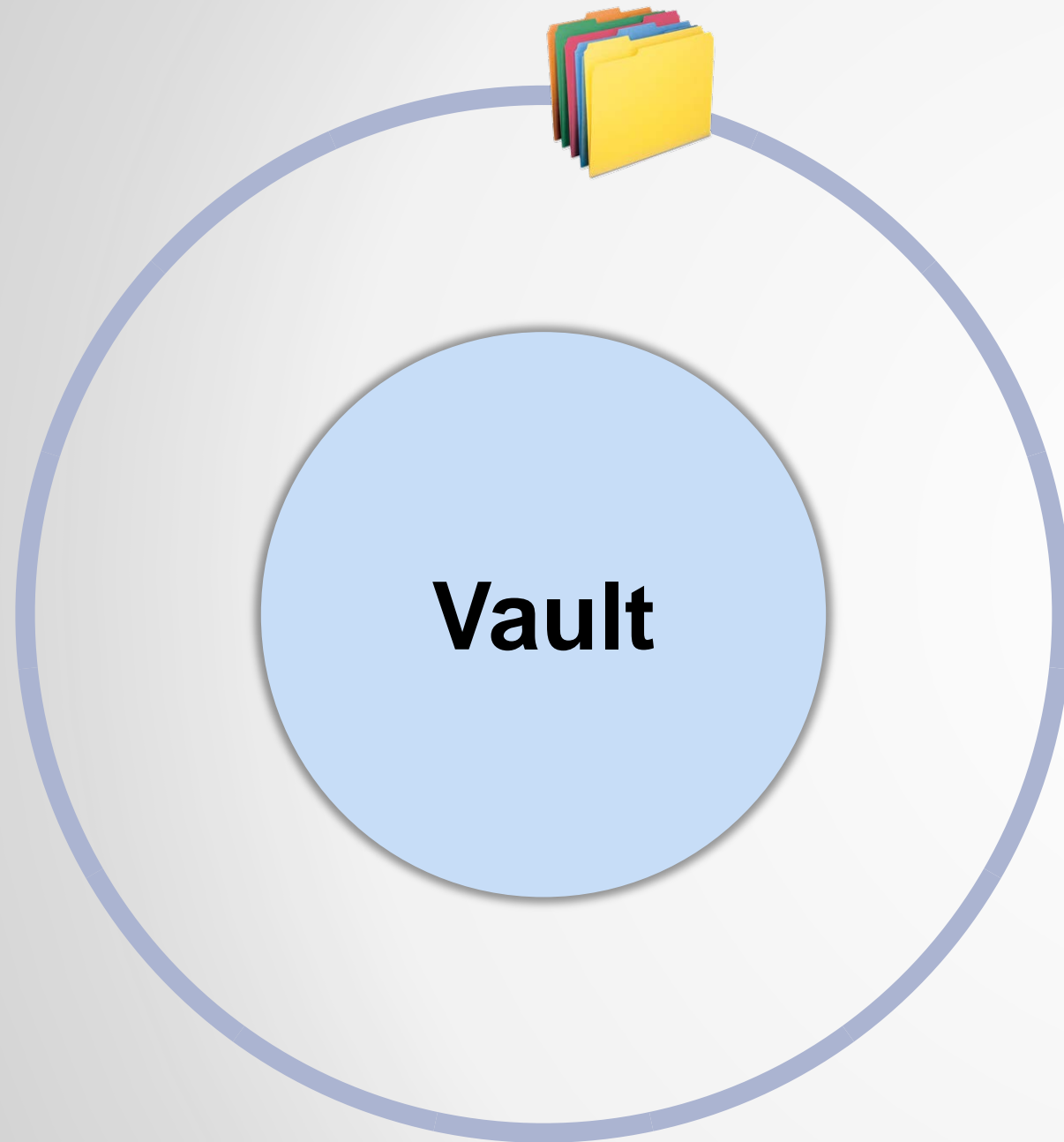
The Autodesk Vault Suite

	 Vault Basic (Server) and Vault Basic (Client) 2015	 Vault Workgroup 2015	 Vault Professional 2015
DEAL FOR	Manufacturing, AEC	Manufacturing, AEC	Manufacturing, AEC
DATA MANAGEMENT FUNDAMENTALS			
Seamless CAD integration	✓	✓	✓
Fast data searching	✓	✓	✓
Central location for project data	✓	✓	✓
Data reuse	✓	✓	✓
Concurrent design	✓	✓	✓
Automated data organization	✓	✓	✓
Easy administration and configuration	✓	✓	✓
Quick and flexible deployment	✓	✓	✓
Microsoft Office Integration (Word, Excel, PowerPoint)			
ADVANCED DATA MANAGEMENT			
Visual data management for Inventor		✓	✓
Automate tasks and deliverable creation		✓	✓
Projects and reporting		✓	✓
Revision control		✓	✓
Flexible data security		✓	✓
Manage Outlook communication		✓	✓
Vault access for non-designers		✓	✓
Customizability		✓	✓
Project lifecycles		✓	✓
Vault Office*			✓
Connect to the cloud with Autodesk PLM 360**			✓
Revit integration			✓
Connect to the cloud with Buzzsaw			✓
Microsoft SharePoint integration			✓
SOM management			✓
Automated engineering change orders			✓
Custom objects			✓
Multisite scalability			✓
Active directory authentication			✓
3rd-party CAD software integrations support			✓
Business system integration			✓
High speed			✓

Autodesk Vault Suite

- Autodesk Vault Basic
- Autodesk Vault Workgroup
- Autodesk Vault Professional

Autodesk Vault Suite

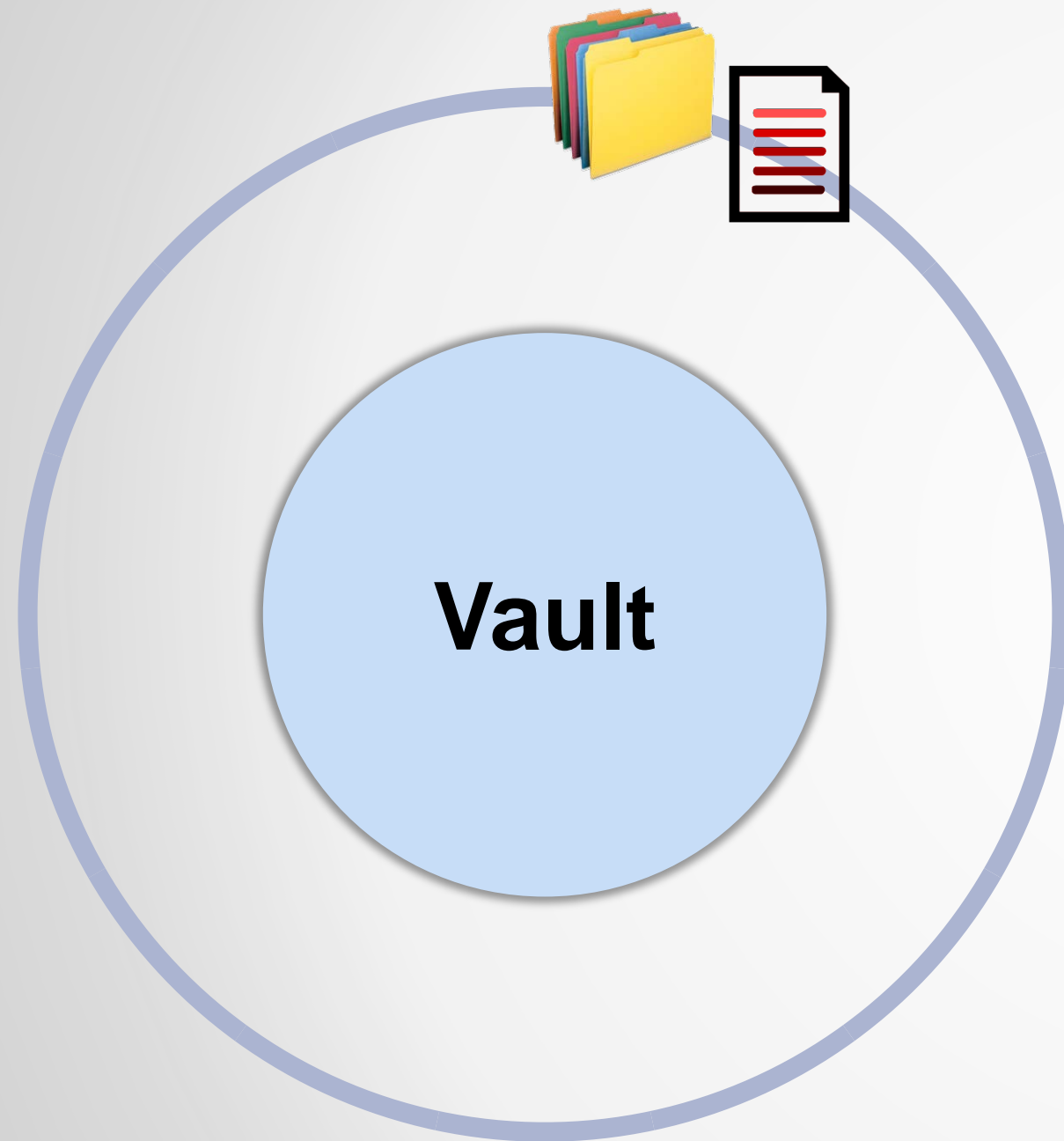


File store:

- The file store and the database server work with each other.
- The database provides the index information for the location of the files. The file store is the secure location on the server where the files are located.



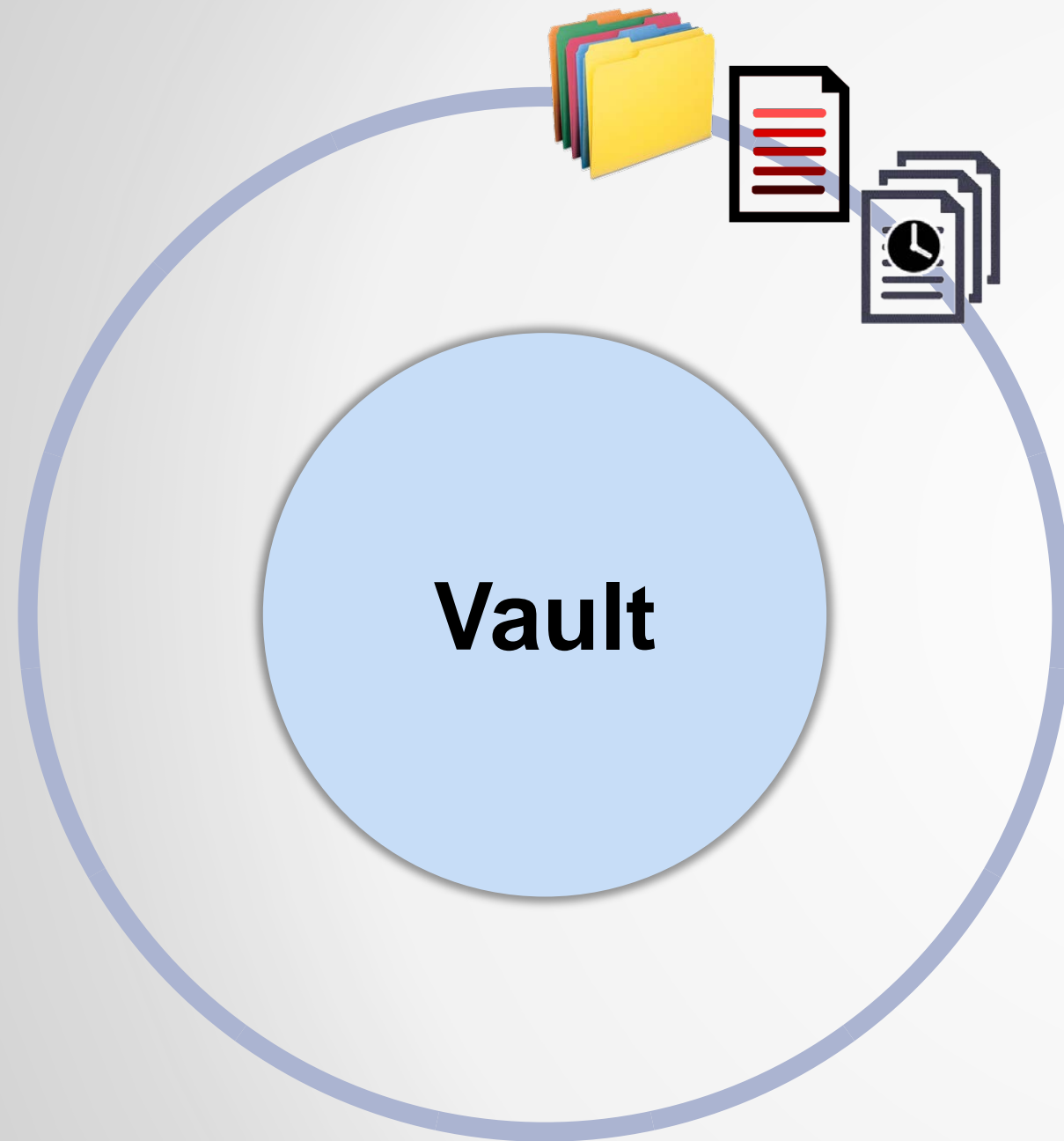
Autodesk Vault Suite



Properties: Properties are attributes associated with a file. Property management means to pull properties from your files, allow you to search on them, and even edit them.



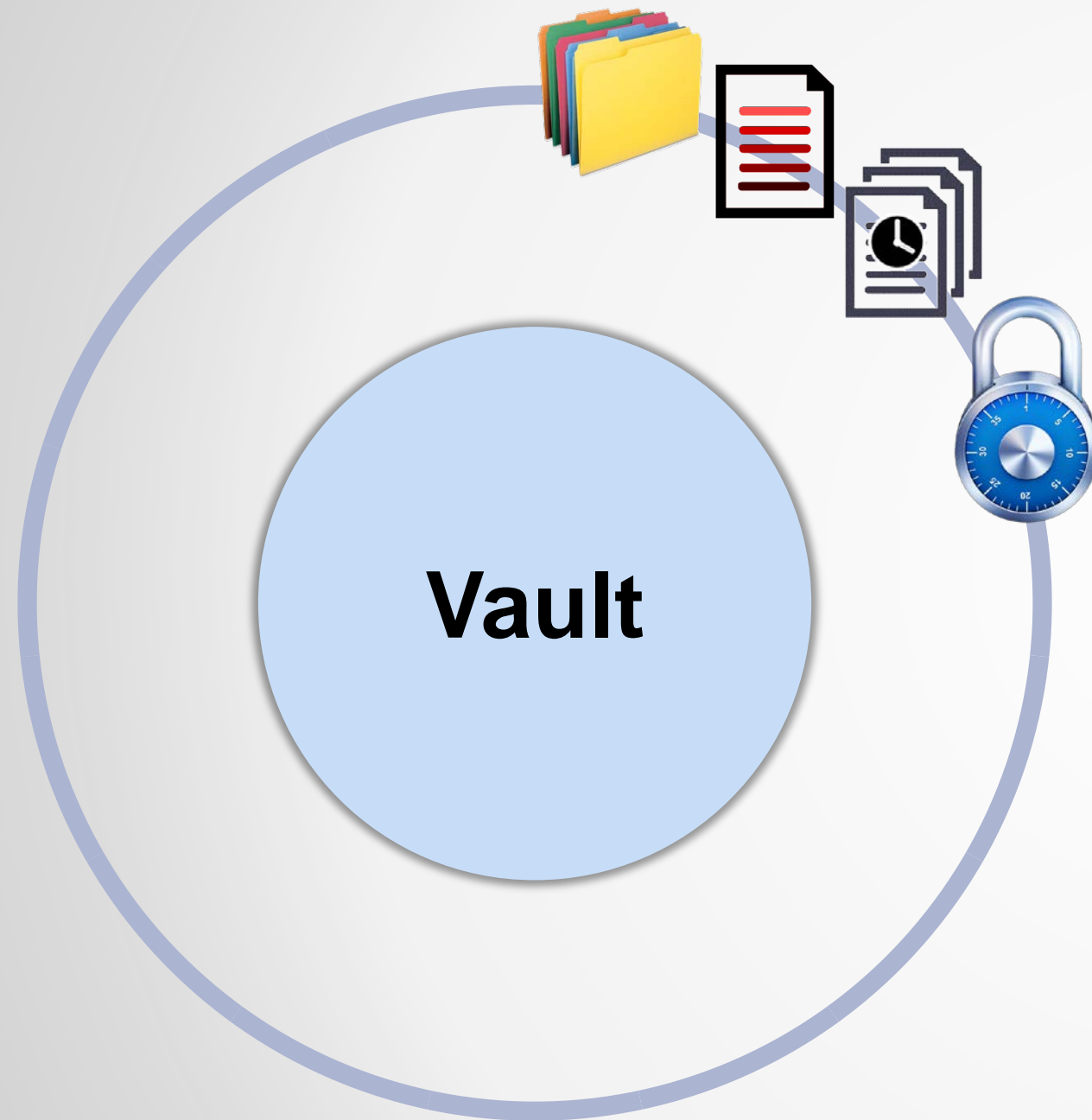
Autodesk Vault Suite



Versions: Versioning of files means to store historical “snap-shots” allowing you to revert to them if needed.



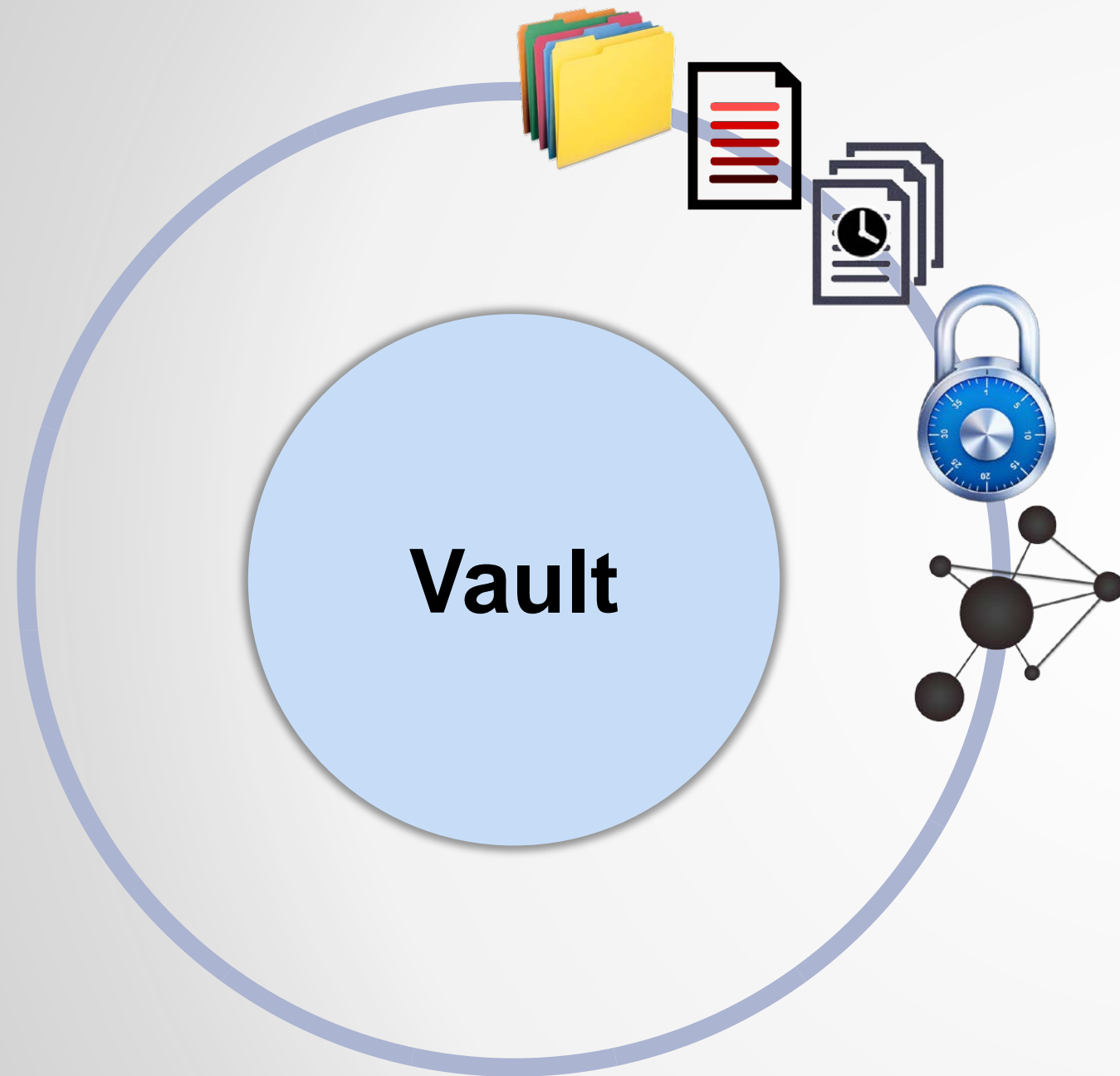
Autodesk Vault Suite



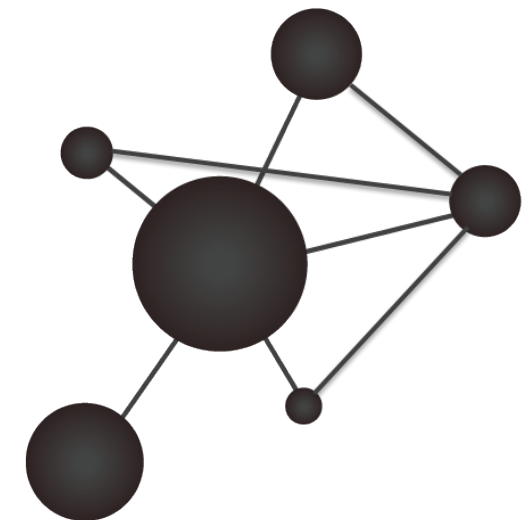
Security: Security can be configured by roles in Vault basic. In the pay-for Vault products, security can be overridden at folder level and by lifecycle states.



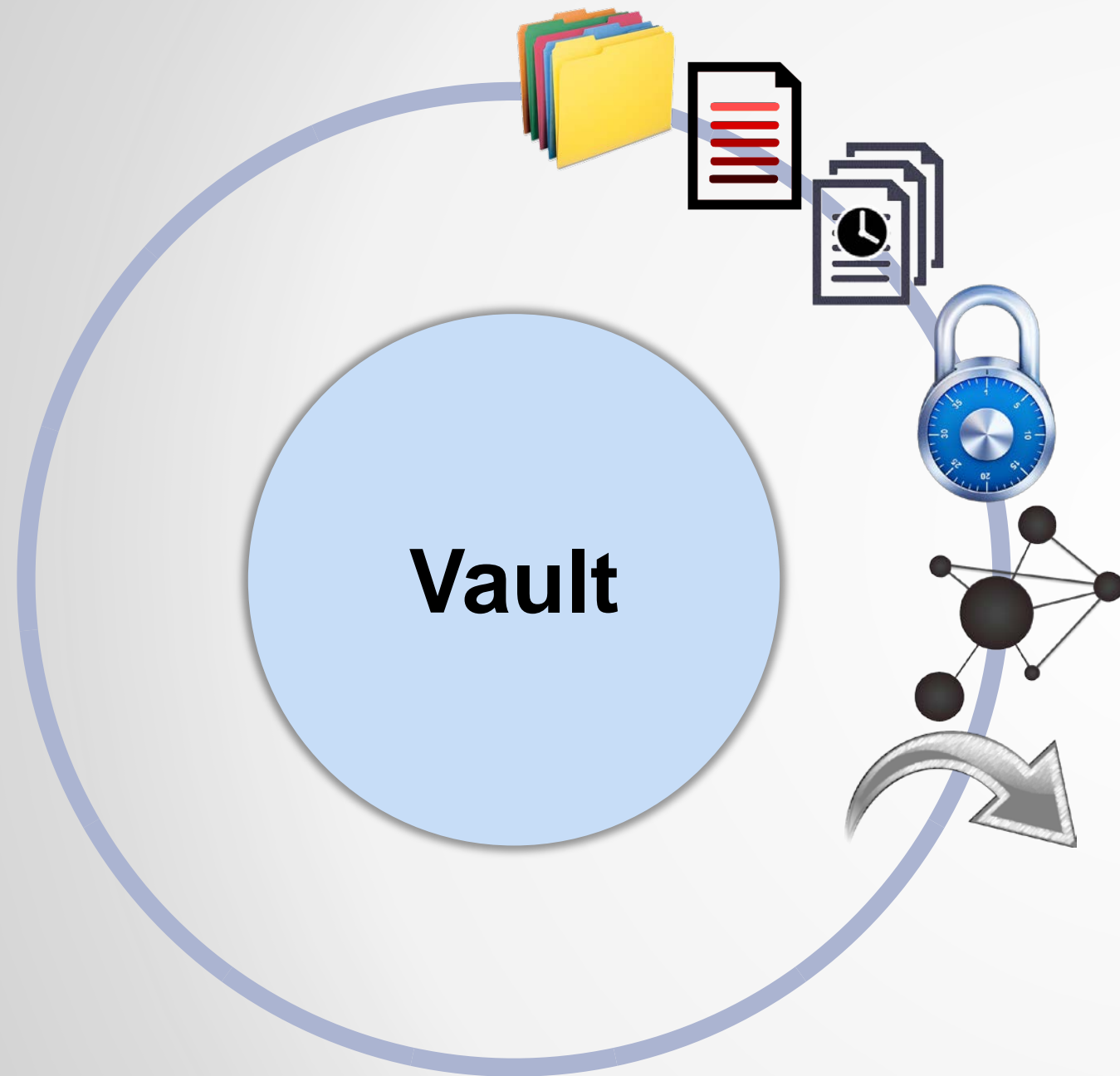
Autodesk Vault Suite



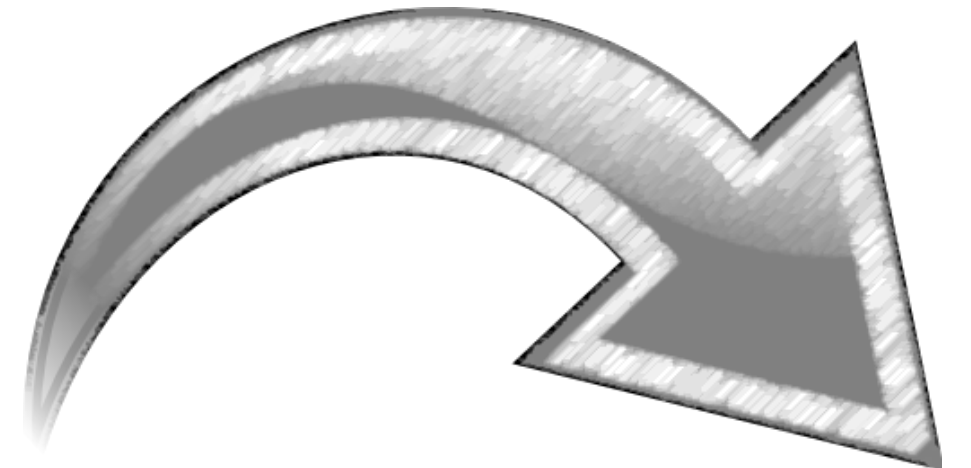
File Dependencies: File relationships are stored and managed in the Vault.



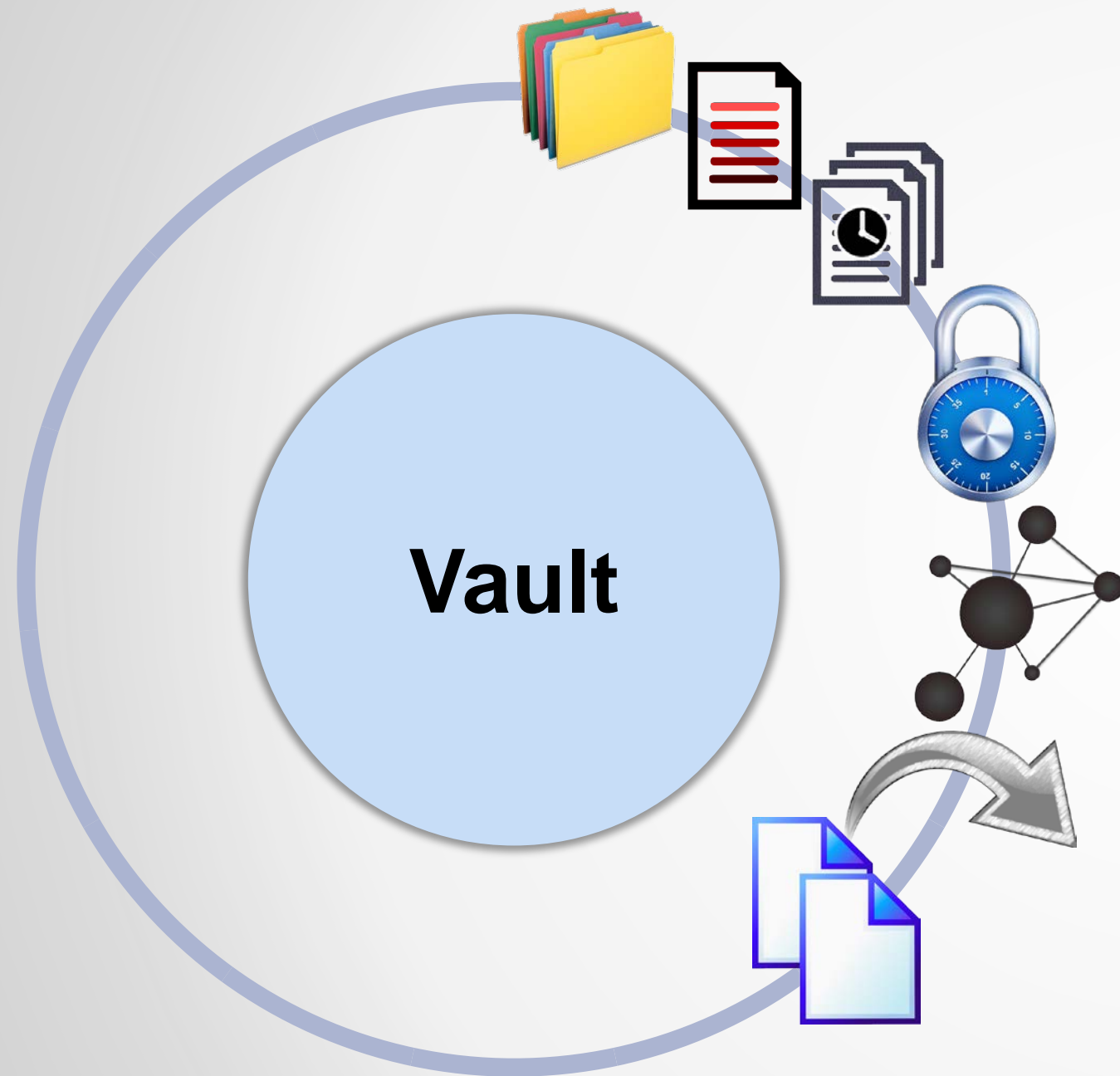
Autodesk Vault Suite



Move and Rename:
Moving and renaming of files might seem like a simple task. But **Vault is doing even more.** The Vault is repairing the relationships of the files.

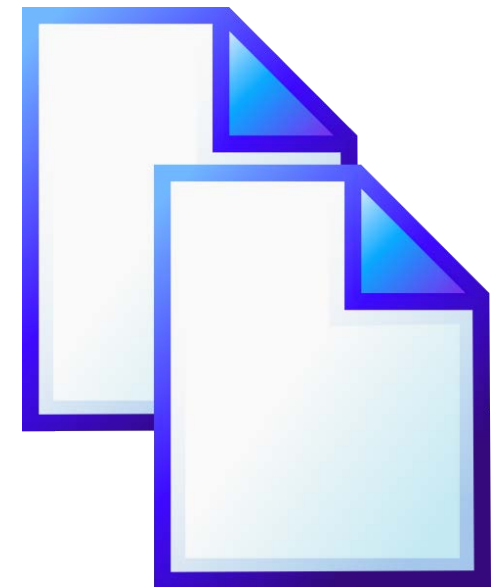


Autodesk Vault Suite

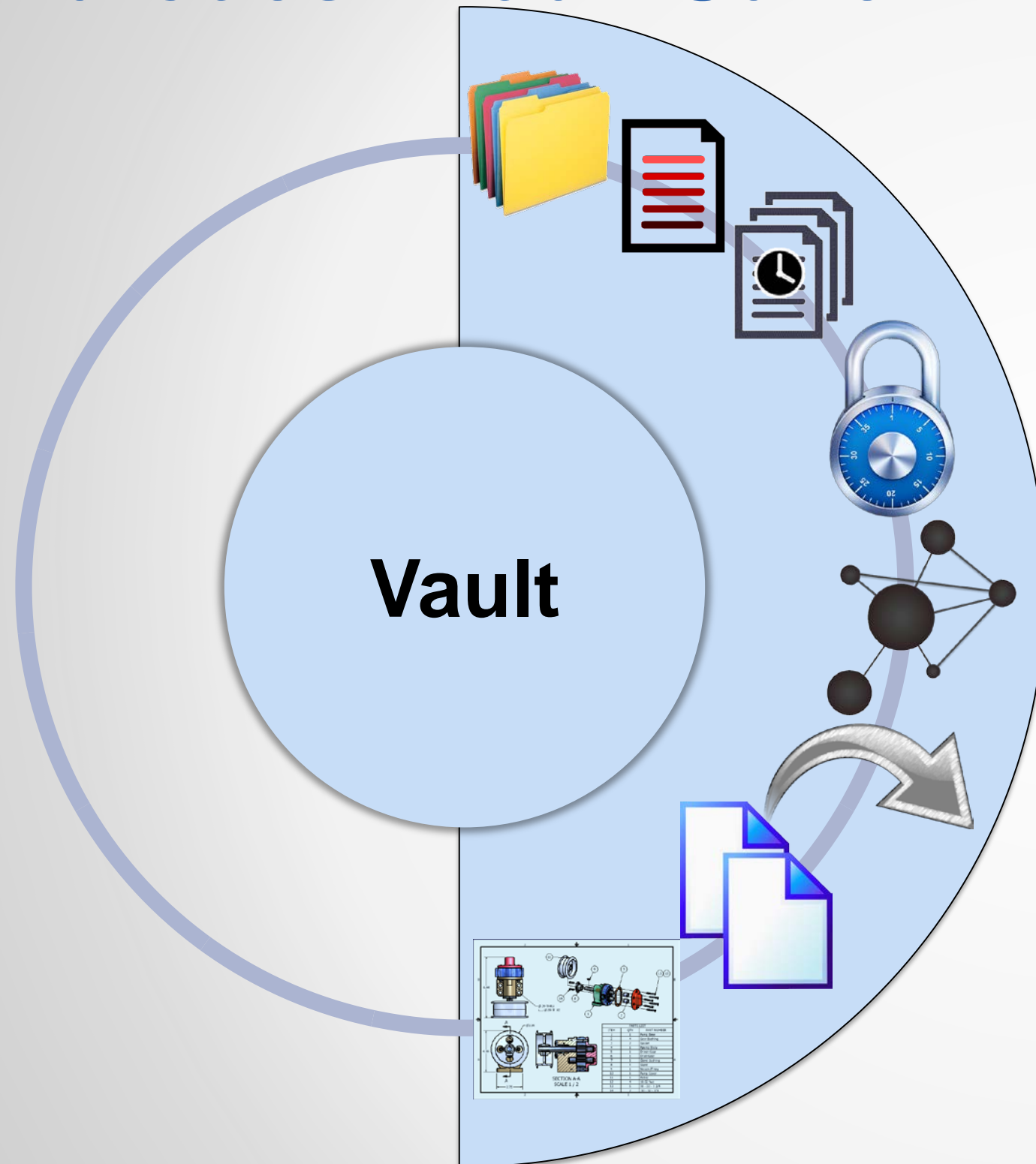


Copy Design:

- Create new design objects by copying existing data within a vault.
- Copy an entire design structure along with the related 2D drawings for 3D models.

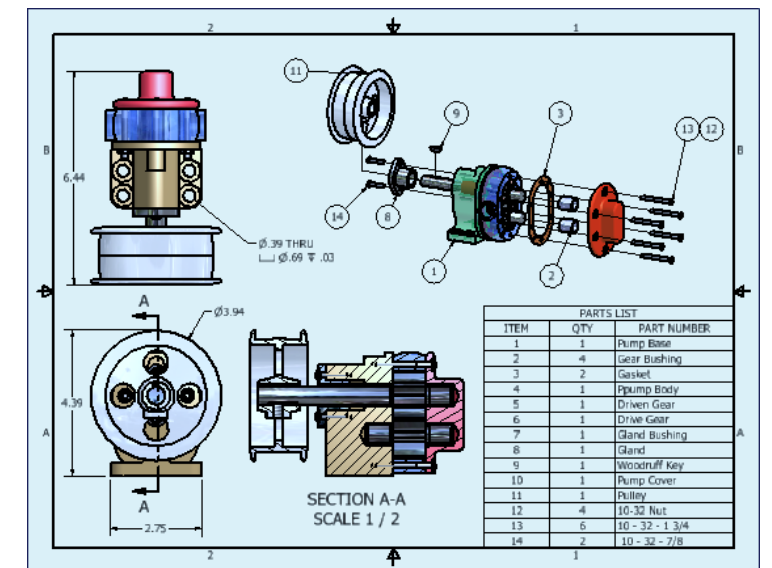


Autodesk Vault Suite

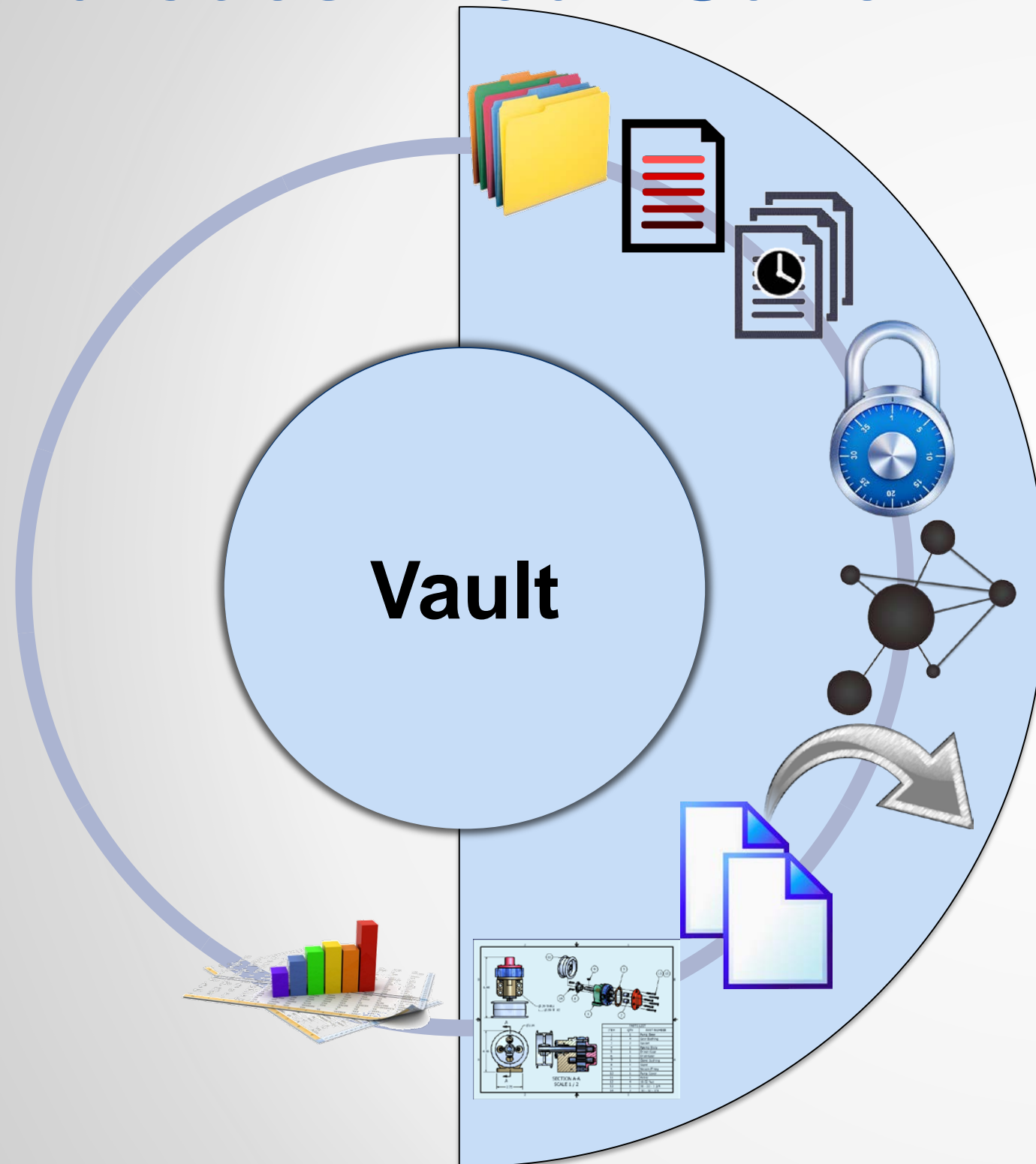


Visualization:

- Visualization files are created and attached to data files automatically.
- Created on file change
- Automatic publishing can be turned off to save room and keep the size of the vault down.



Autodesk Vault Suite

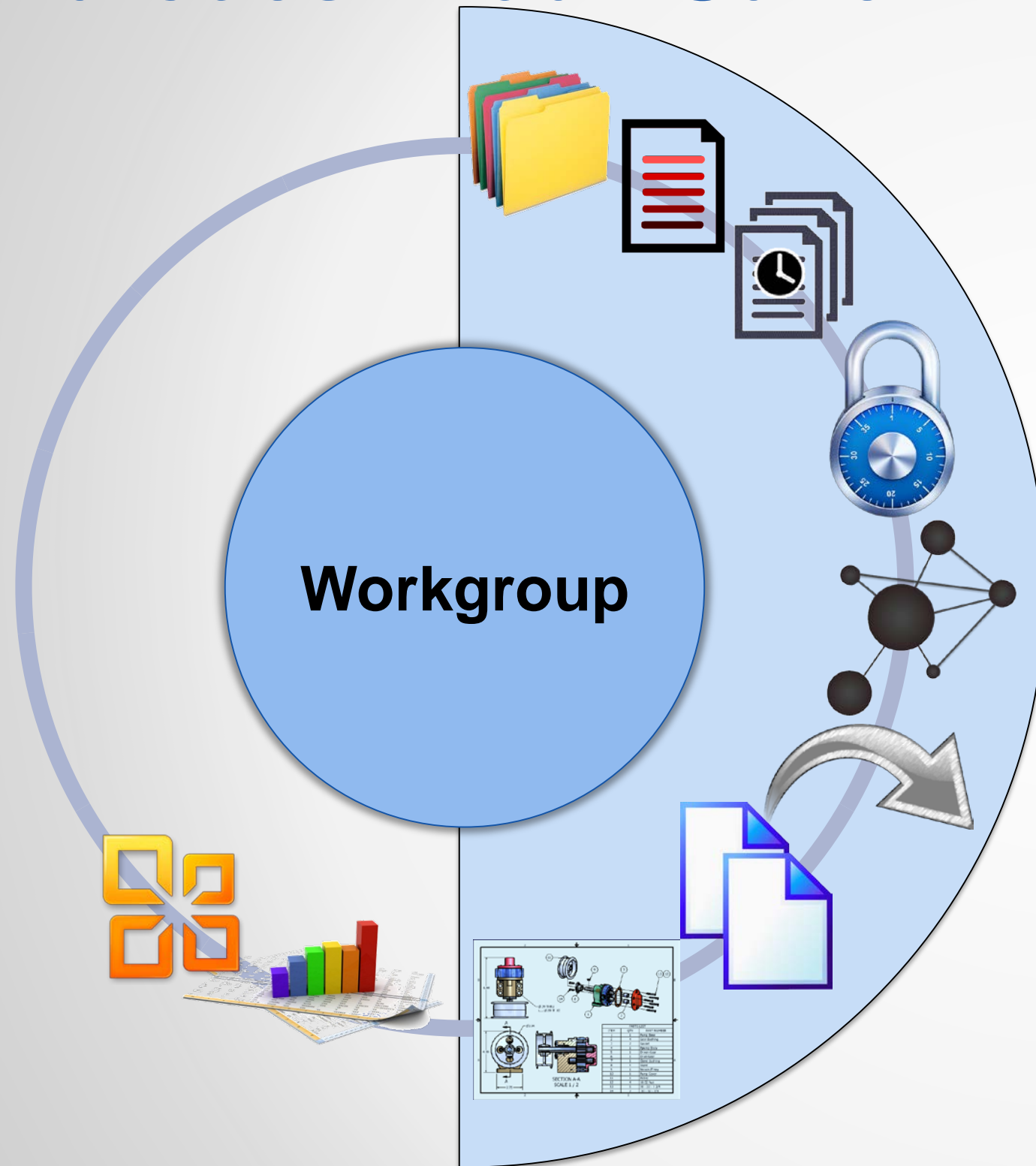


Reporting:

- Create Vault project reports to help you manage your vault data.
- Folder reports contain information on files, sub-projects, items, and change orders within the project.



Autodesk Vault Suite

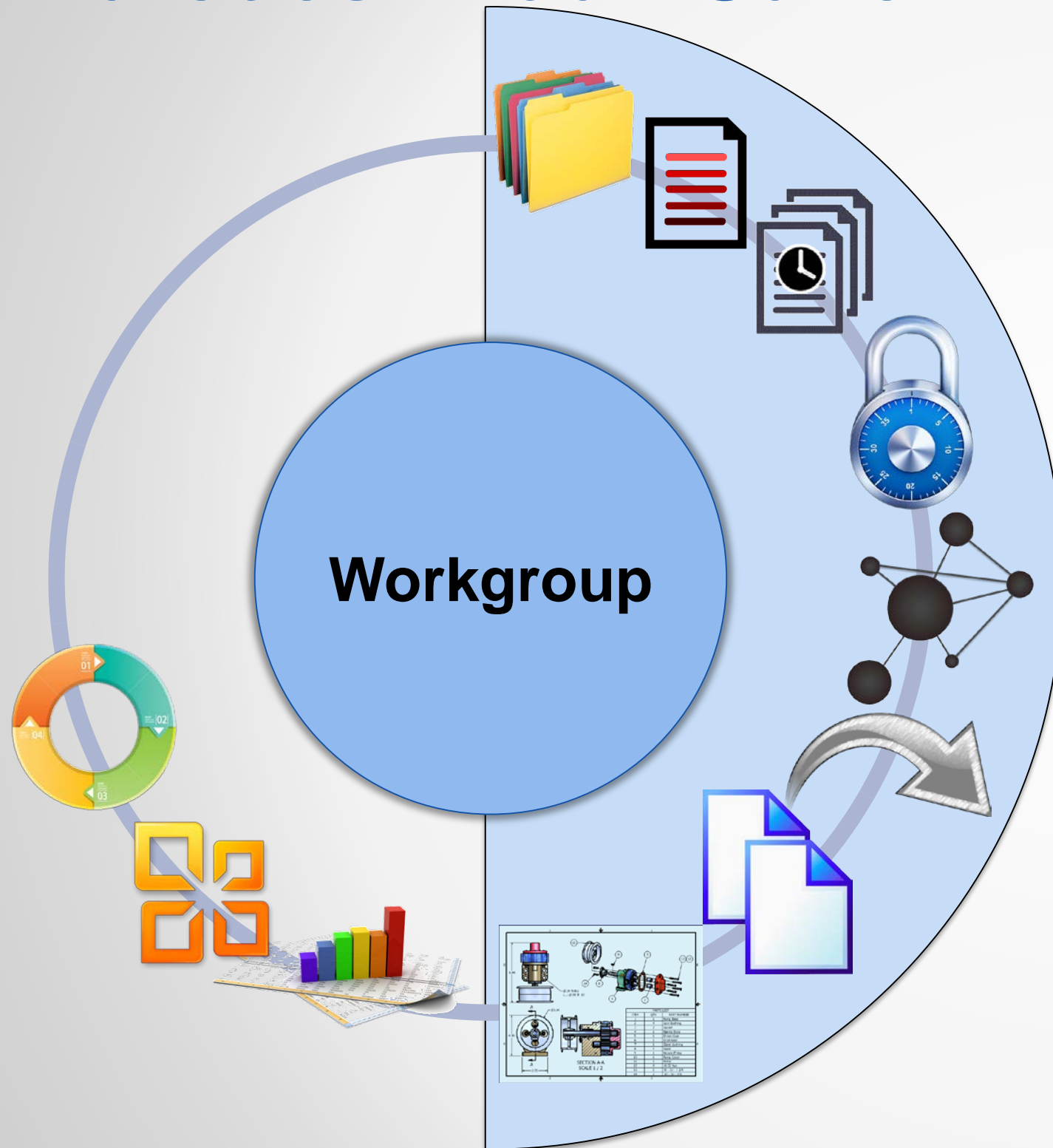


Non-CAD Access:

- Vault basic users can only install Vault if there is a qualified product on the machine.
- With Vault Workgroup, Vault can be installed without this restriction.



Autodesk Vault Suite

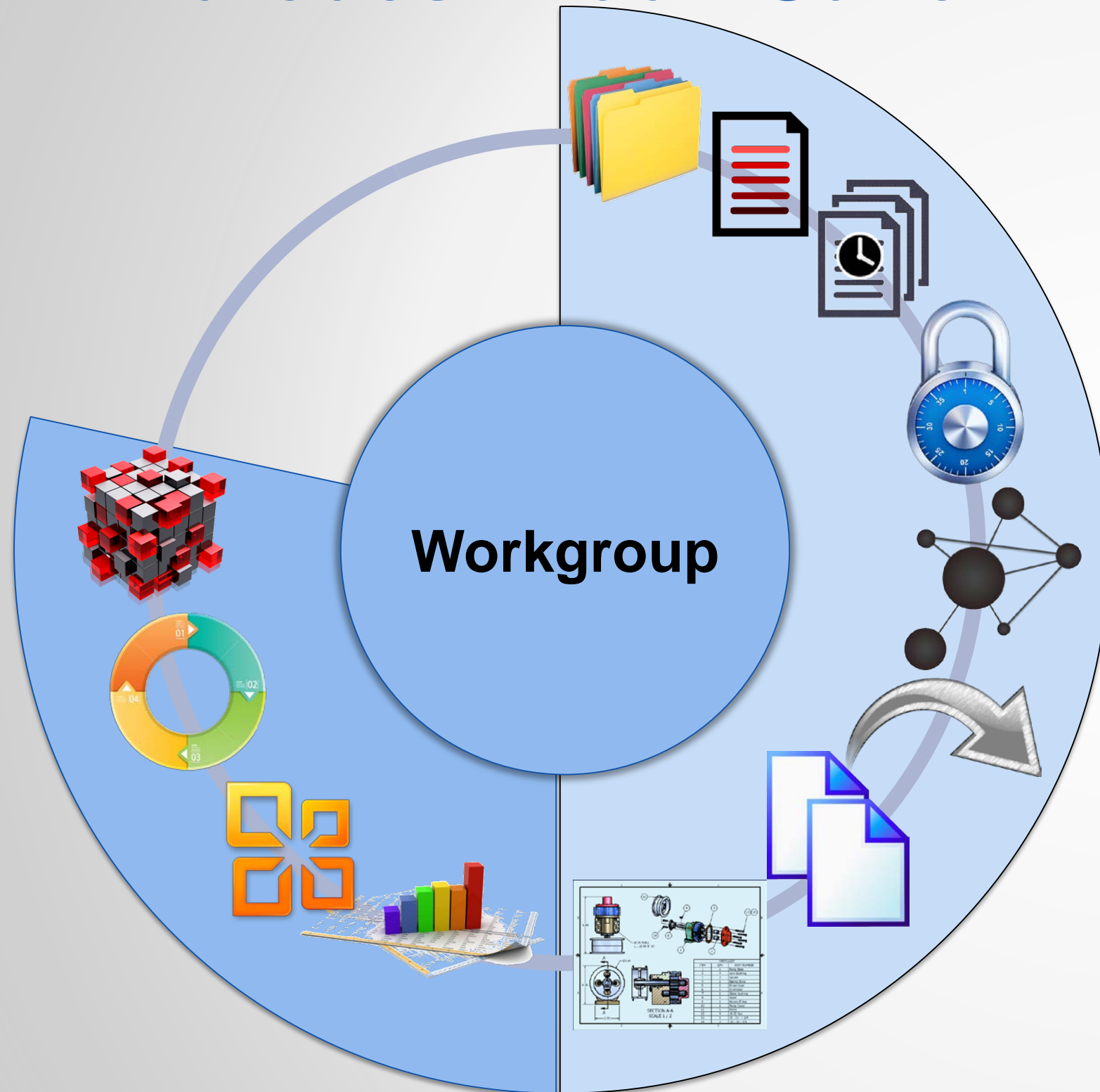


Release Management:

- Lifecycles and States to automatically drive behaviors and differentiate file statuses in the design process (Work in Progress, For Review, or Released).
- An object moves from one state to another based on the lifecycle definition's transition rules.

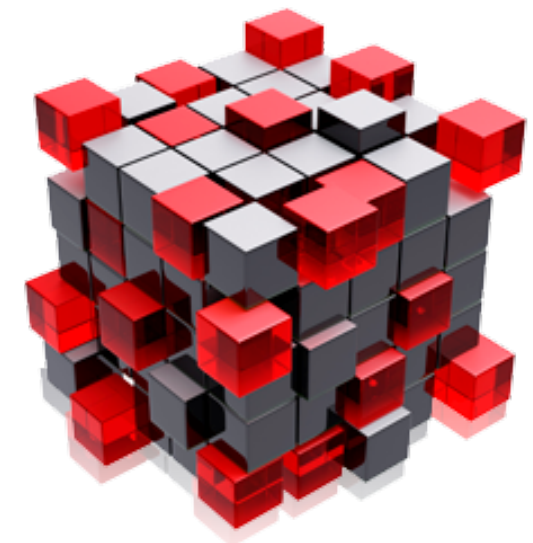


Autodesk Vault Suite

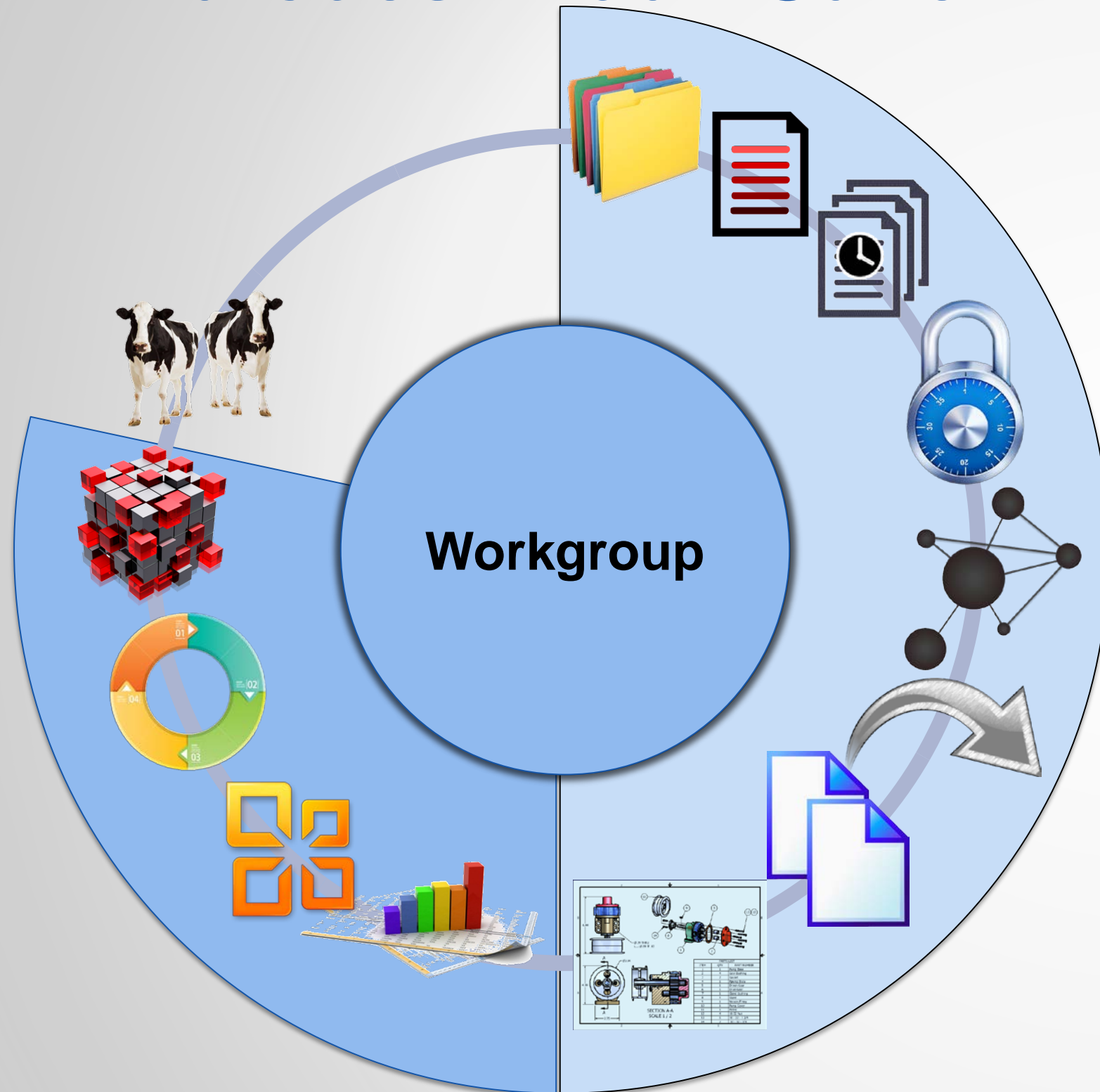


Integration:

- Integrates with PLM 360
- API to integrate with other business systems



Autodesk Vault Suite



Replication:

- Replication is the process of copying data from one server to another server usually located in two different physical locations.
- Users will not have to spend time downloading large CAD files across their Wide Area Network (WAN) connection.



Autodesk Vault Suite



Bill of Material & Change Order:

- Vault professional extracts BOM data from design files and allows you to manage the BOM from within the Vault product.
- Manage change through the Vault change management system.



Autodesk Vault Suite



Web Access:

- The Autodesk Vault Web Client allows you to perform read-access tasks in a vault, such as searching the vault and viewing file history.
- If you have a Vault Office license, you can also perform file management tasks.



Choose Your Own AU Adventure

A Look Into Upcoming Vault Classes



Choose Your Own AU Adventure

A Look Into Upcoming Classes

- **PL9954 Behind the Music (Stories from Vault Users)**
Mike Thomas Wednesday at 8:00am
- **PL10600 Beyond Engineering to Sales, Purchasing, and Management with Vault Office**
Younes Yammouri Wednesday at 3:00pm
- **PL10733 The Power of Custom Objects**
Robert Stein Thursday 10:00am
- **PL11390 Integration Options for Vault**
Kevin Robinson Thursday at 2:00pm



AU Answer Bar



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- Located just outside of Hall C on level 2.
- Staffed by Autodesk developers, QA, & support engineers ready to help you through your most challenging technical questions.

