

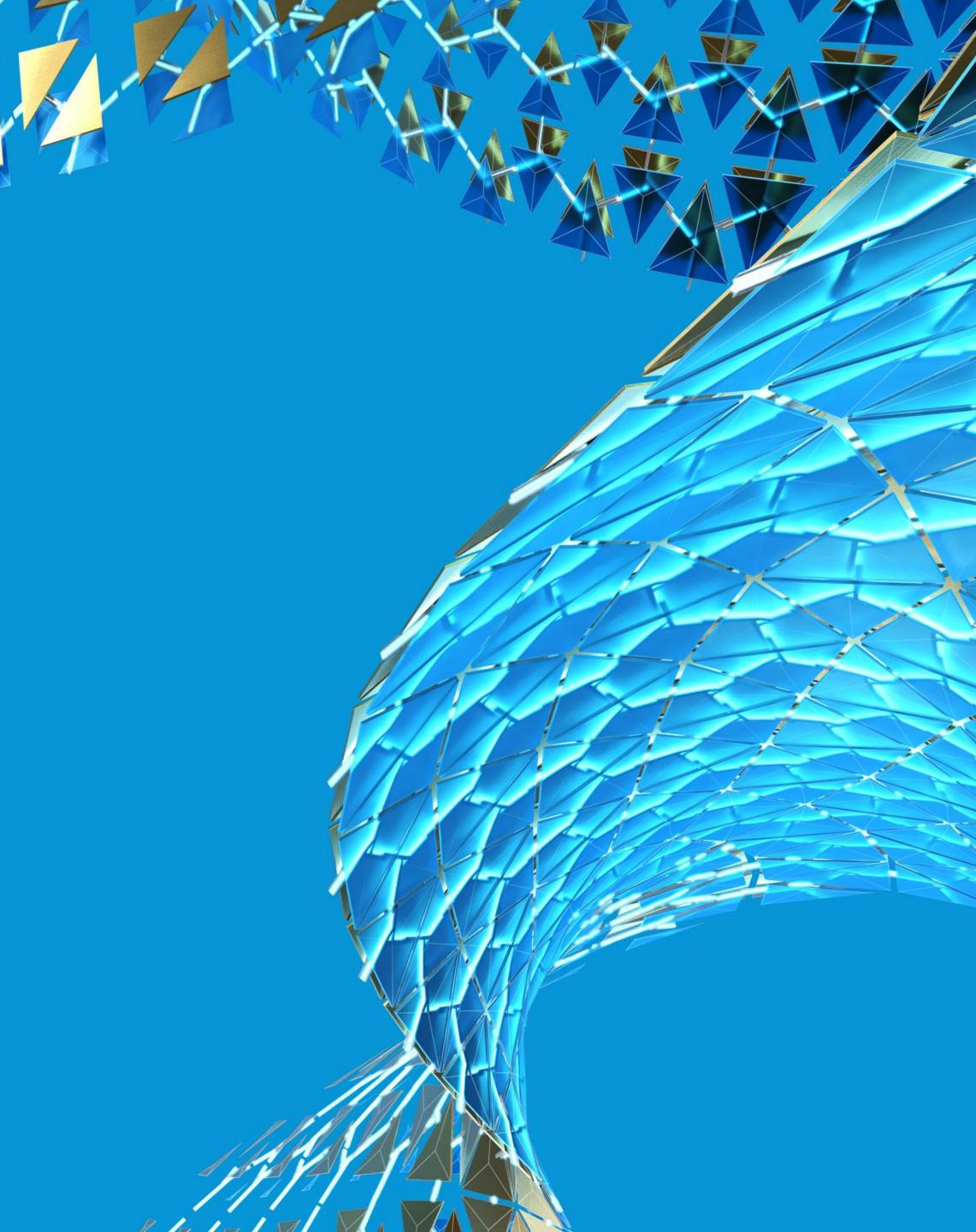
MFG466271 The Golden Ticket: Working with Vault & Fusion Team

Lauren Drotar

Implementation Consultant

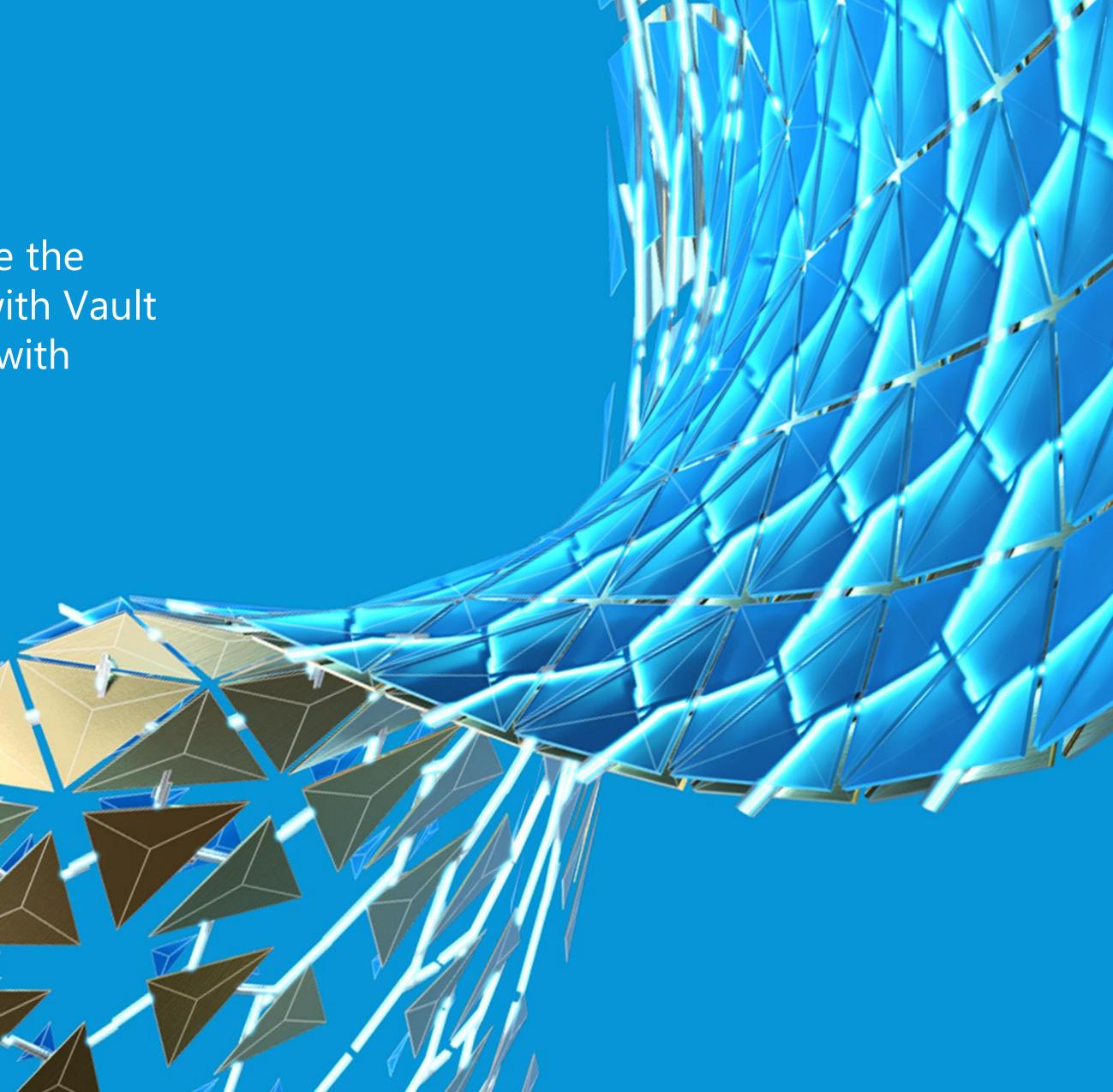
Brian Schanen

PLM/PDM Readiness Program Manager





In this class, we will provide guidelines to maximize the efficiency and productivity of using Fusion Team with Vault software in order to work remotely or collaborate with external users.



Key Learning Objectives



Learn how to access data remotely without requiring a VPN



Learn how to assist your team with the setup of remote access to their files



Discover the relationship and differences between Fusion Team and Vault



Learn how to set up Fusion Team to work with your Vault



About the speakers

Lauren Drotar

Lauren has a background in mechanical engineering from numerous sectors of the industry- including firearms, diesel engines, and fluidics. This year, Lauren transitioned from being an Autodesk customer to a member of the Autodesk partner channel when she joined D3 Technologies' Data Management team. This is her third AU and second team teaching. When she isn't working, Lauren can be found reading, hiking, or spending time with friends.

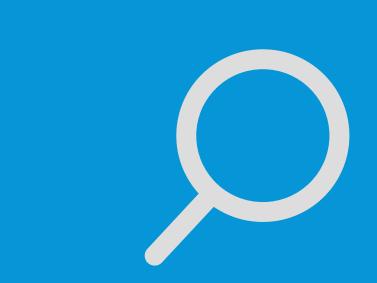
Brian Schanen

Brian Schanen works for Autodesk, Inc., as a PLM/PDM Readiness Program Manager in the Business Strategy & Marketing division. He is responsible for evangelizing global technical and sales on PLM and PDM and the design, creation, implementation, and delivery of PLM/PDM based curriculum, technical and sales tools, and live events. With 18 years of PDM and PLM experience, he is a seasoned presenter. On any given day, you can find him coaching internal teams, prospects, mentoring new customers, and even assisting in deployments of Autodesk PLM/PDM software.

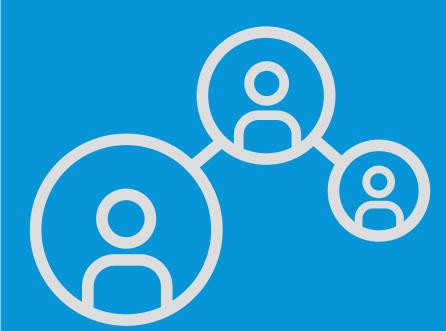




Easily view and share designs in your browser



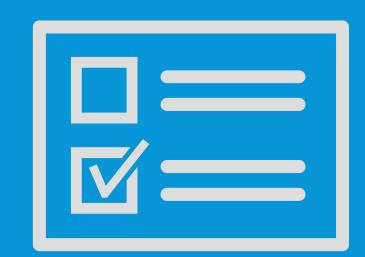
Find
Find all of your
CAD data in one place



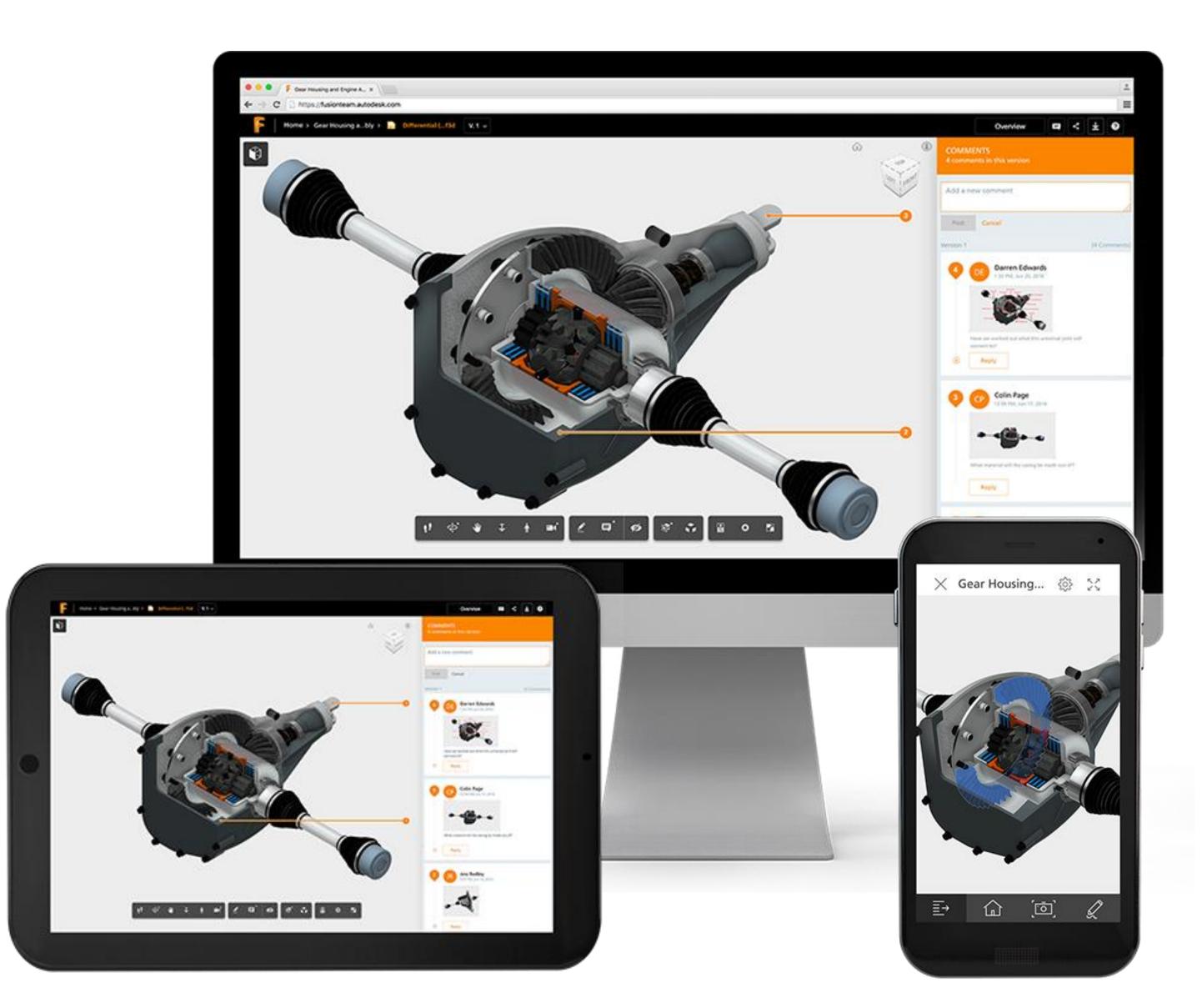
Share
Publish design data
and documents



View 2D and 3D Model with zero install viewer



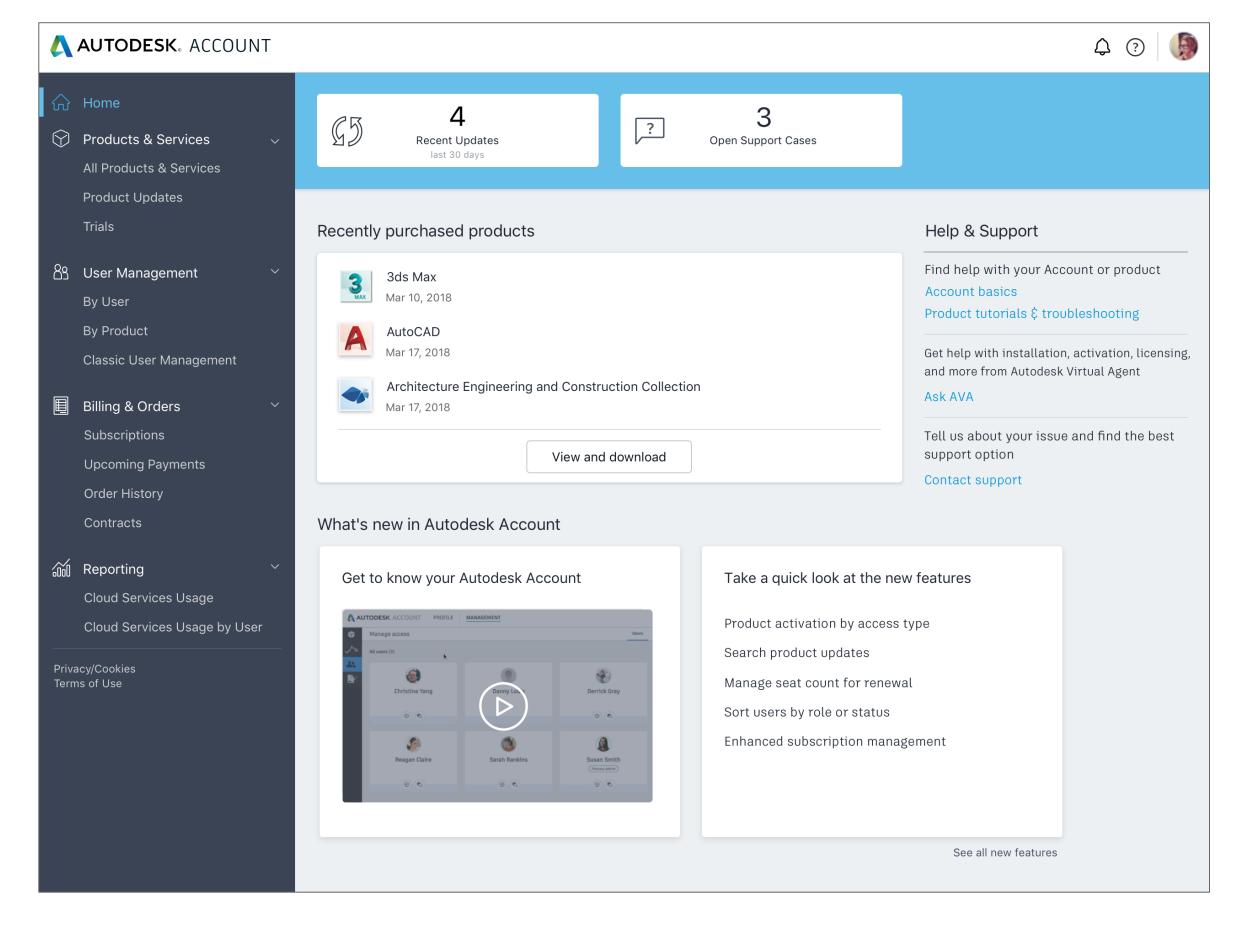
Discuss
Track conversation
Within project folders



Autodesk Account – manage.autodesk.com

Autodesk Account is your home for everything Autodesk, where you can manage your profile, products, users, and payments





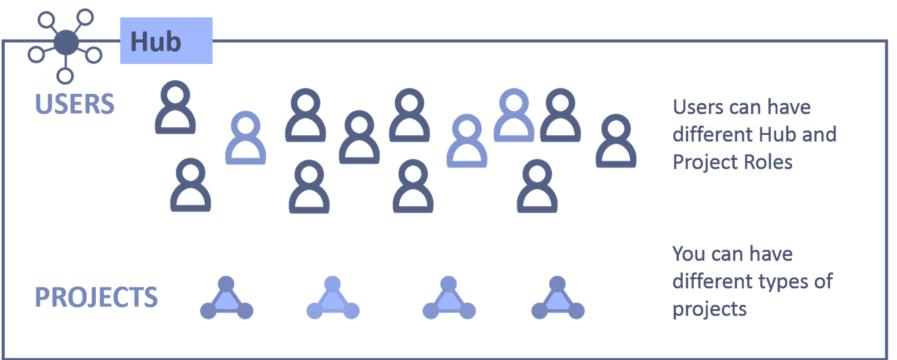
Fusion Team Terminology – Hubs & Projects

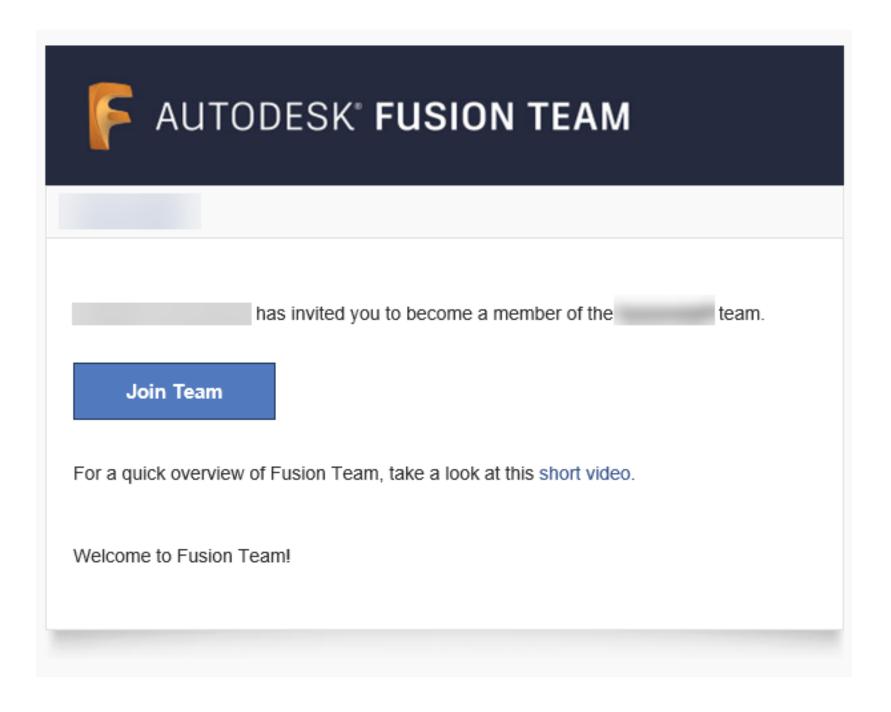
Hub

- A 'site' and central workplace for your projects
- Recommended for organizations
- Contract owner, manager, admin usually creates

Projects

- Working areas within the Hub
- Three types
- Permissions per Project
- Display as top-level folders in the Hub and in Windows Explorer via Desktop Connector





Project Types

Open

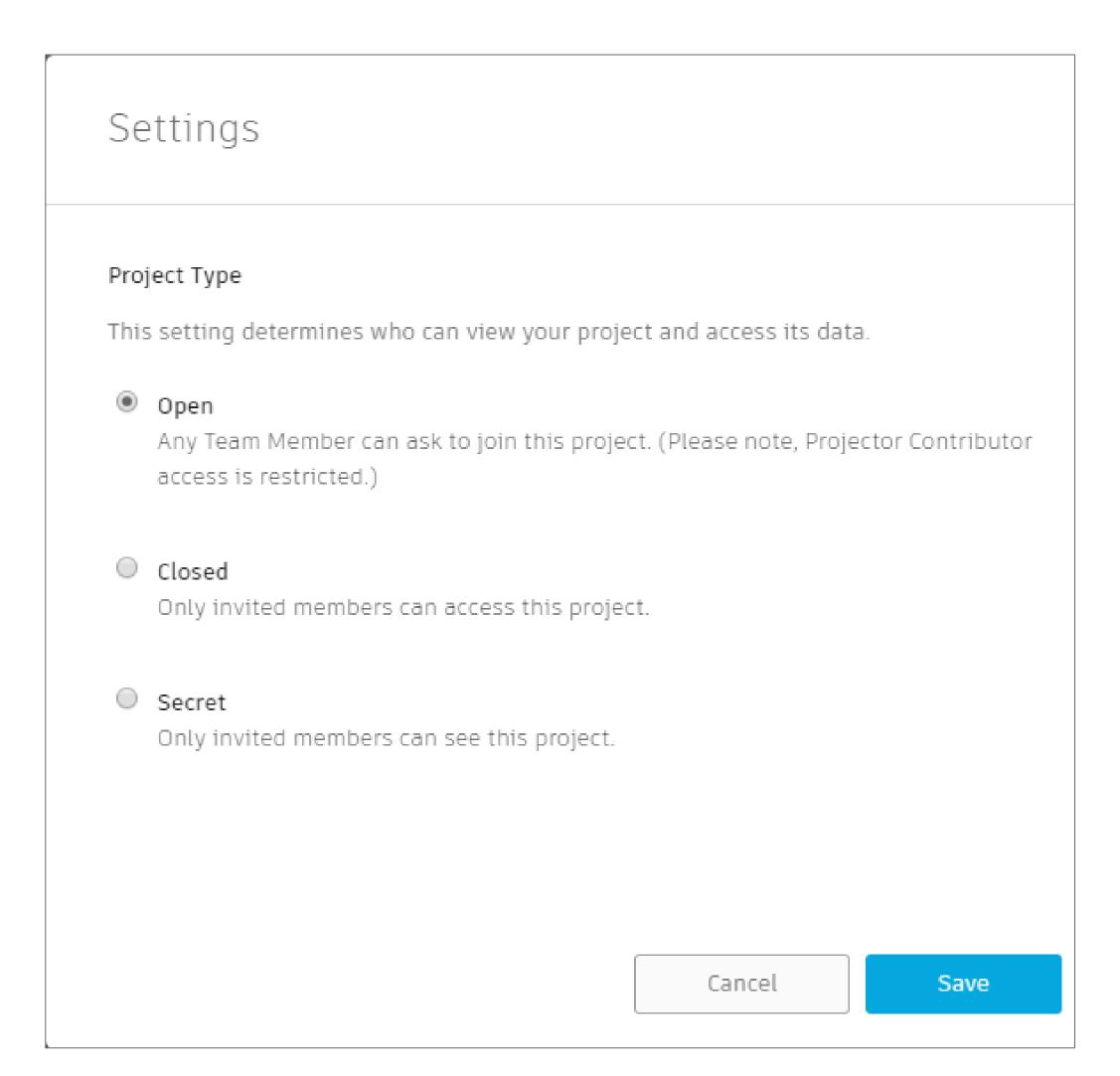
- Intended for all internal Team Members
- Members can join/leave at any time
- Data is searched and access enabled to all Members

Closed

- Intended for better control over data
- Membership contingent upon Moderator approval

Secret

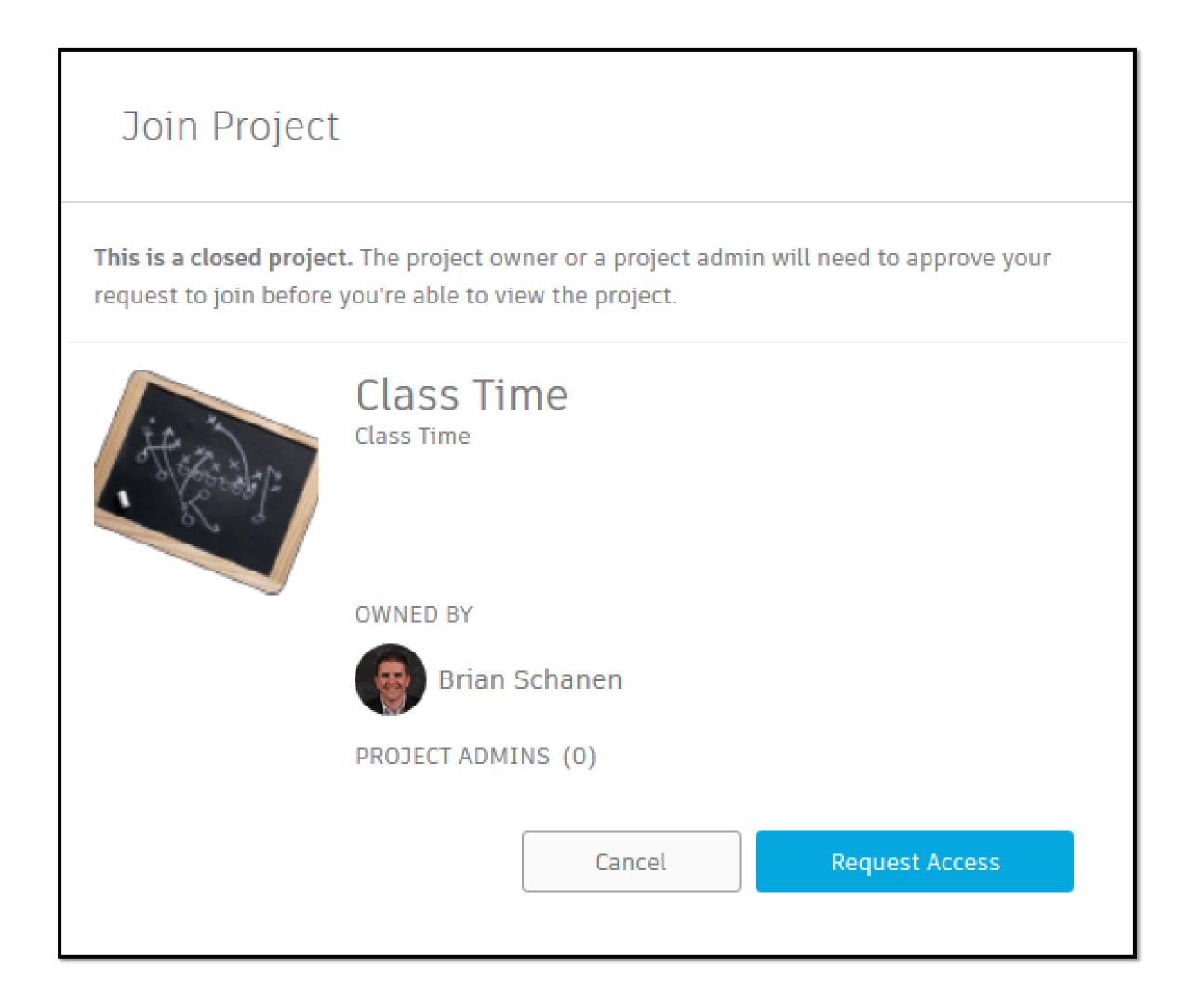
- Intended for sensitive or personal data
- Hub Owner can see it exists, but no content



Accessing Projects

Joining a Project

- Open Project
 - If Team Member, you can join
 - If Team Member, you can invite other Team Member (pending Team Admin approval)
- Closed Project
 - If Team Member, you can see Project and request access
- Secret Project
 - Cannot see other Secret Projects
 - Must be invited to these by Project Owner



Security Model

Hub Roles

	Team Administrators	Team Members	Project Contributor
Project Creation	✓	✓	
Browse and Join Projects	√	√	
Invite Team Members * Requires Team Admin Approval		*_	*_
Invite Project Contributor	√	√	
Can Upload Files	√	✓	
Can See other Members	√	√	
Can Approve Invitations from other contributors			
Can approve and share public links	√	√	
Right to assign hub-level roles to users			
Can purchase seats	✓		

Role Types - Hub

Team Owner

- Purchased/entitled to the Hub
- Can buy more subscriptions
- Can invite more Team Members, and Project Contributors
- Also a Team Administrator

Team Administrator

- Change Hub name
- Change invite approval
- Invite/deactivate members
- Promote others to Admin
- Create/deactivate Projects
- Also a Team member

Team Member

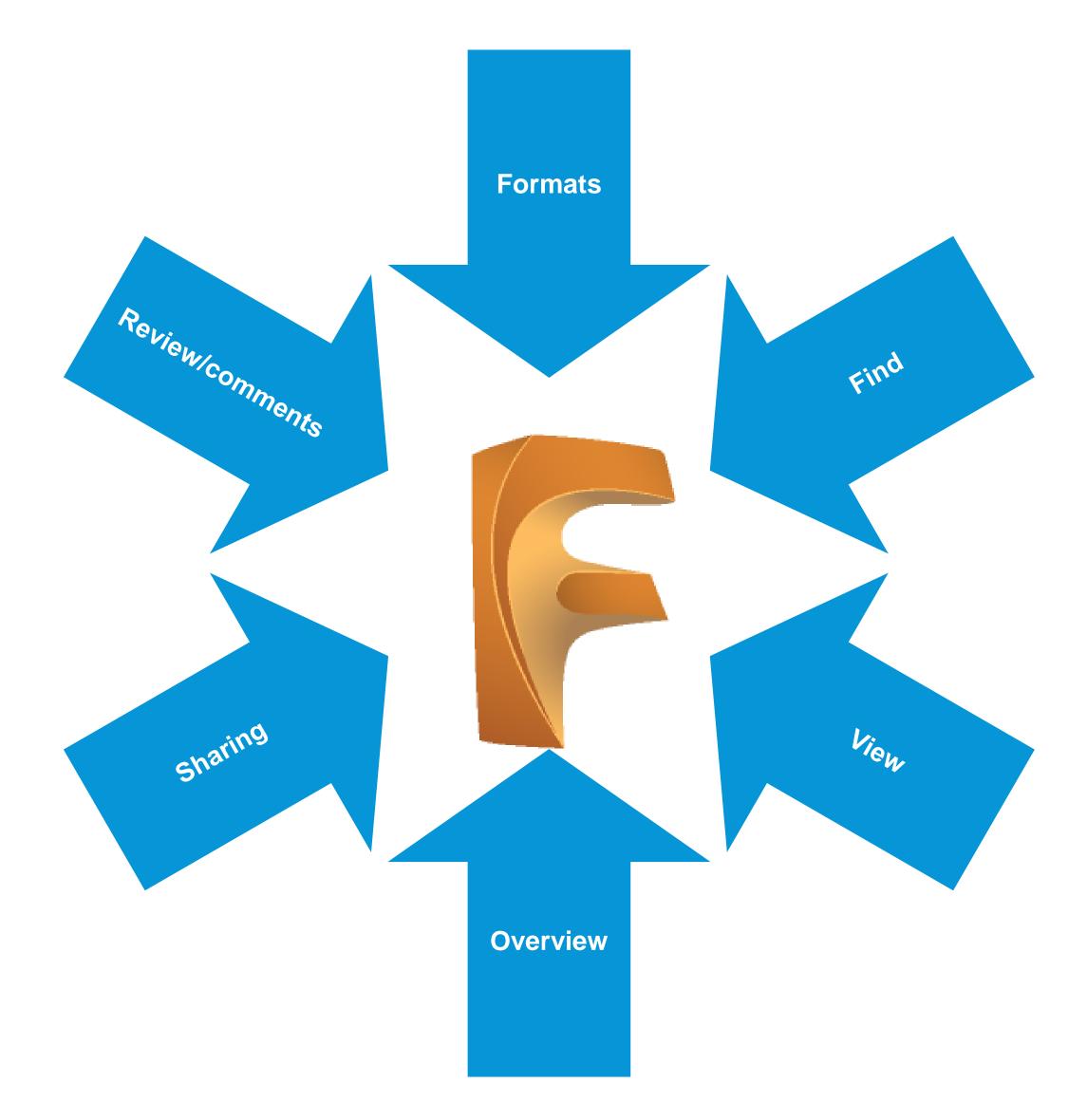
- Browse all Projects
 - Except Secret ones
- See other Members
- Able to invite (if allowed by Admin)
- Join any Open, request to join Closed
 - Must be invite to Secret
- Delete/move/copy in Projects they are members of

Project Access Roles

	Project Admin	Editor	Viewer
View Files(online), folders, comments (view and post) and people	√	✓	
Get Link and Live Review Get link for shared files and initiate live review		√	
Edit, Upload, Download Copy, move, rename, and delete files/folder		√	
Manage Sharing Enable and set public sharing, invite others to the project		√	
Project Admin Project settings, approve people in the project, set access levels	√		

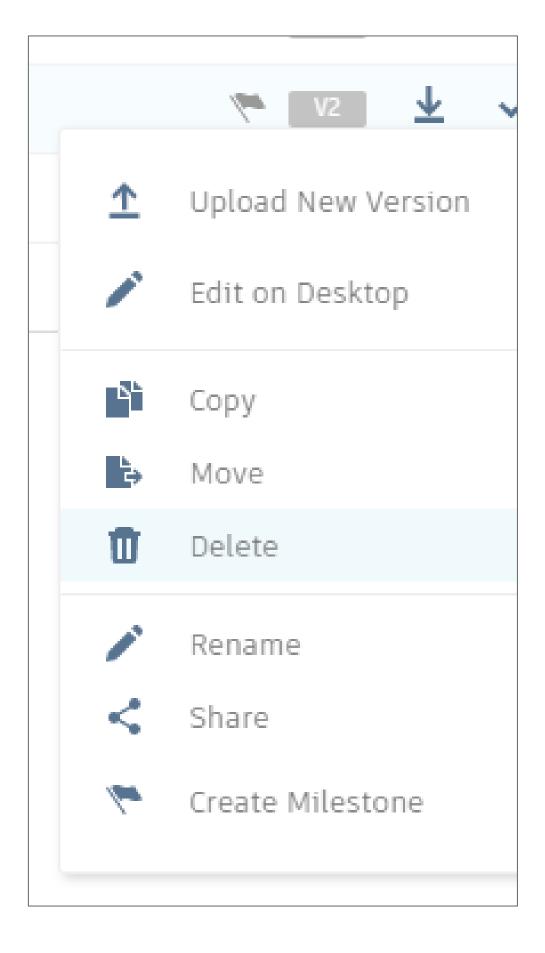
Data Management

Interacting with Data



Managing Data

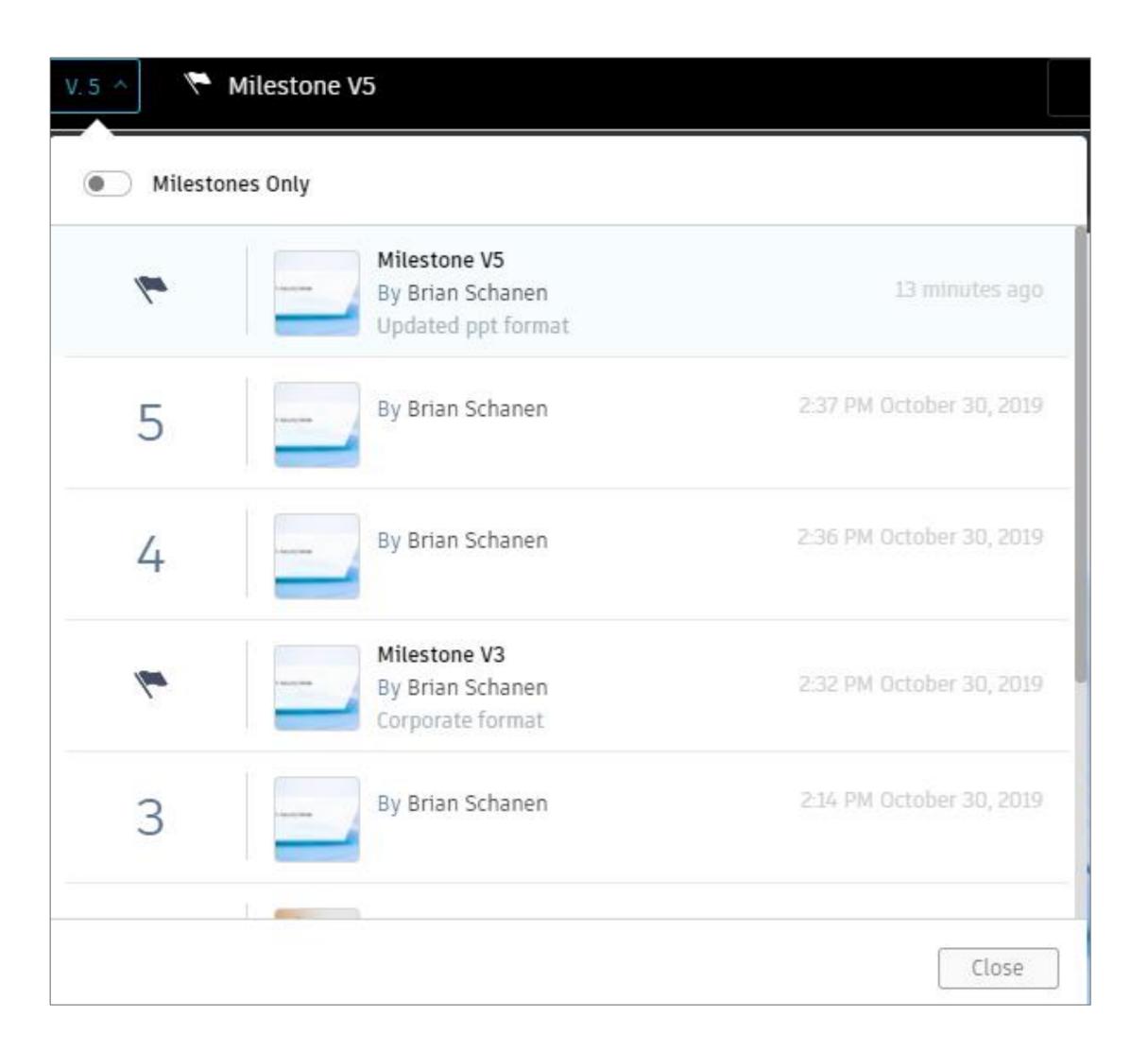
- Properties
- Retrieving Data
 - Downloading
 - Linking
- Trash
 - By Project
 - By Folder
- Archive Projects
 - Admin Restore





Managing Data

- Versioning files
- Milestones on versions
- Promoting versions



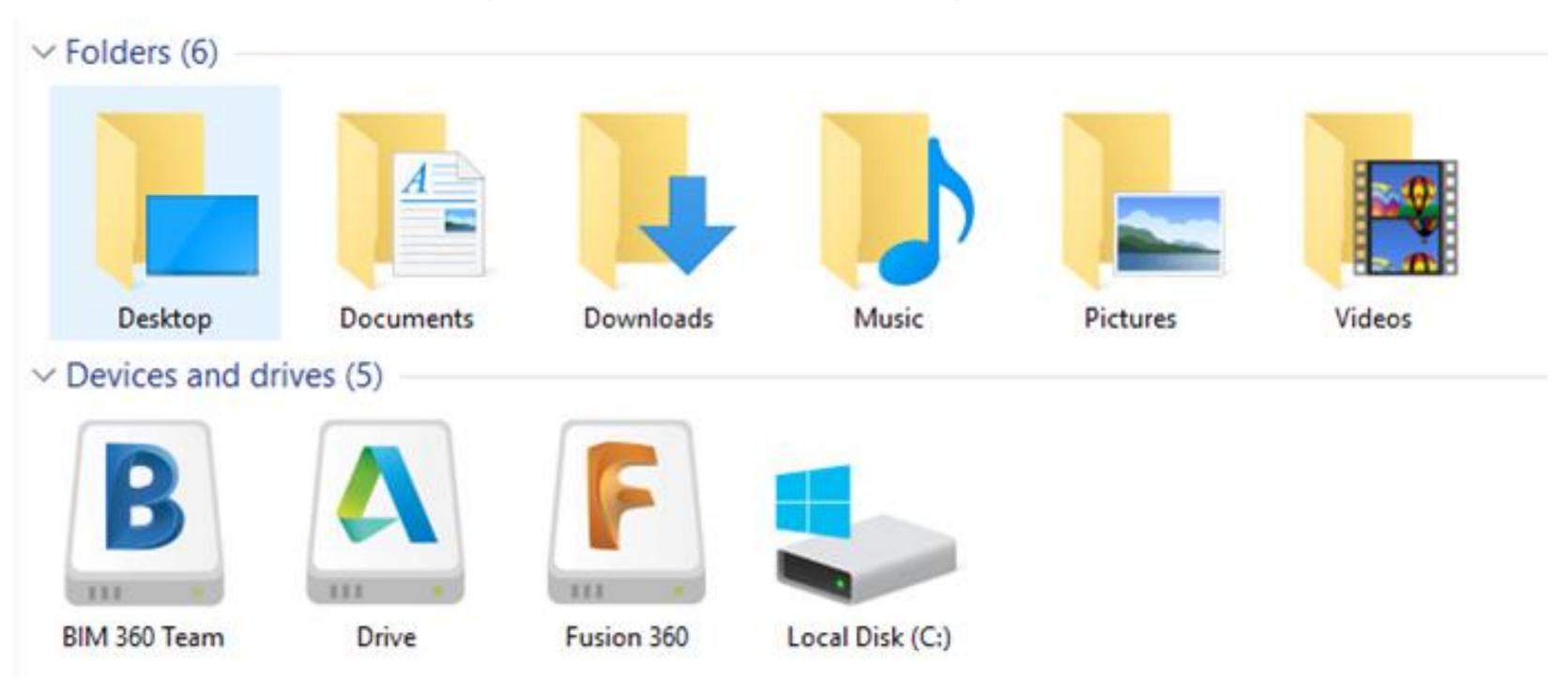


Autodesk Desktop Connector

• Creates virtual 'drives' within Explorer, to directly work, open, save pack & go to / from Autodesk Drive, BIM360 Team /

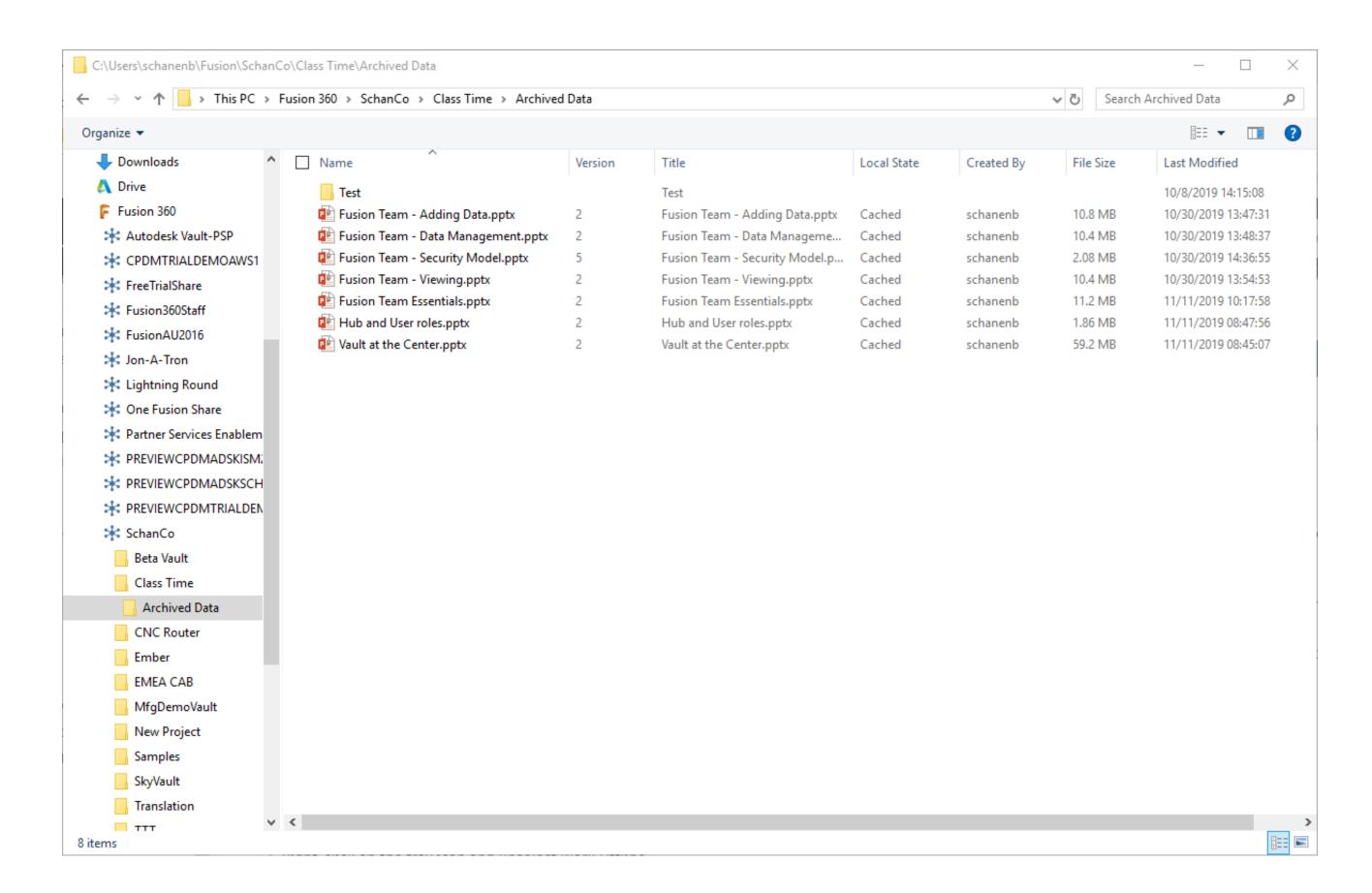
Docs & Fusion Team





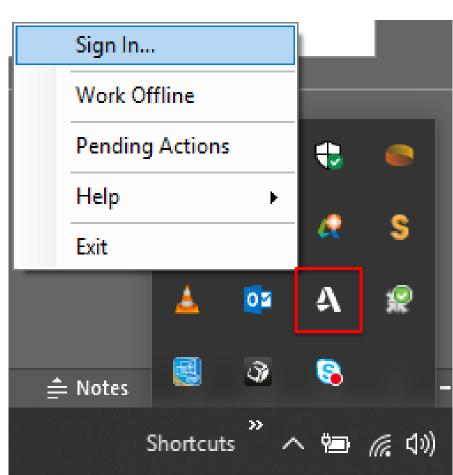
Desktop Connector

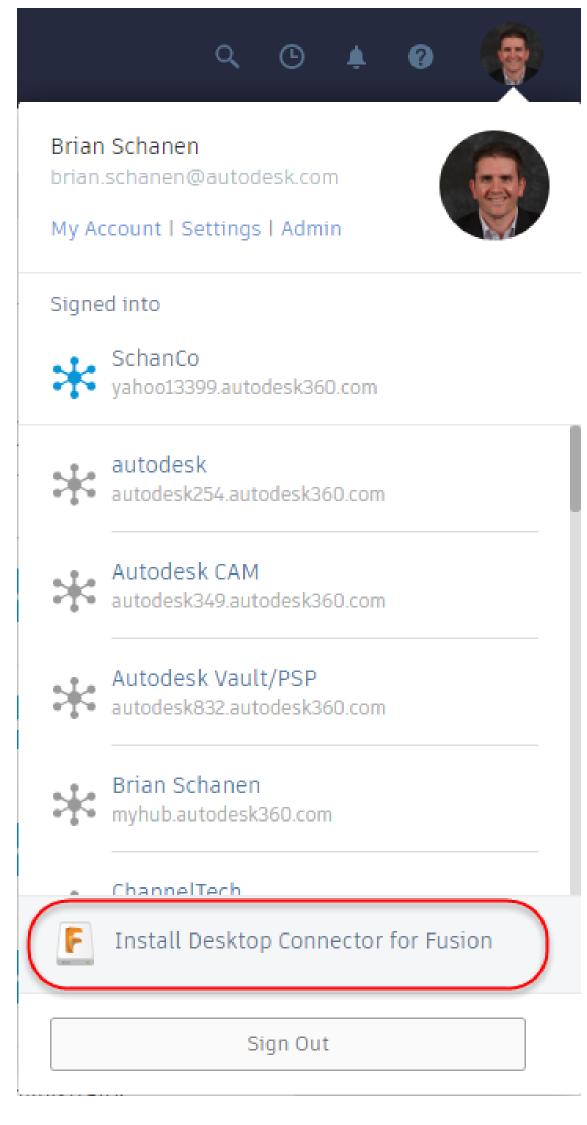
- Only available with Windows OS
 - Modify the folder view
- Refresh / Poll time: 10 minutes
- Offline mode 15-day stale timeout
- Diagnostic mode
 - Debugging
 - Pending Actions queue



Configuring Desktop Connector

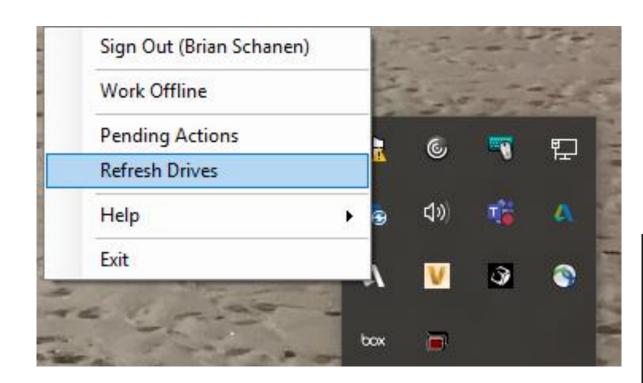
- A company's contract manager must allow user access
- Go to Fusion Team & sign in with your Autodesk ID
- Install the Desktop Connector by clicking down from your profile picture within Drive
- Sign in to the Desktop Connector with your Autodesk ID
- Load up some data or invite collaborators to share their data, and off you go.

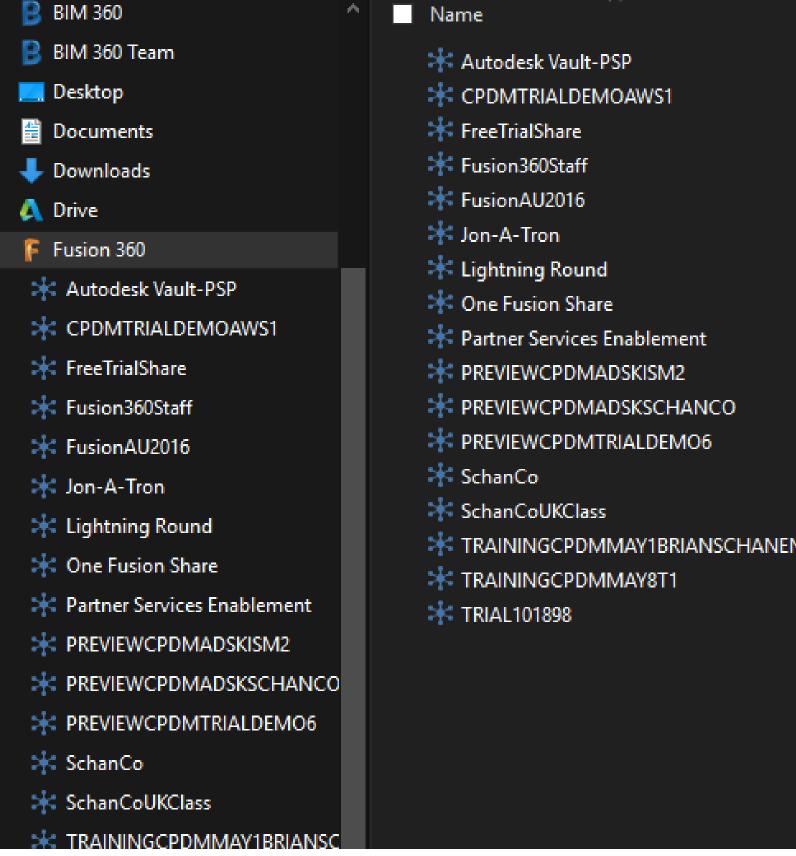




Within Windows Explorer

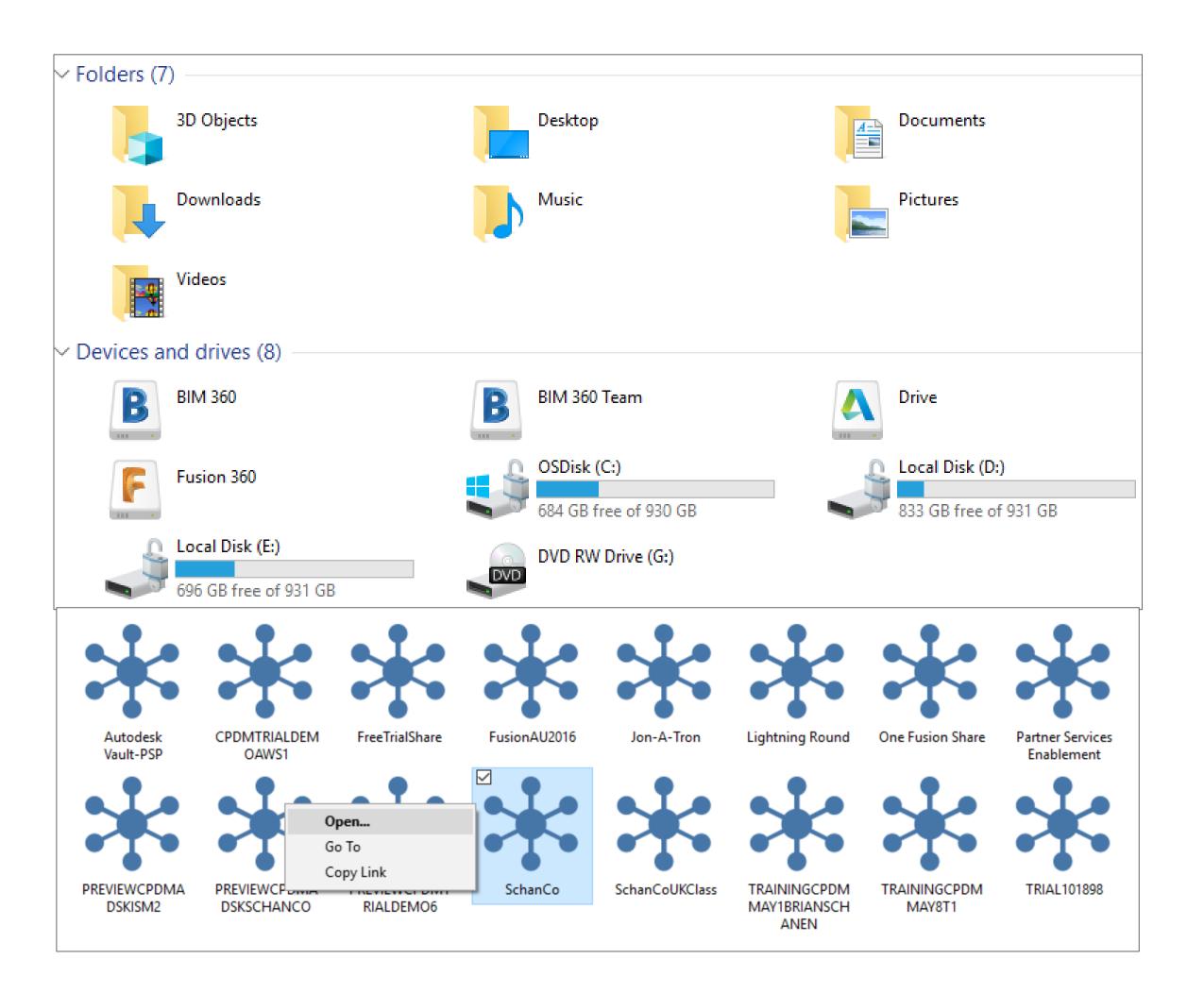
- Open Windows Explorer
- ->This PC>Fusion 360>.....
 - Verify hub is showing
- IF this hub does NOT appear
 - Go to Desktop Connector in system tray
 - o Right click, Refresh Drives

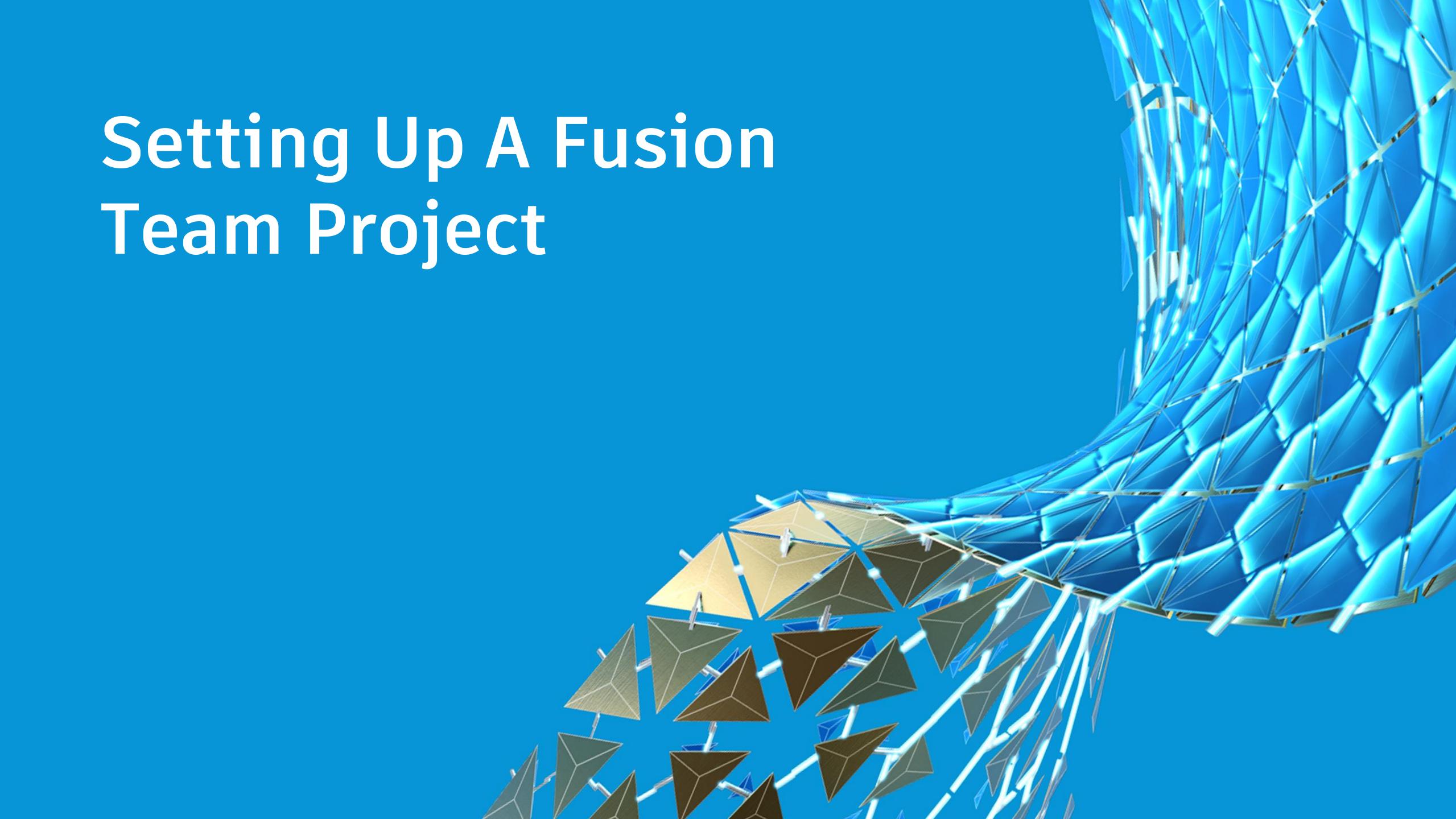




Browsers & Platforms

- Fusion Team can be accessed through
 - o Google Chrome
 - Mozilla Firefox
 - Apple Safari
 - Internet Explorer 11*
 - Microsoft Edge
- Mobile Fusion 360 App
- Operating Systems
 - o Win 8, 10
- Note: Additional drives may appear
 - o BIM 360
 - o BIM 360 Team
 - Autodesk Drive





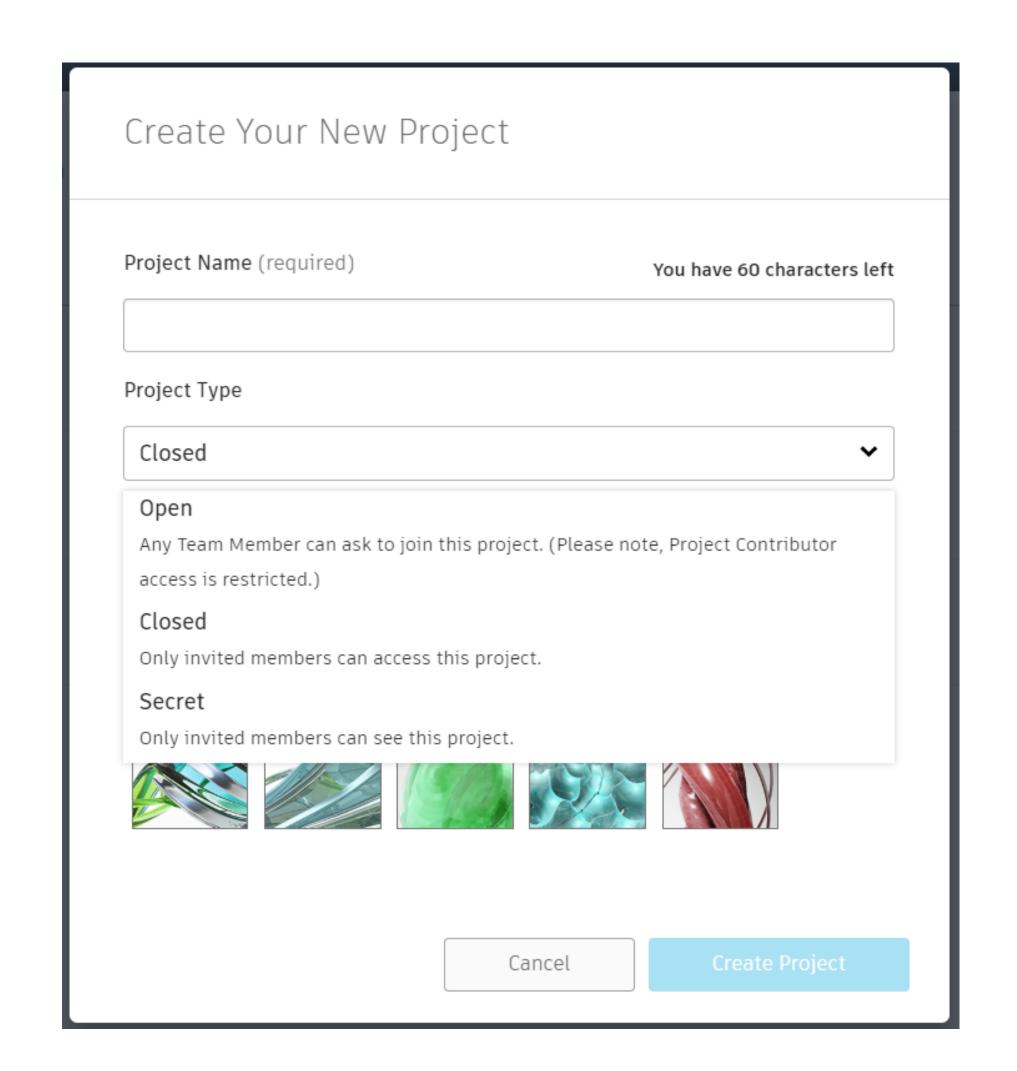
Disclaimer

- Fusion Hub needs to already be set up before doing any of this. This should be set up by your IT administrator.
- Must have the rights to be able to create projects
 - Hub role: Team Administrator or Team member



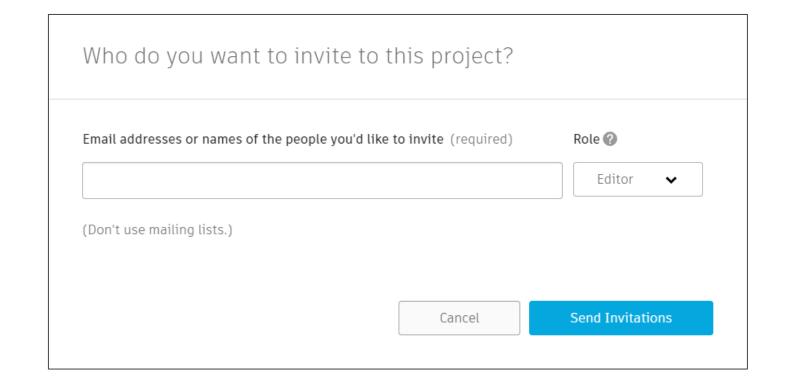
Steps to create a project

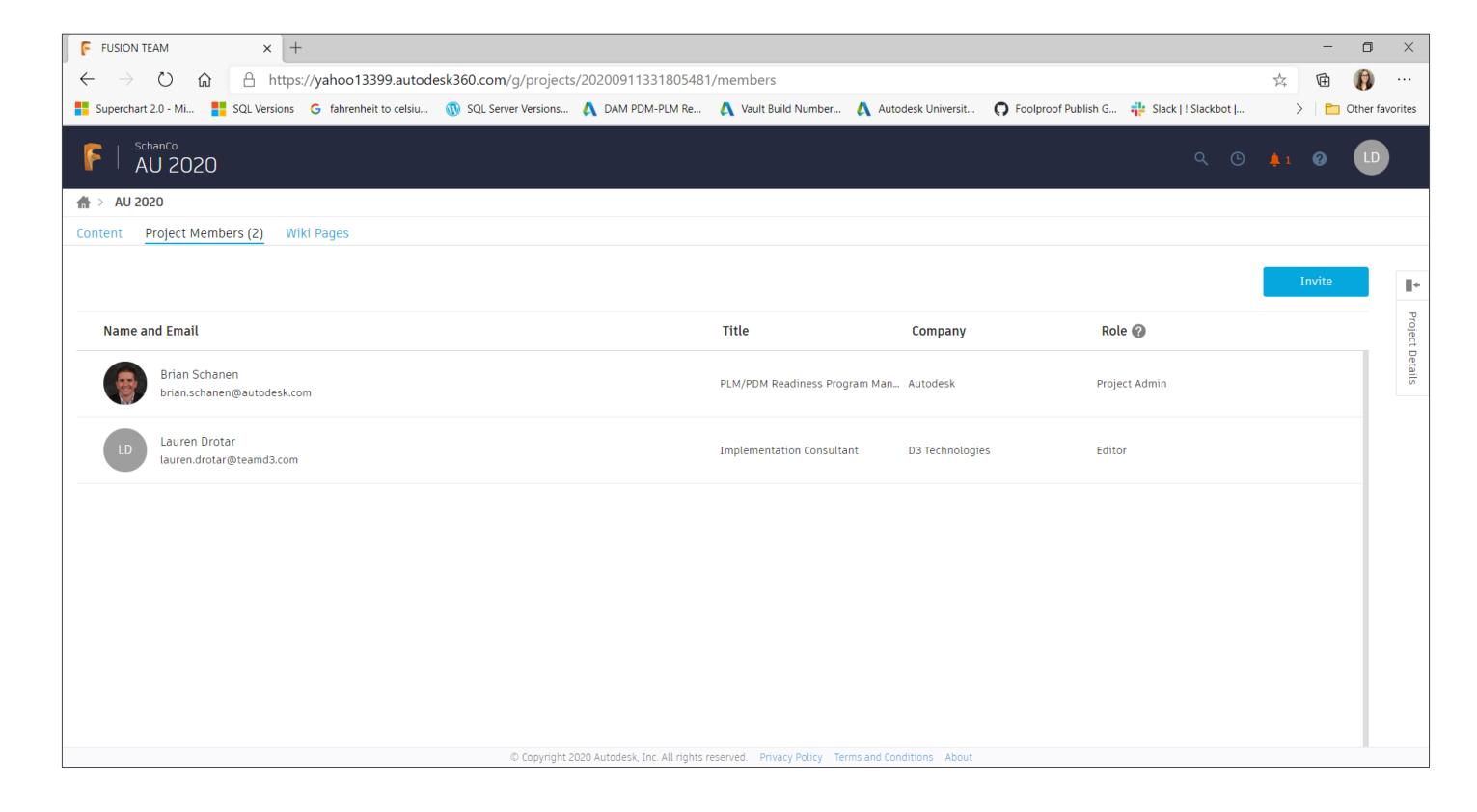
- 1. Click "Create Project"
- 2. Name project, select project type & choose avatar



Assigning Users to Projects

- Add users & assign
 roles by email address
 - Once created, user can be elevated to project admin





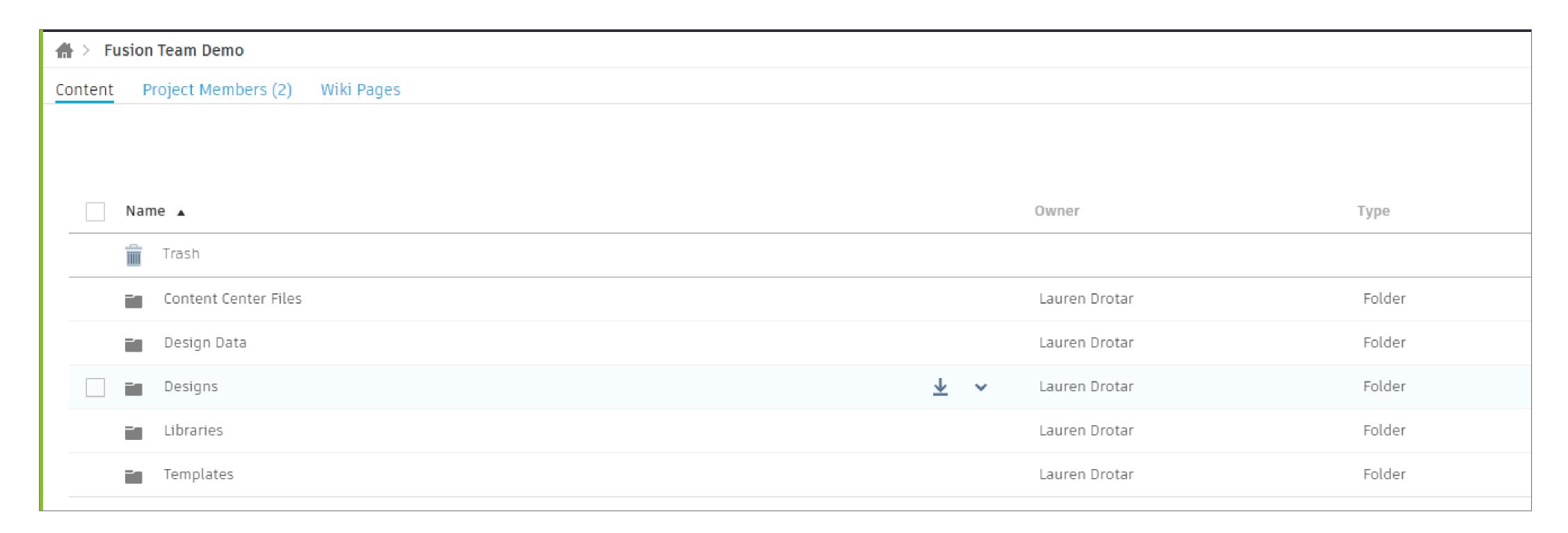
Finishing Touches

- And just like that- you can start working!
- Begin creating folder hierarchy
- Continue adding users and adding folder structure



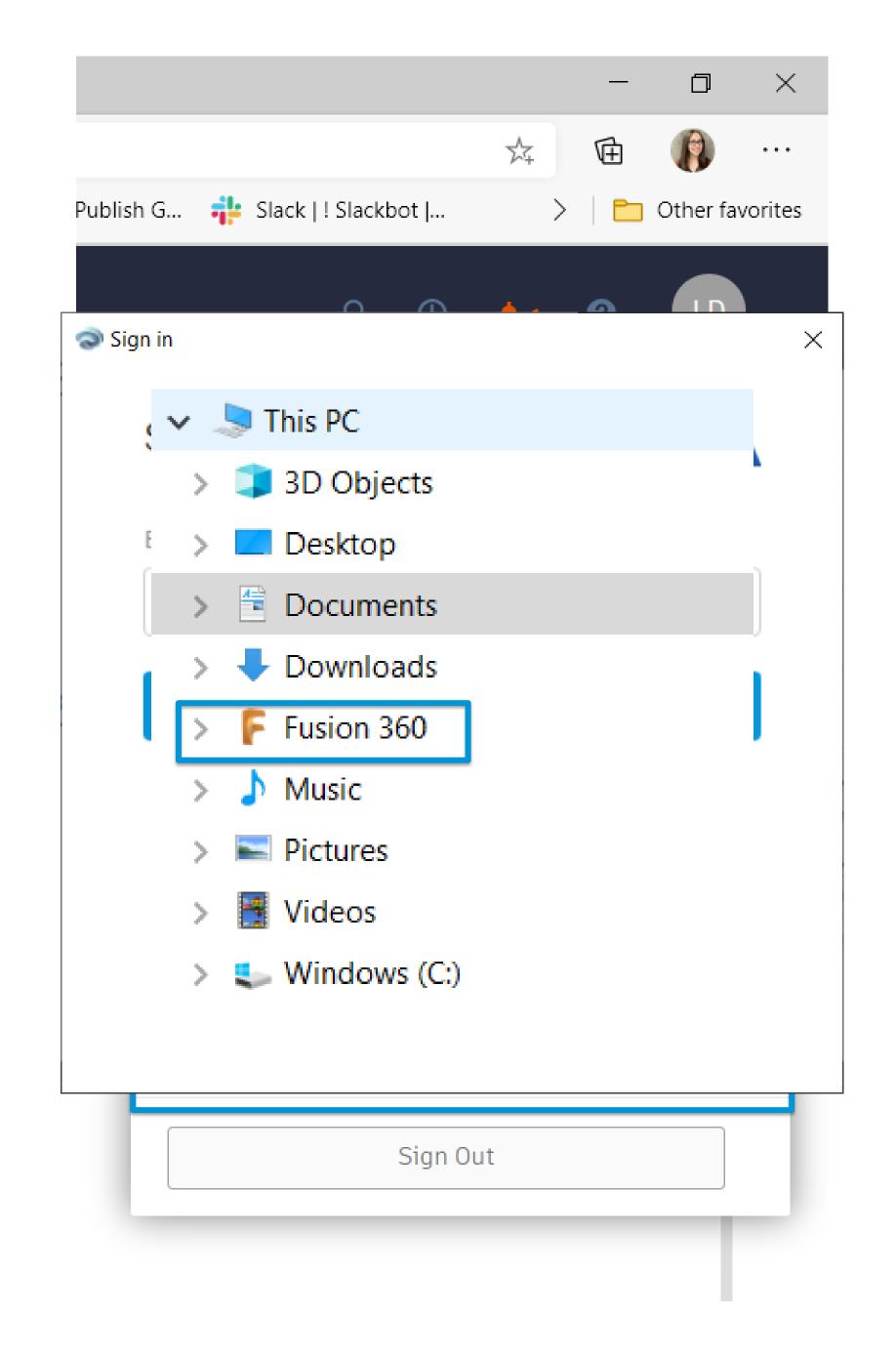
Project Folder Structure: Best Practices

- Create the following folders directly within the Project:
 - Content Center Files
 - Design Data
 - Libraries
 - Templates
 - Designs



Desktop Connector

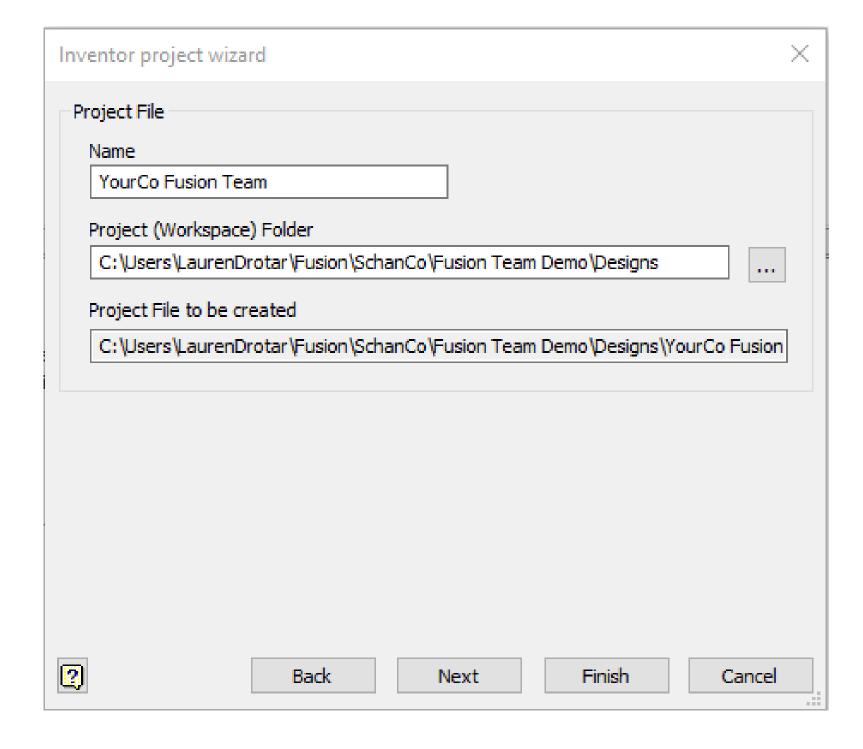
- Download & install from Fusion
 Team
- 2. Sign in with Autodesk account
- Verify the hub shows in Windows Explorer

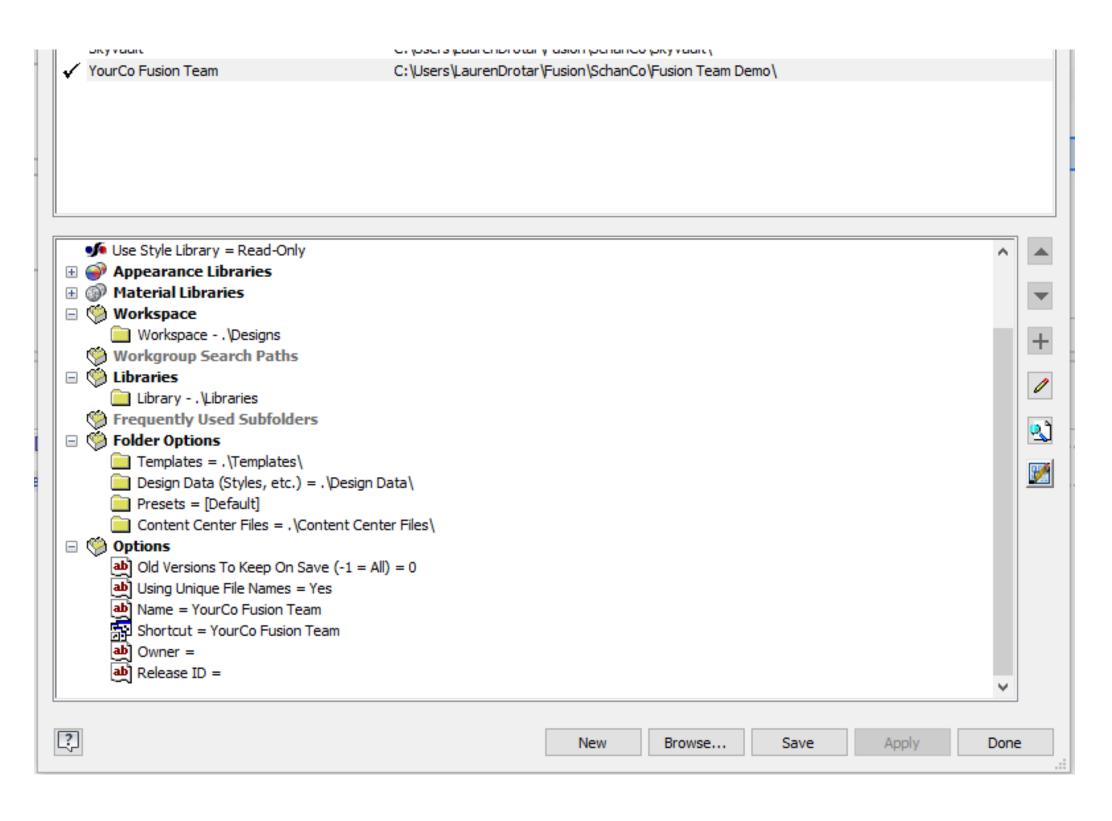


Create Inventor .ipj for Fusion Team

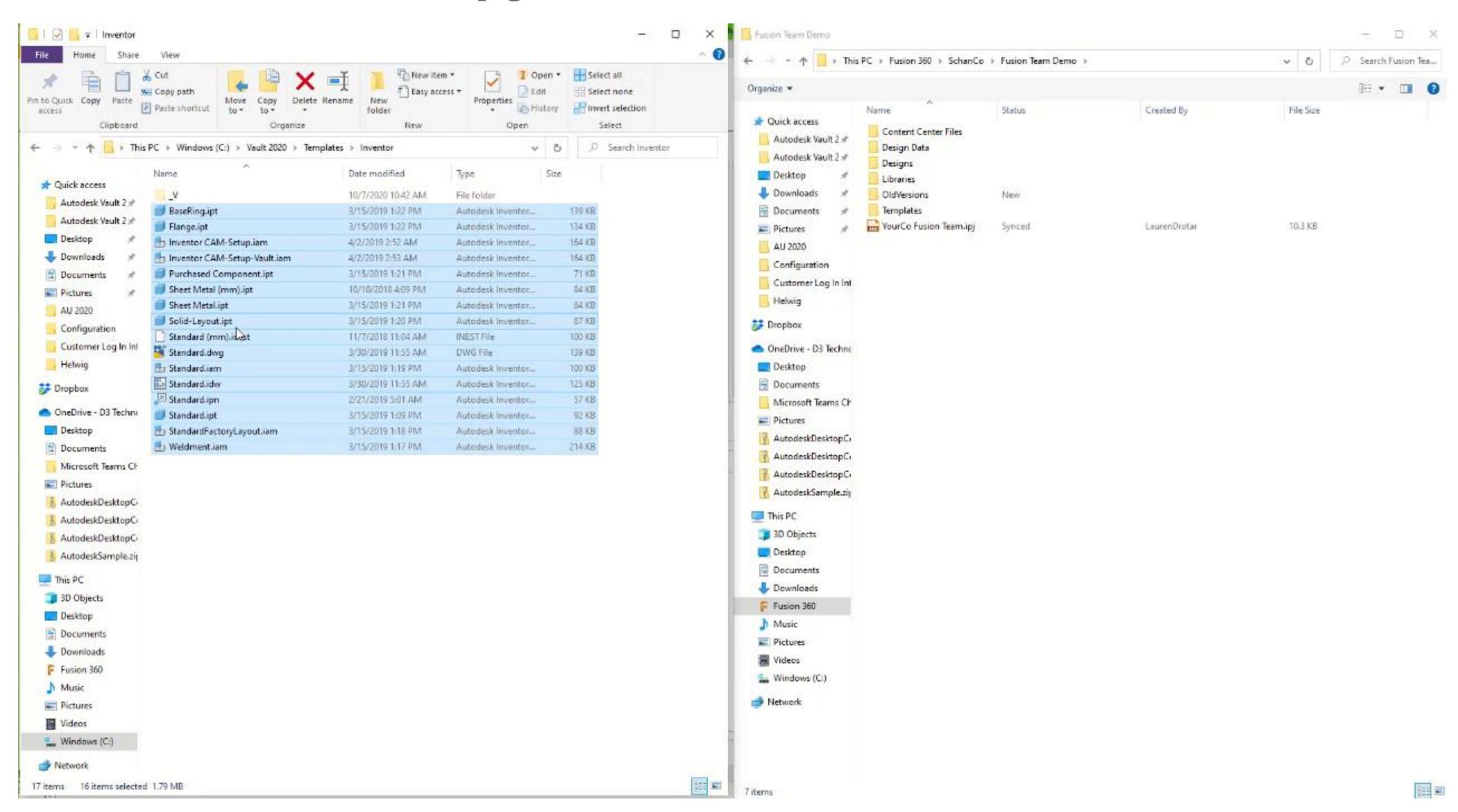
- Say yes to copying all Design Data to this location
- Copy templates, libraries, etc. to Fusion hub location in

DC

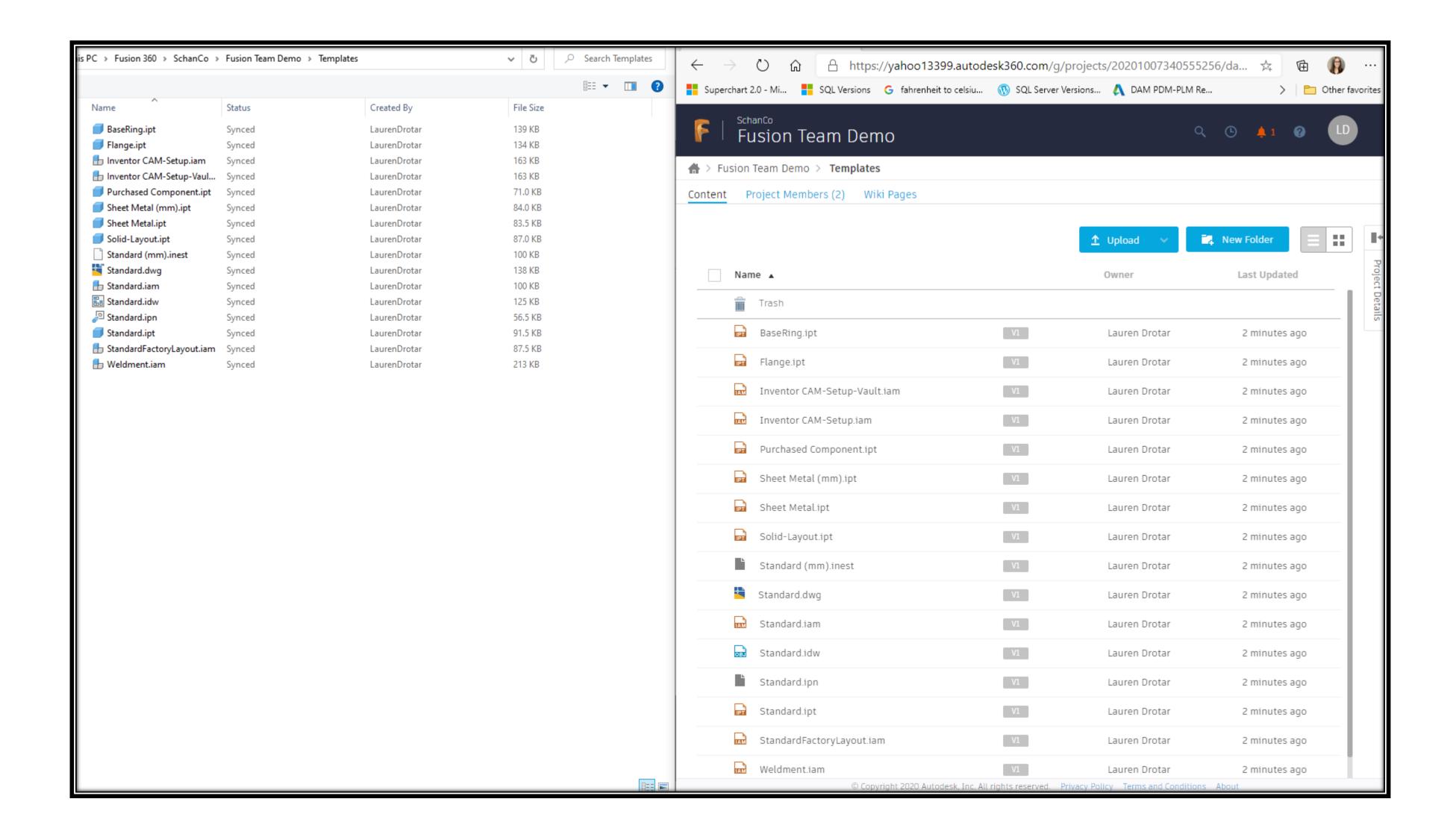


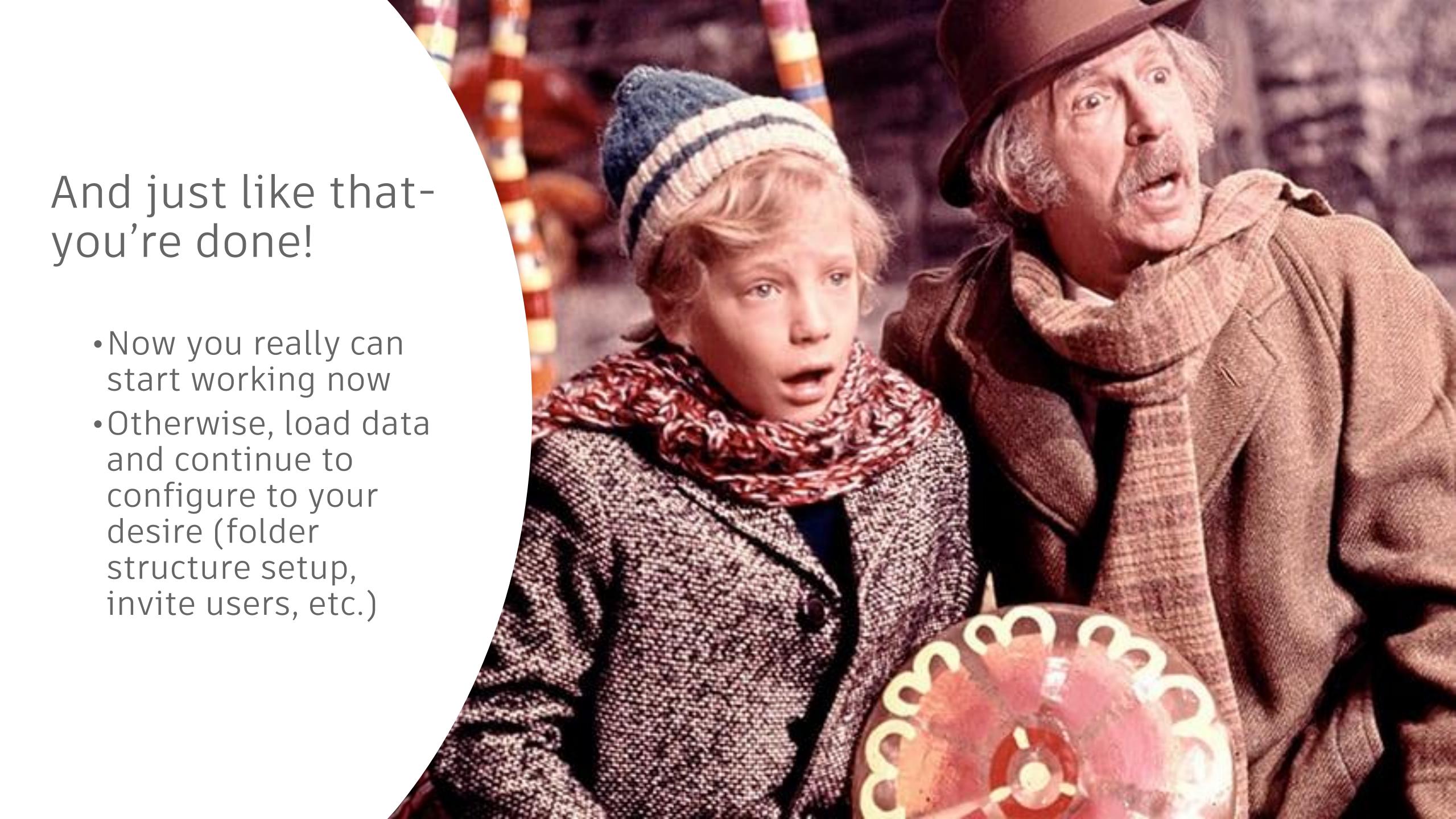


Create Inventor .ipj for Fusion Team



Let's Look Back at Fusion Team







Compare & Contrast Fusion Team with Vault



- Content indexing
- Items, BOMs, Change Orders
 - Revisions
 - On premise
 - Shared views
 - Add-Ins

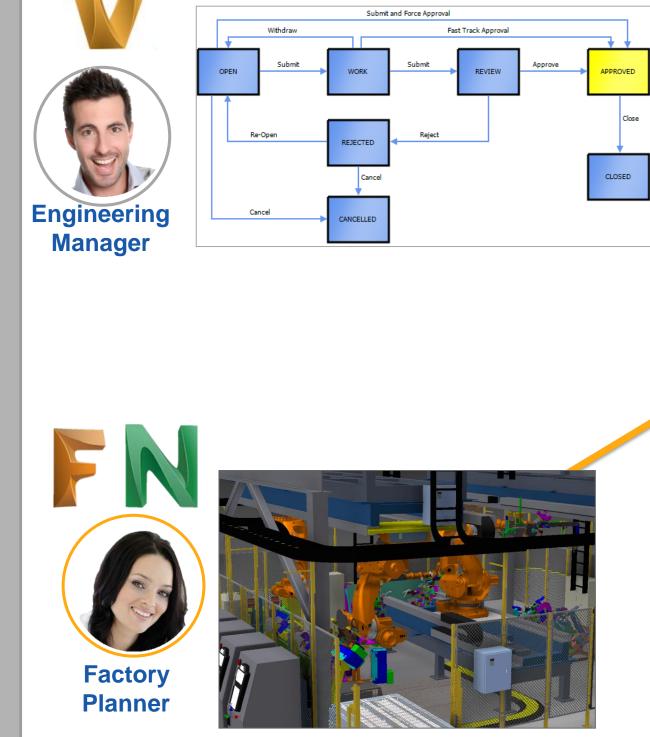
Fusion Team

- Cloud-based Entitlement
 - Desktop connector
- .ipj file needed for each project
- Different project types
- User roles (hub & project)
 - Markups
 - BYOL (Bring Your Own License)

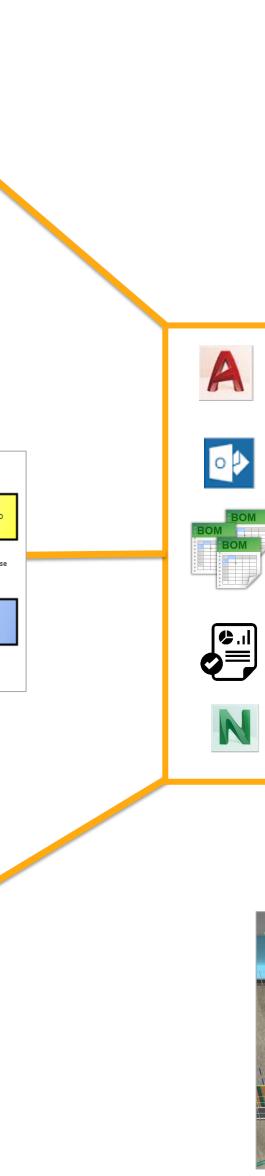
Both FT & Vault

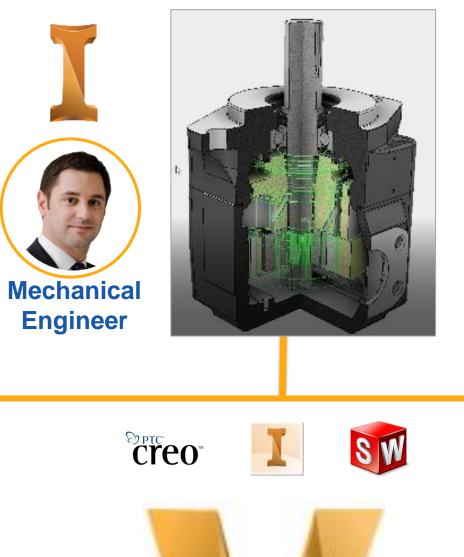
- Understand relationships
- Supported file formats
 - Versioning
 - Views
- Uses/where used info
- Permissions/security
- Copy/move/delete/rename files

FIREWALL



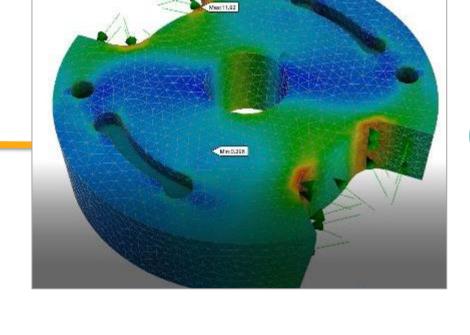
Detailer

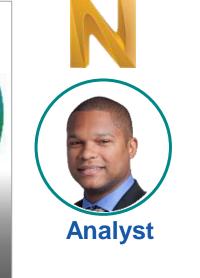


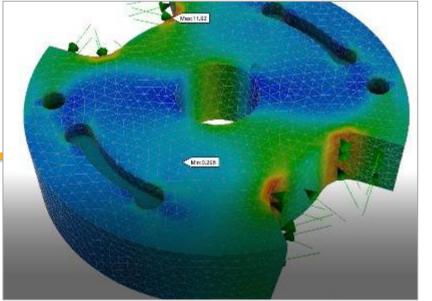


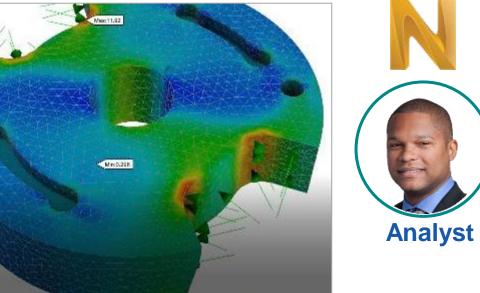
Engineering Data in central location

PDM

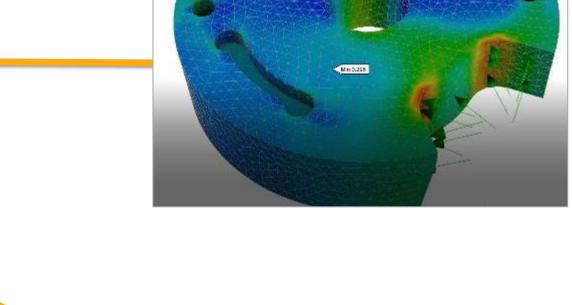








Electrical Designer





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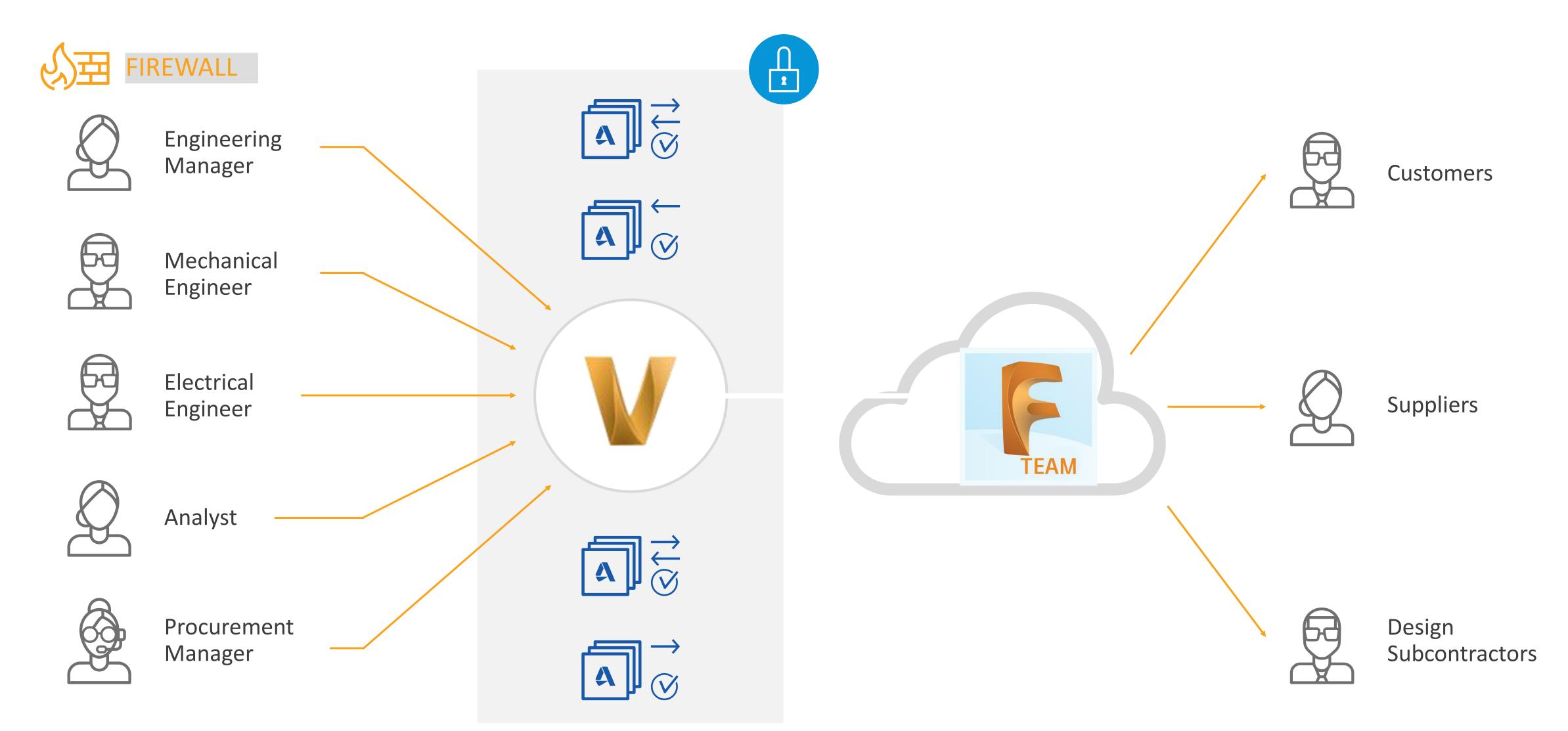
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X



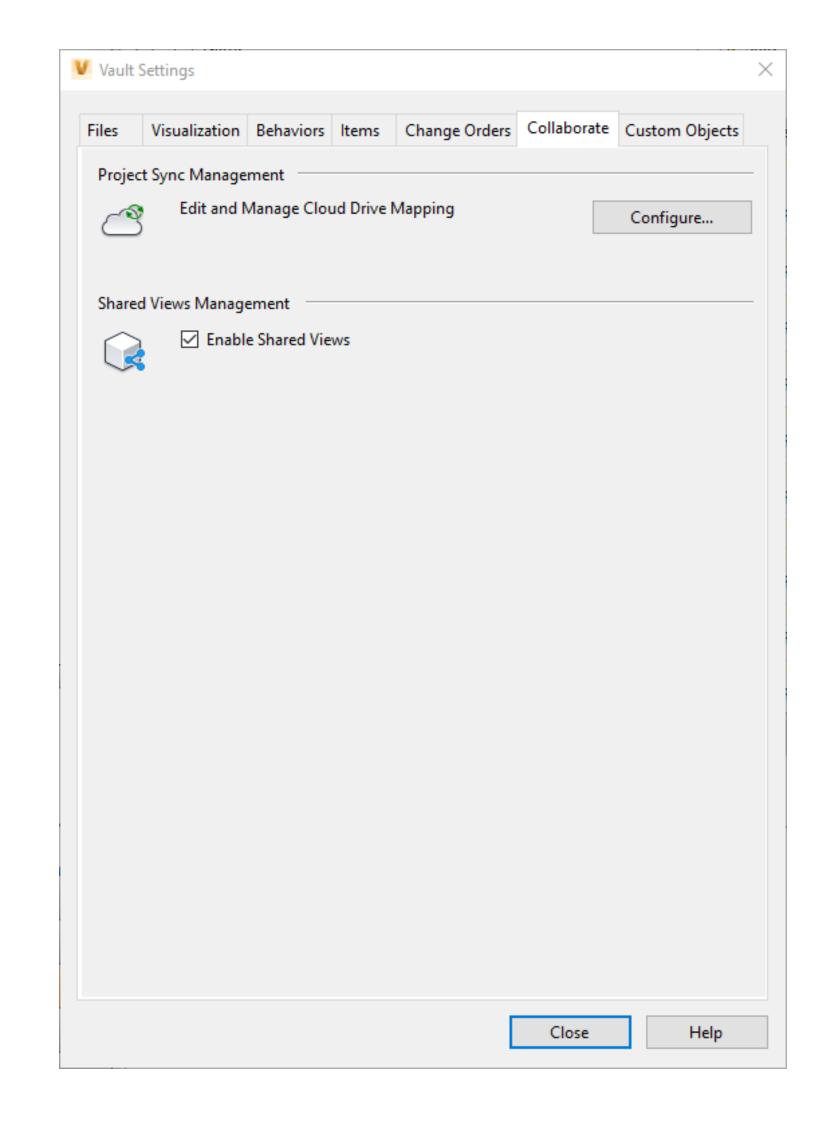


Collaborate

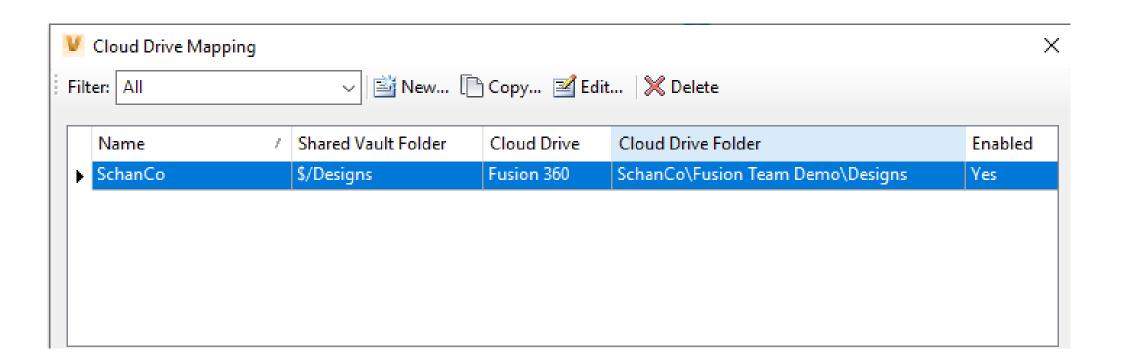


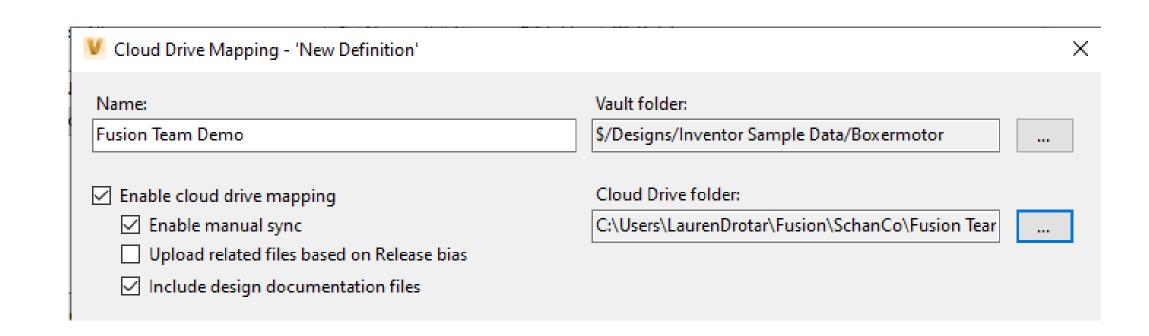


- From the Vault client, go to the Collaborate tab within
 Vault Settings
- Select Configure to begin setting up the project sync configuration

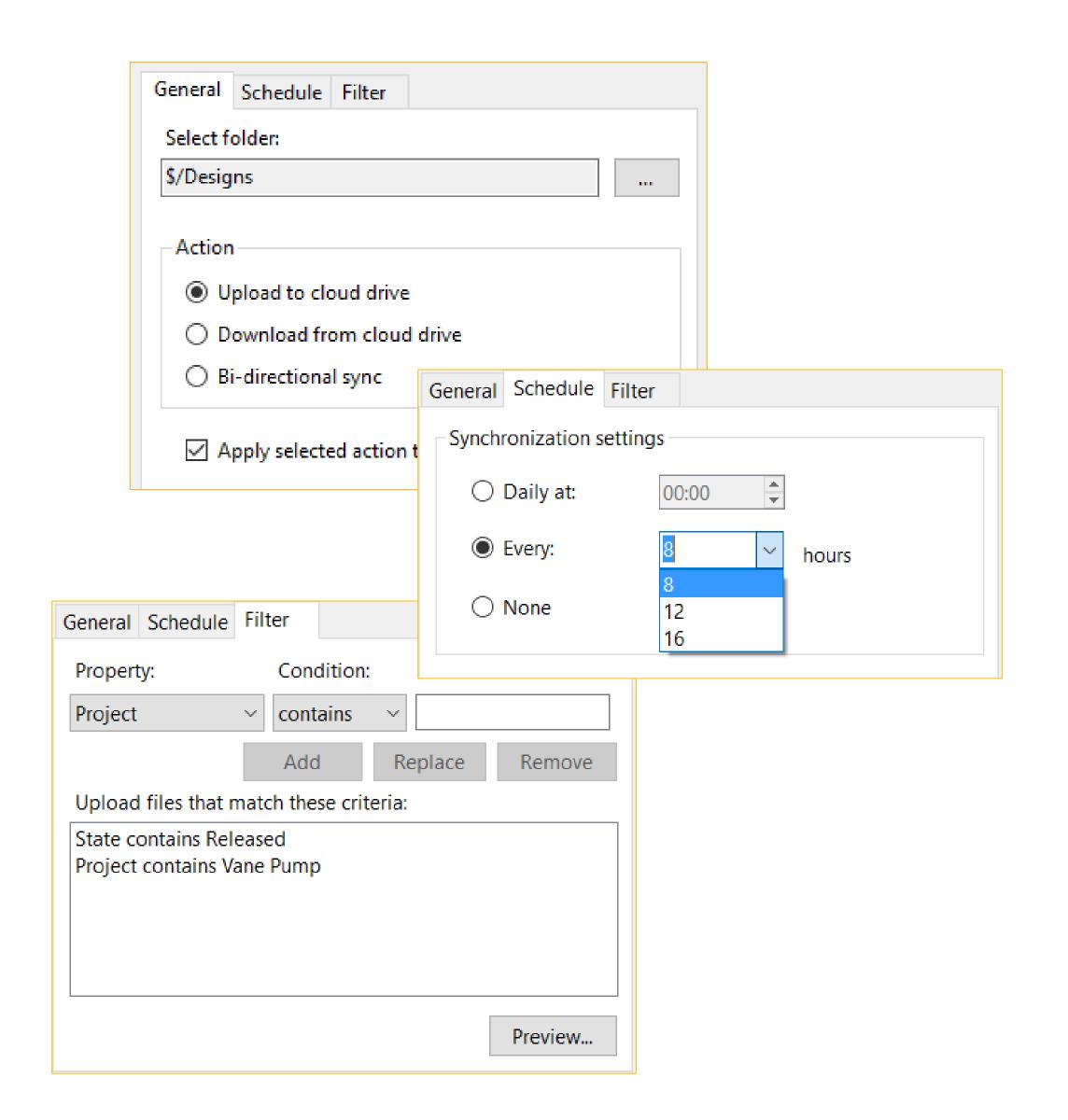


- Cloud Drive Mapping delivers the flexibility to exchange with each collaborator the relevant projects design data
- Disable Enable Manual Sync option to trigger sync based on processes
- Disable Cloud drive mapping after project completion



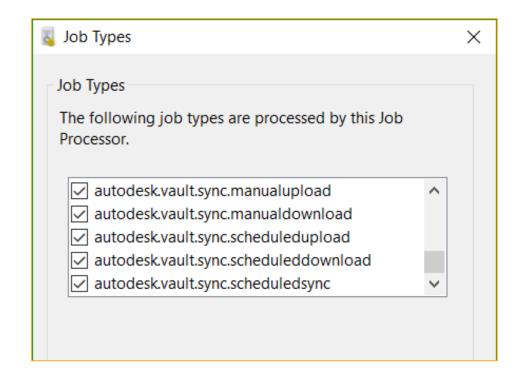


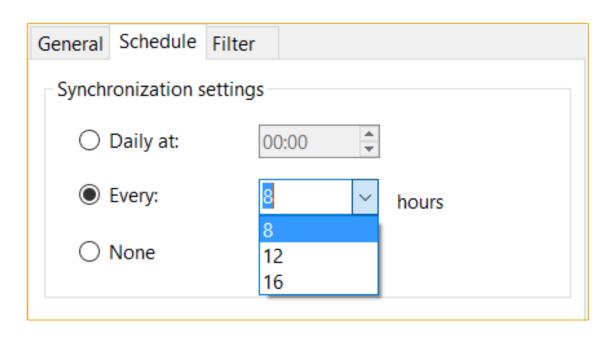
- Synchronization can work in either direction or both directions
 - Option to apply to subfolders
- Scheduled Exchange based on interval or daily time
- Filter capabilities helps administrator make sure collaborator has access only to the subset of project data he needs for his tasks

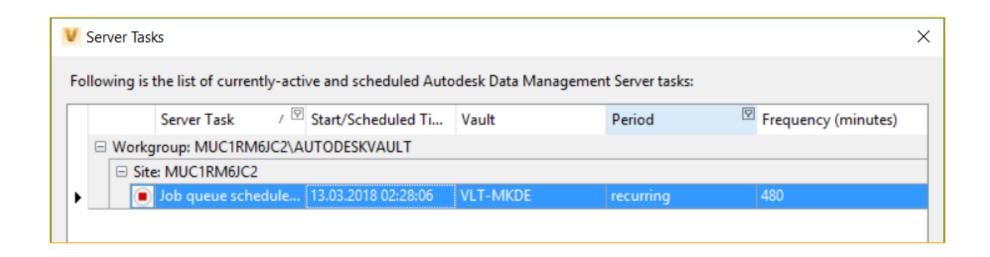


5 OOTB job types

- Manual upload and download
- Scheduled upload and download
- Scheduled sync (bi-directional)
- At scheduled times, a job is added to the queue for execution / consumption
- Scheduled jobs can be viewed with other background tasks in ADMS console
- Desktop Connector is required to be installed on Job Processor machine as well as admin's machine to configure the mapping







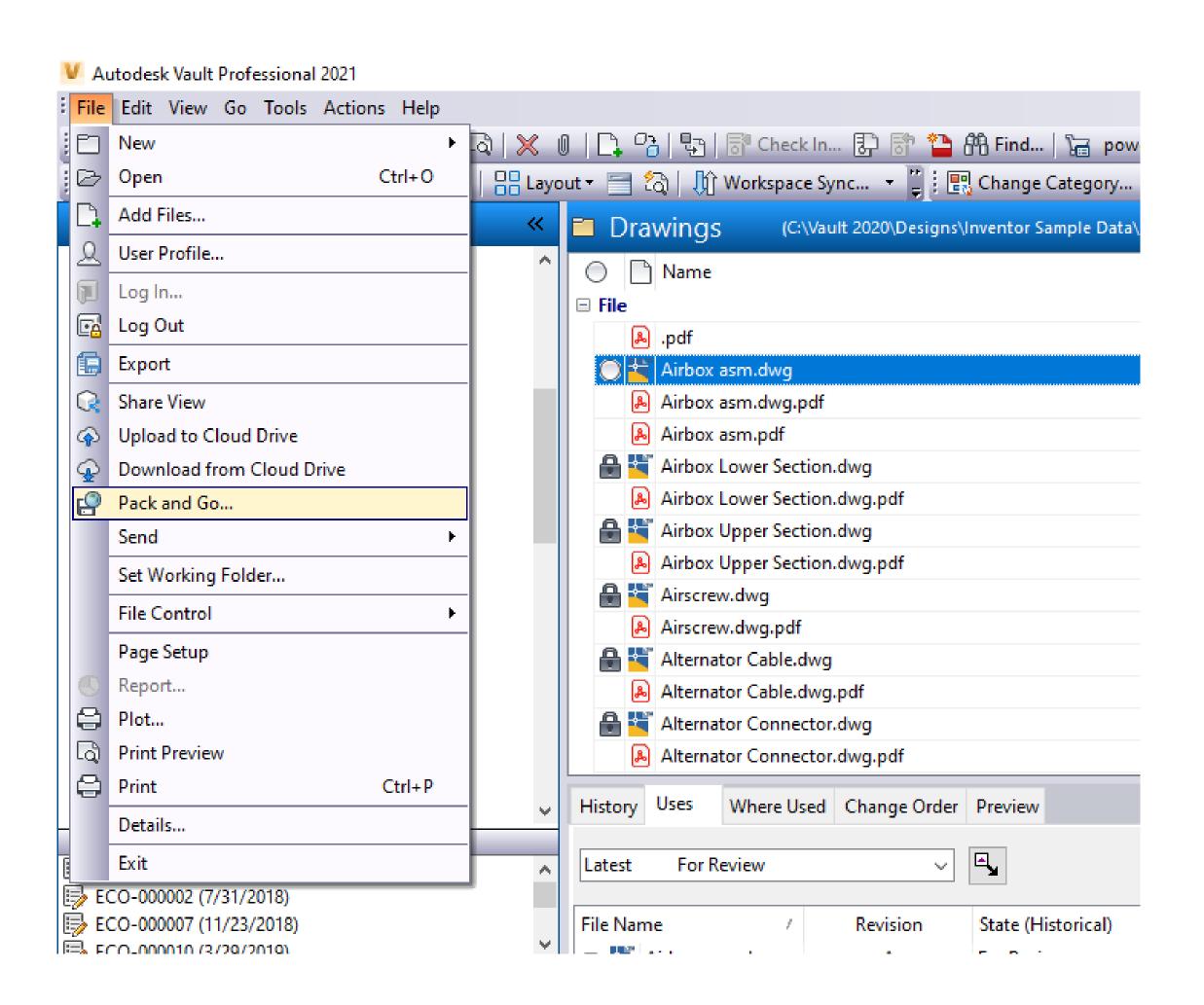
Nitty Gritty Setup Tasks

- Folder setup in Fusion Team should mirror the Vault folder structure
 - Only necessary for the folders you are planning on syncing
 - If you have 45 folders in Vault but only syncing 2, only copy the folder structure for those 2 folders

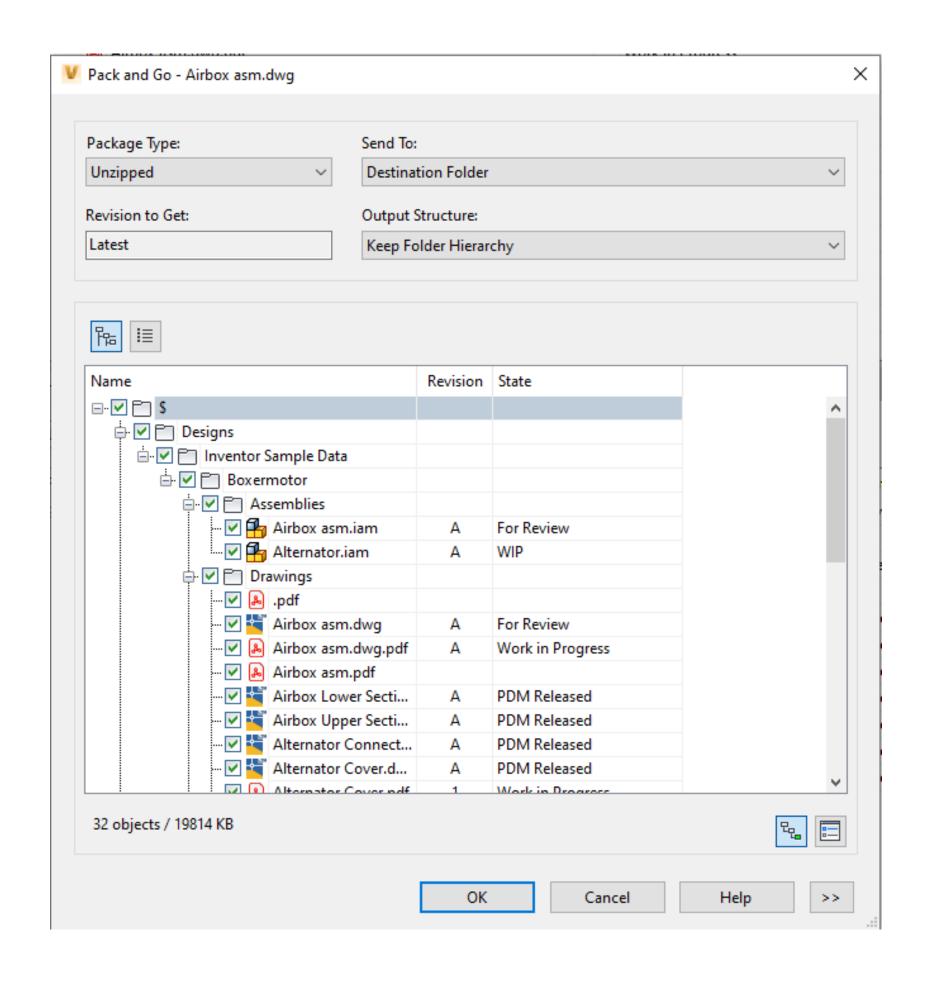
Nitty Gritty Setup Tasks

- This can be done in a few different ways:
 - Pack and Go assemblies/drawings/parts to Fusion 360
 - Manually sync the folder to Fusion 360

Find the file (or files) in Vault
 & select File->Pack and Go

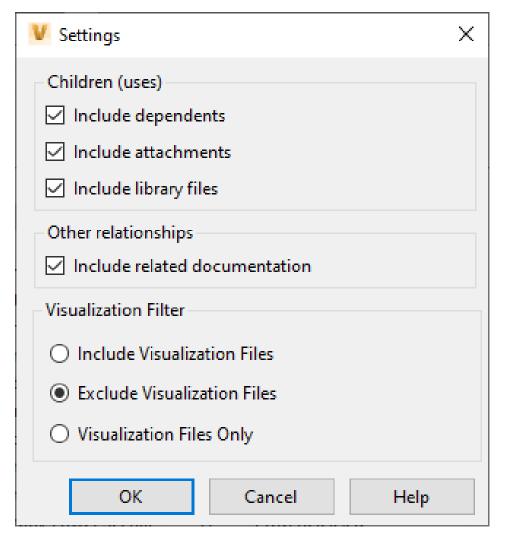


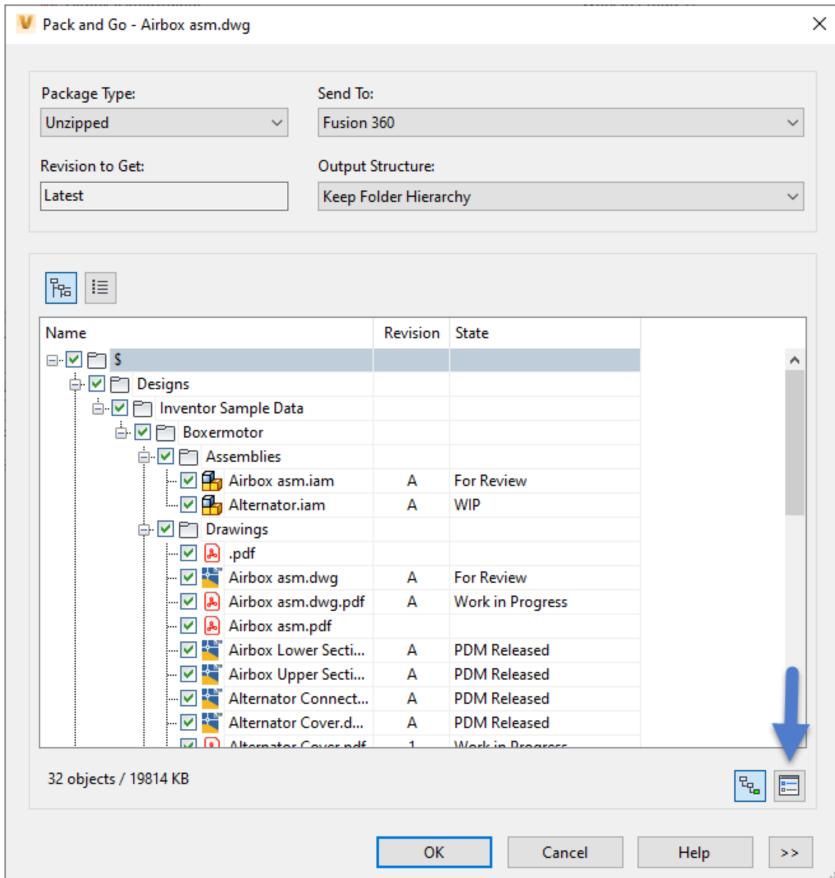
- Configure the Pack and Go options
 - Select the packagetype as Unzipped
 - Send to Fusion 360
 - Output Structure:Keep folder hierarchy



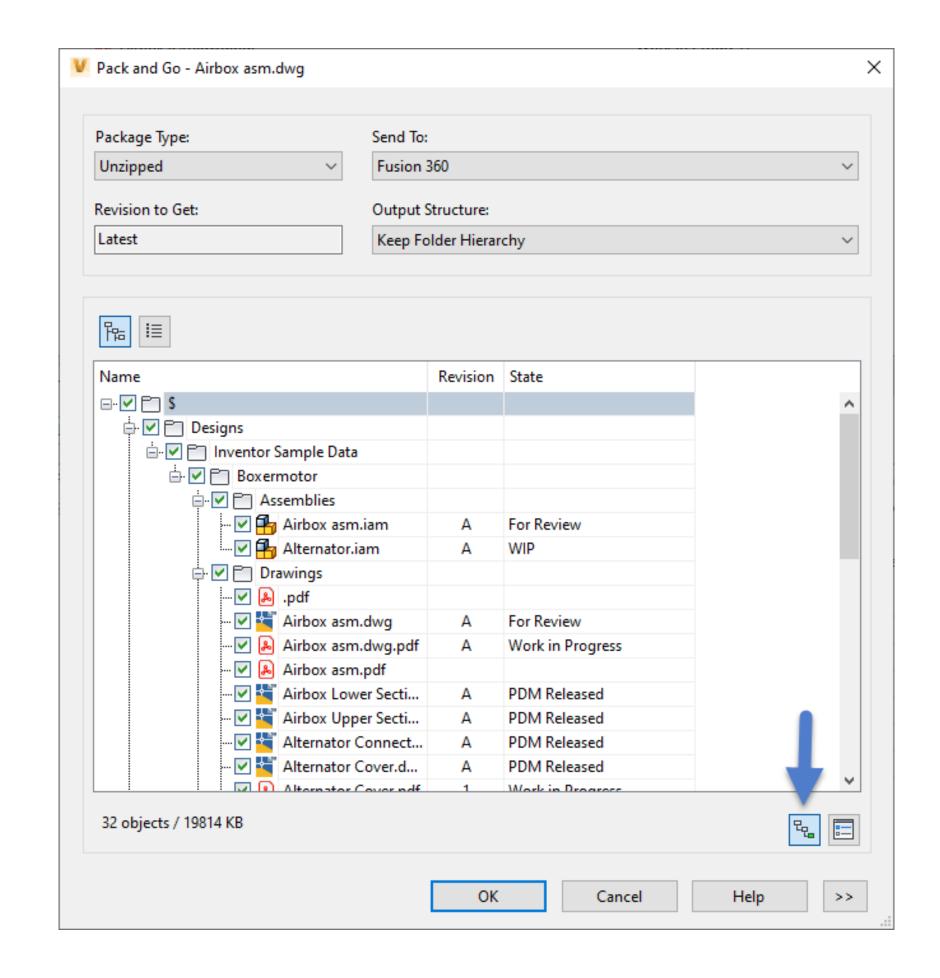
Package Type:	Send To:	
Unzipped	∨ Destination Folder	~
Revision to Get:	Destination Folder Mail Recipient	
Latest	Fusion 360 SharePoint Directory	

- 2. Configure the Pack andGo options
 - Select Settings
 - Choose which children
 or other related files
 will be included





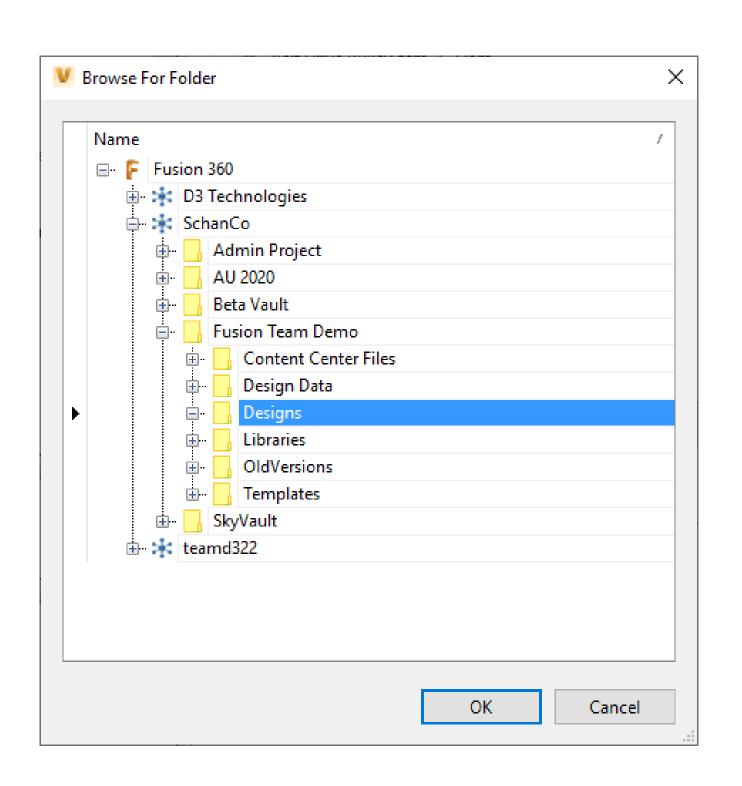
- 2. Configure the Pack andGo options
 - Select whether or not to include dependent files



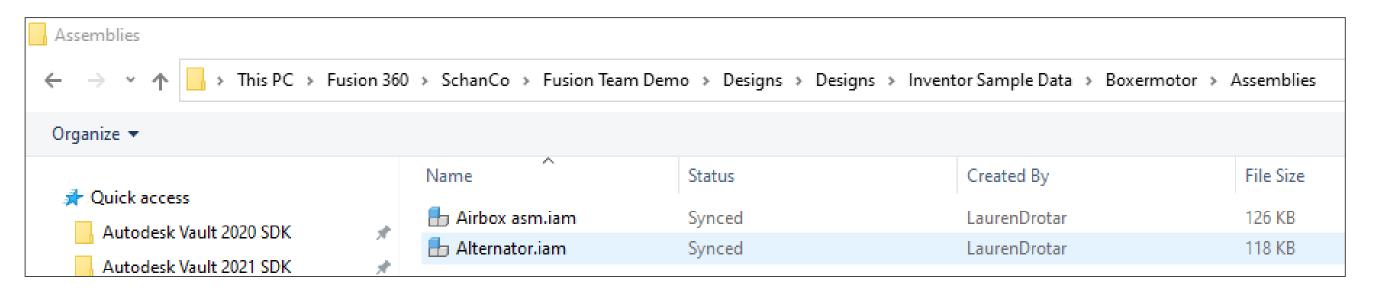
3. Choose Fusion 360 destination

- Folder hierarchy will be created under this folder
- 4. Files will download to Fusion 360 drive



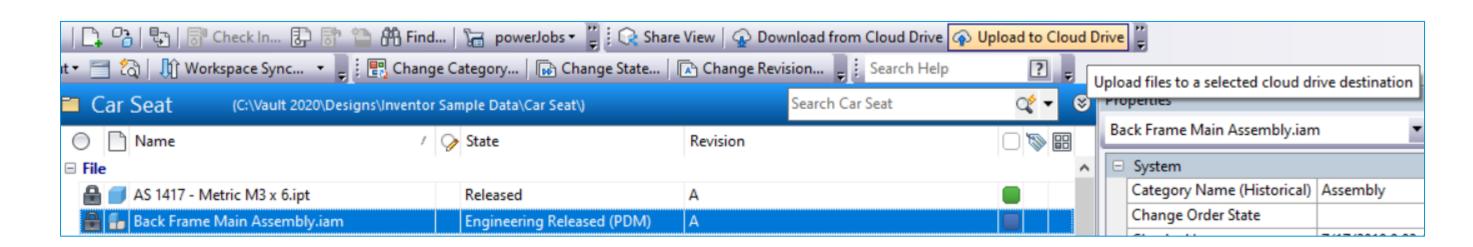


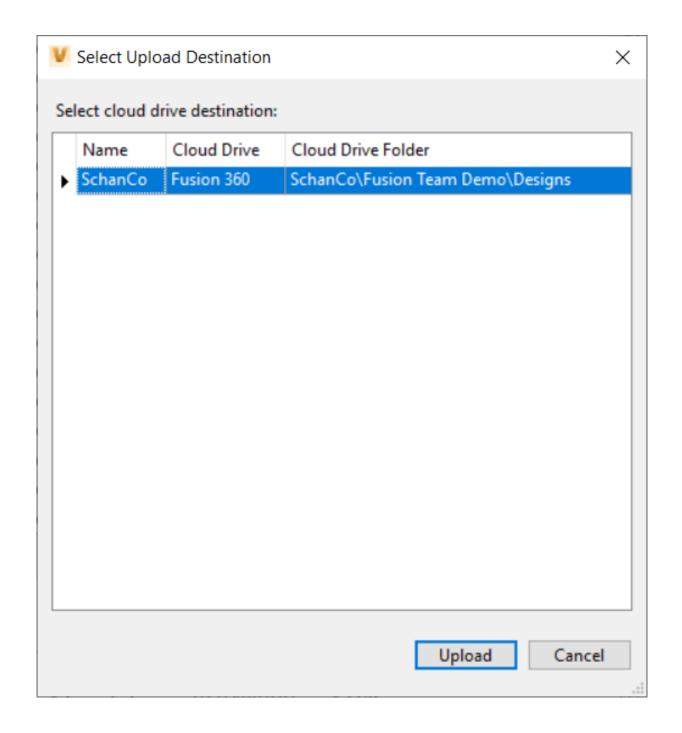
- 3. Double check location in Fusion 360
 - Easy to place files in the wrong location!



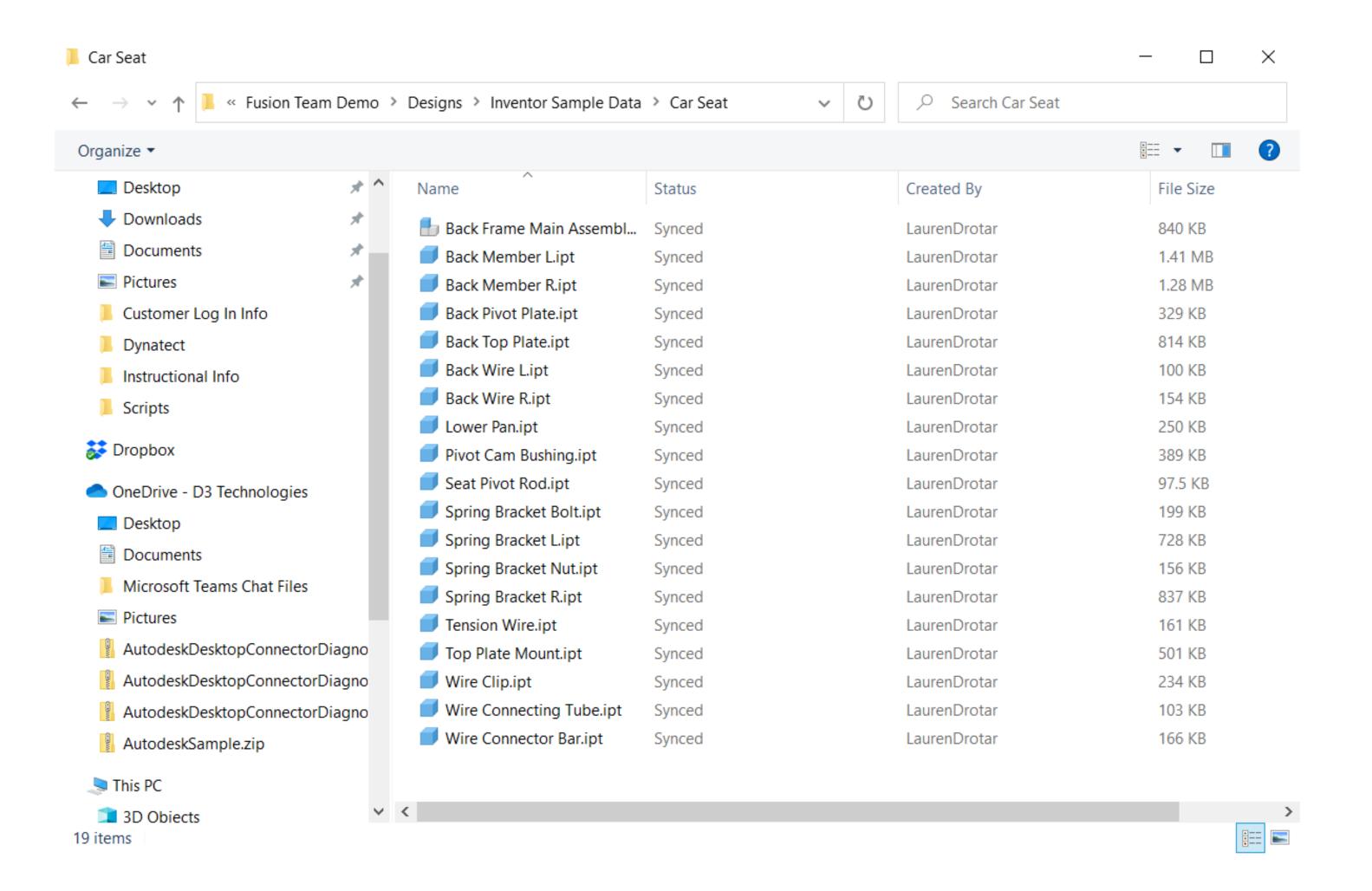
Manual Sync to Fusion 360

- Highlight the desired file in the Main Pane
- Select Upload to Cloud Drive
- Confirm the Cloud Drive destination and click OK



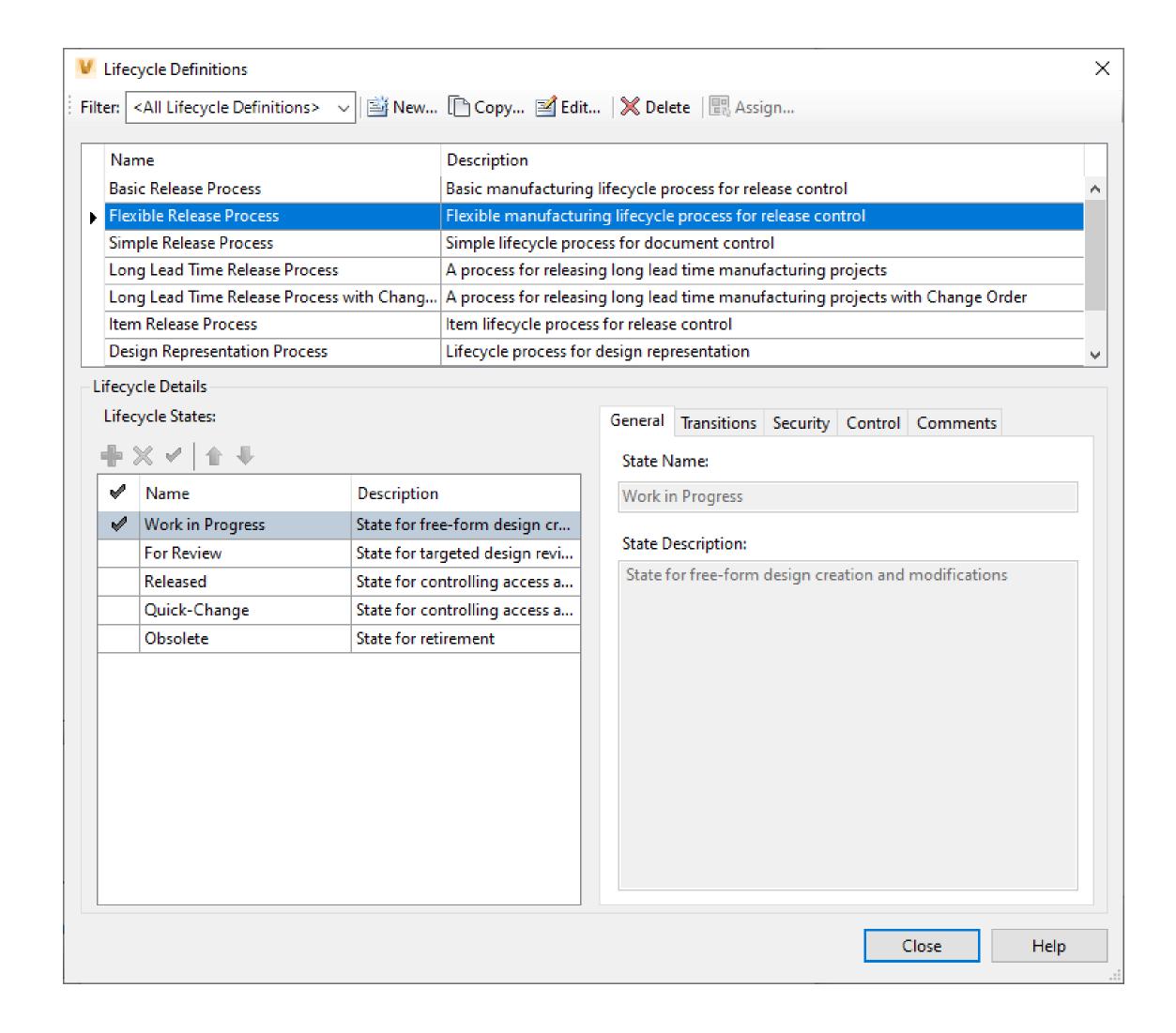


What Does the Manual Sync Create?



Now What?

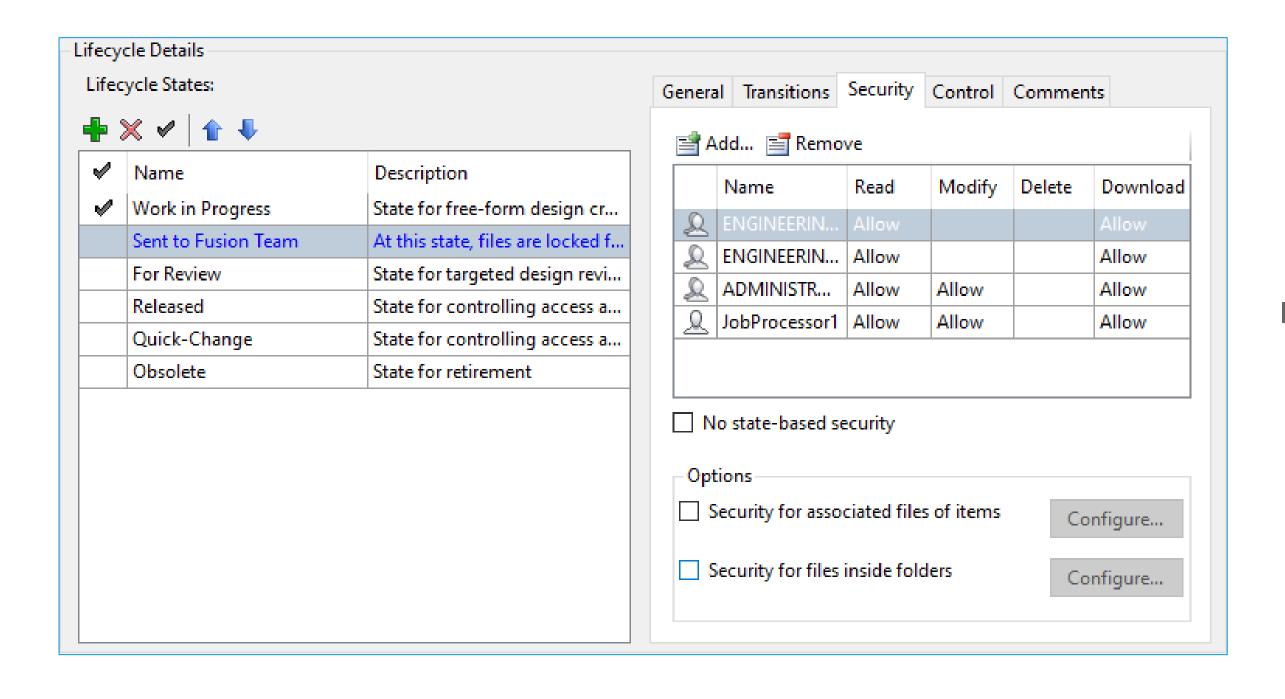
- Need to create a lifecycle to prevent Vault users from editing files being worked on in Fusion
- Will be using the Flexible Release Process as an example



Editing Lifecycle for Fusion Team

- Create a state for when files are being edited by external members
 - Out to Contractor
 - Sent to Fusion Team
- At this state, files should be locked for editing to all except administrators & the job processor

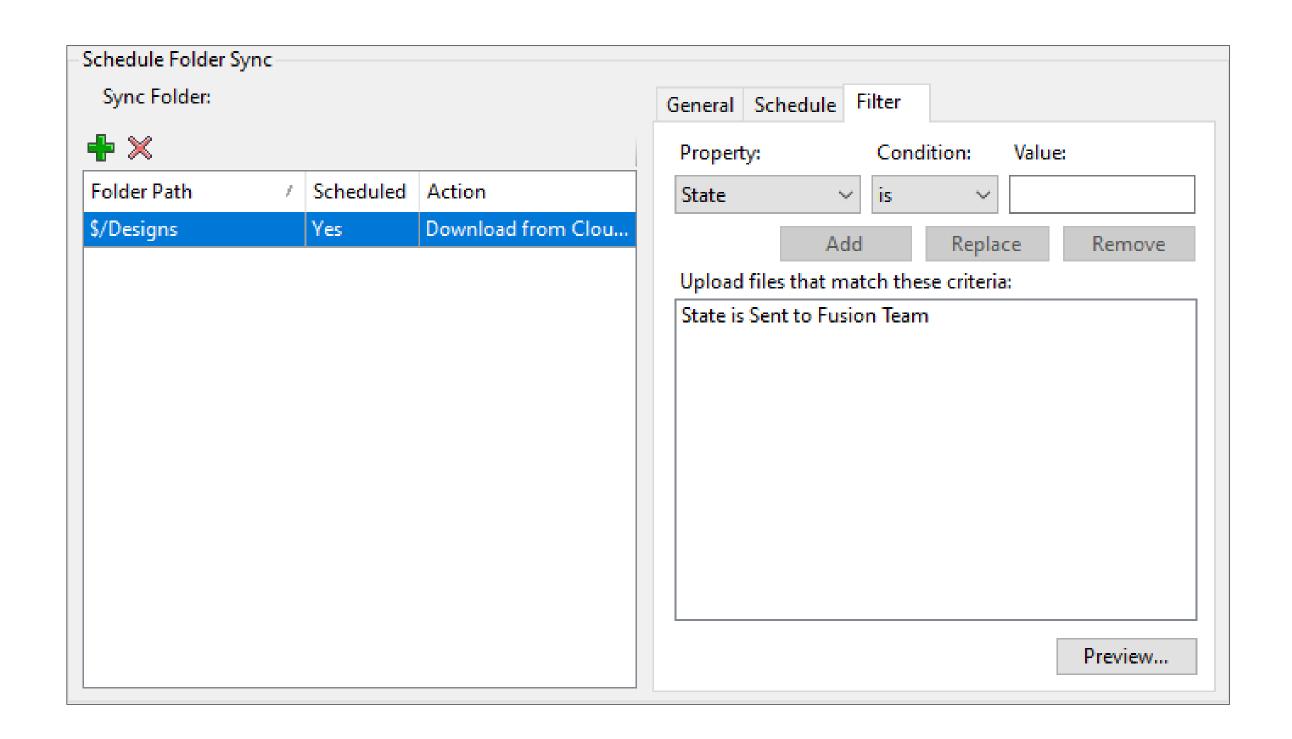
Editing Lifecycle for Fusion Team



- Engineers can read or download the files, but cannot make changes
- Slightly manual process:
 - When no longer being used by Fusion Team, users should communicate the files can be used by Vault again

Pro Tip: Filter Scheduled Sync

- Configure the cloud drive mapping to synchronize files which meet certain criteria
 - Ex: State is Sent to FusionTeam



Vault with Fusion Team Summary

- Vault can work with Fusion Team to collaborate with external or remote users
 - No VPN required
- Communication is key!
 - Need to communicate when files are OK for Vault use again
- Not a customization of Vault, just a configuration

Revisiting Class Objectives

- Can now use Fusion Team for remote data access
- Able to assist your teammates or external stakeholders with access to Fusion Team hub and projects
- Have awareness of similarities and differences between Fusion
 Team & Vault
- Can now work with Vault Professional and Fusion Team



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