Technical Dive and Talk – Vault Professional Data Beyond your Firewall

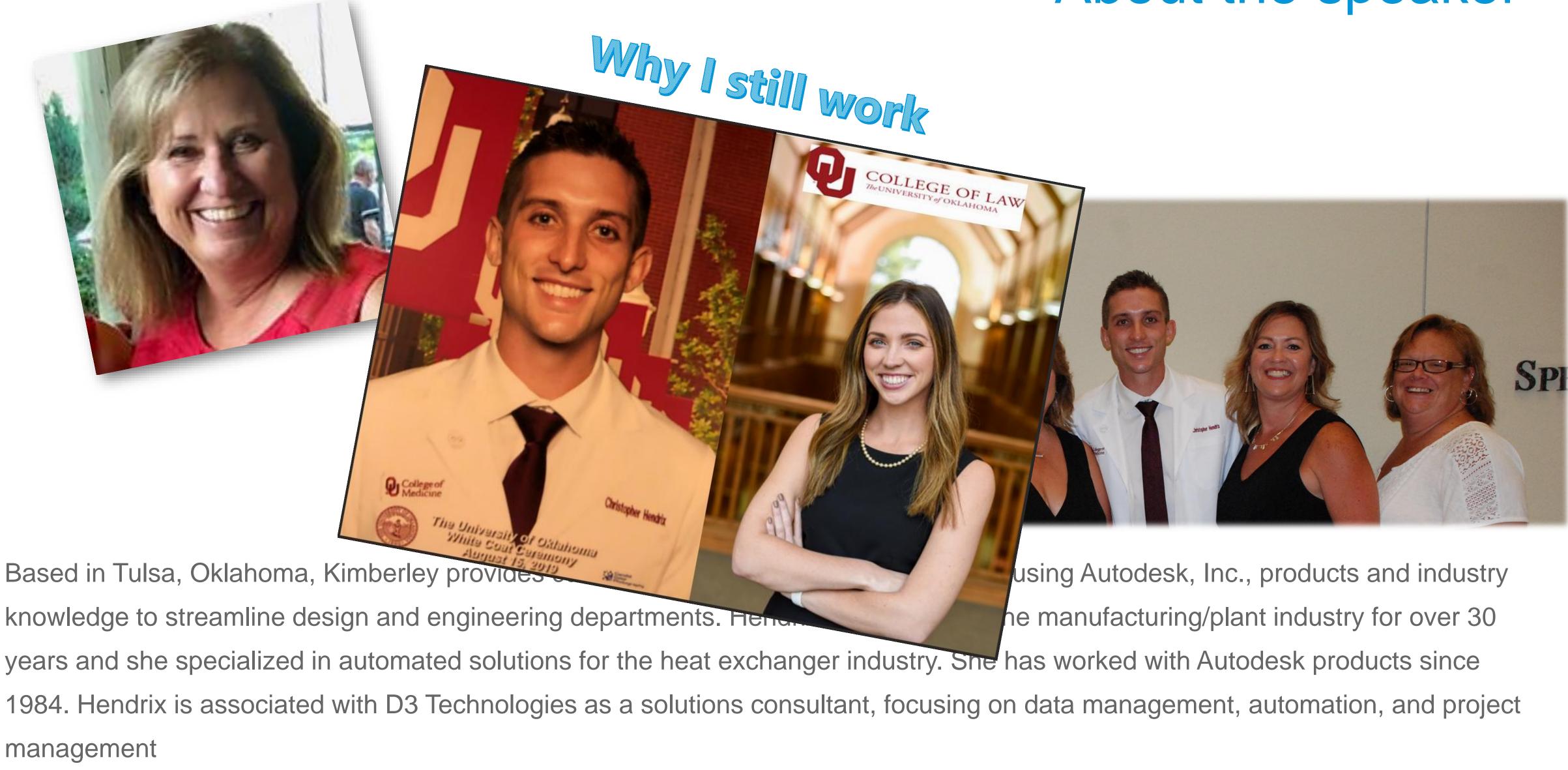
Kimberley Hendrix

Solutions Consultant, D3 Technologies



Kimberley Hendrix

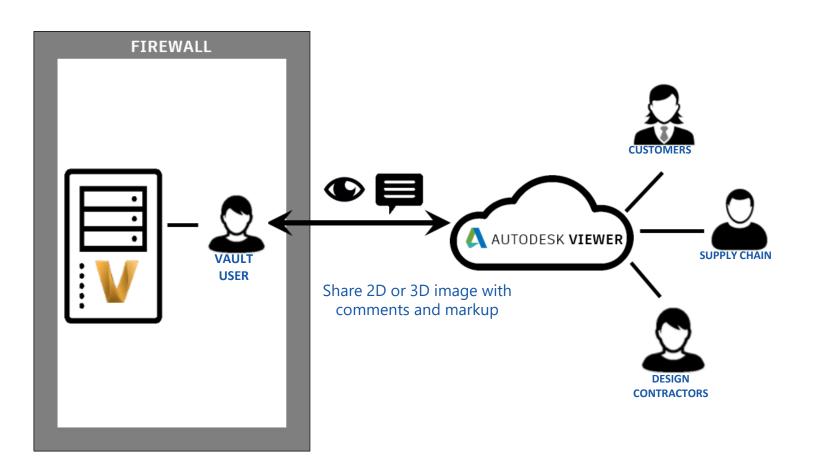
About the speaker

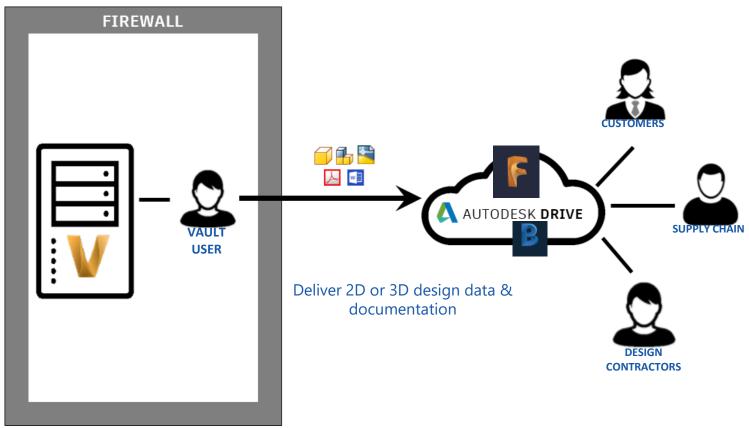


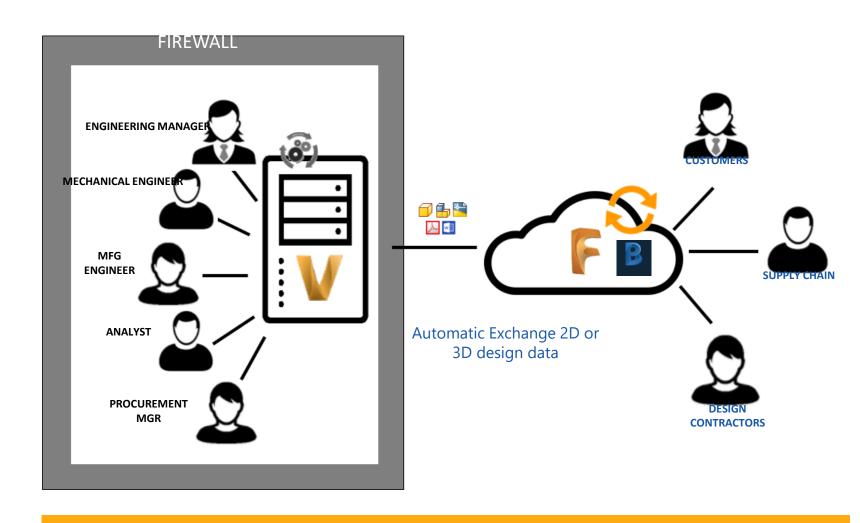
Learning Objectives

- Learn from real customer use cases as described by the customer
- Learn how to use Shared Views and see use cases
- Quick explanation of Shared Data
- Learn how to setup and configure Project Sync
- Discover how and why to use Project Sync
- Autodesk Drive, Fusion Team & BIM360

External Collaboration







Get Feedback

Share a <u>visual representation</u> and get feedback quickly and easily using Autodesk Viewer



Deliver Design Files

Deliver files to customers and suppliers using Autodesk Drive, Fusion Team or BIM360



Collaborate On Designs

Automatically exchange select data with external collaborators using Fusion team or BIM360



A Customer Use Case

Using Fusion Team and Vault to Collaborate

Let me introduce: Dan Goehler

Manager of Engineering

(Legal said I couldn't use his company name)

Tulsa, Oklahoma

Dan's company has had Vault Professional in their environment since 2013 it began with 3 Servers

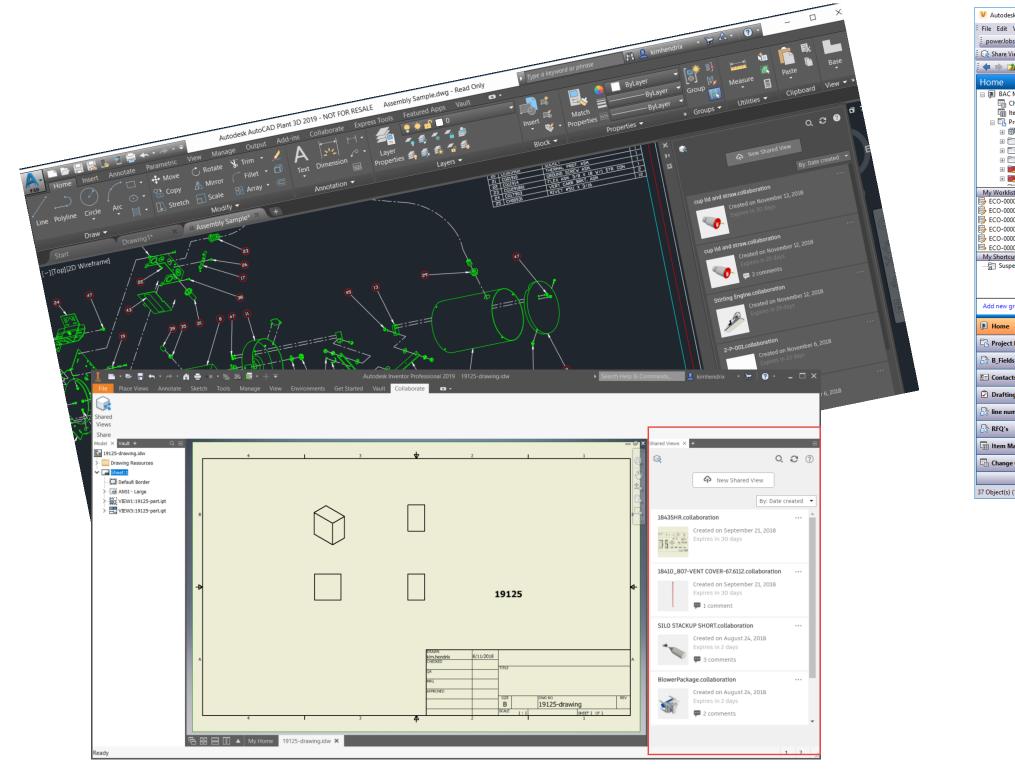
Tulsa, OK (US) – Main Server Limerick, Ireland – Secondary site with full replication India – File Store replication (ADFS)

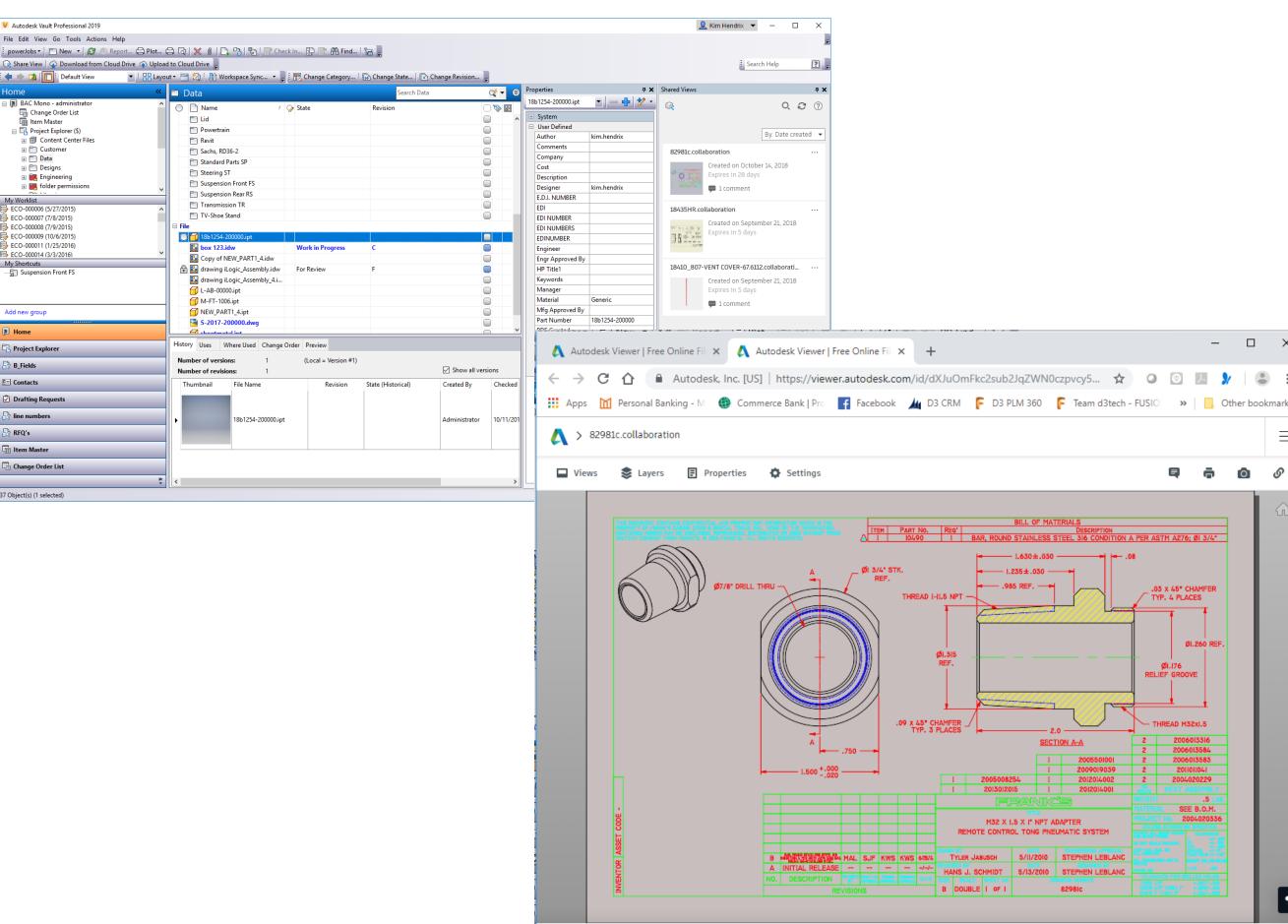
In the past 2 years, they have added Mexico & Brazil with file store replication

As the company continued to grow globally, a new technology was needed, we at D3 introduced Fusion Team's and setup to automatically publish needed information for the China & ssecondary India locations



Shared Views





Shared Views - Defined

Fast, and secure option to share rich multi-sheet 2D or 3D viewables opened on virtually any cloud-connected desktop or mobile devise via a simple web link. They avoid the need for reviewers to install anything and provide a built-in feed that makes comments visible right inside the client. Shared Views are temporary visualizations that automatically expire after a period of time.

Shared Views Use Cases

SIMPLE, FAST

Shared views is a simple way to speed up the design review cycles. Using Shared Views, design engineers can collaborate with anyone, receive comments and feedback quickly right inside Vault, AutoCAD or Inventor.

COLLABORATOR SETUP

None. That is the beauty of Shared Views, the reviewers like customers, suppliers and shop floor technicians are not required to install any software to access, view, measure, zoom and add comments on Shared Views.

PROTECTION

Because Shared Views are high quality representations of the CAD files, drawings & models, and not the actual CAD files, the actual designs or models are always protected. Even if printed, they print like an image, not like a quality drawing.

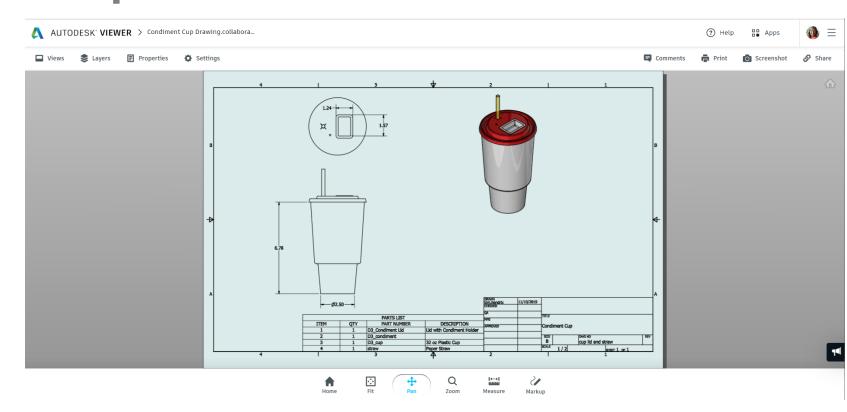
Shared Views – Live Demo

Get out your phones or tablets

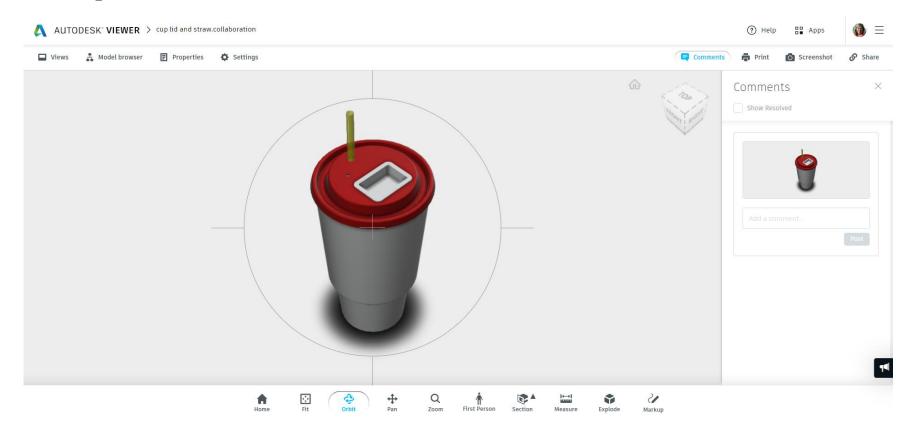




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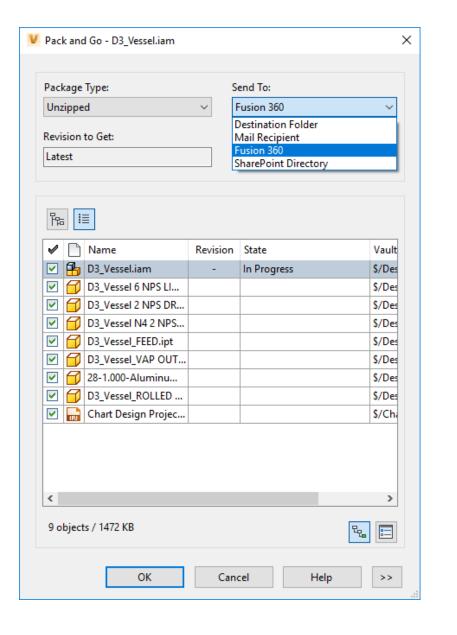
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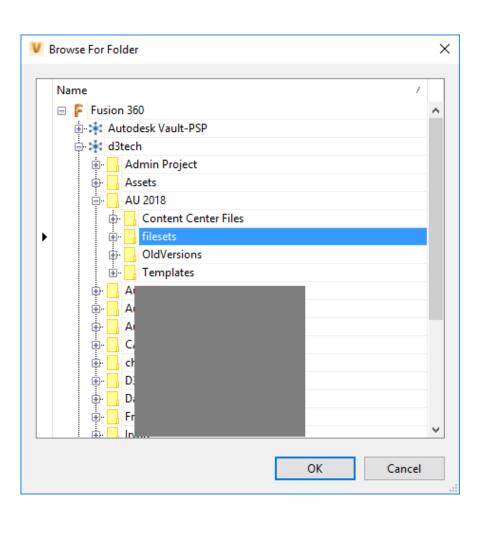


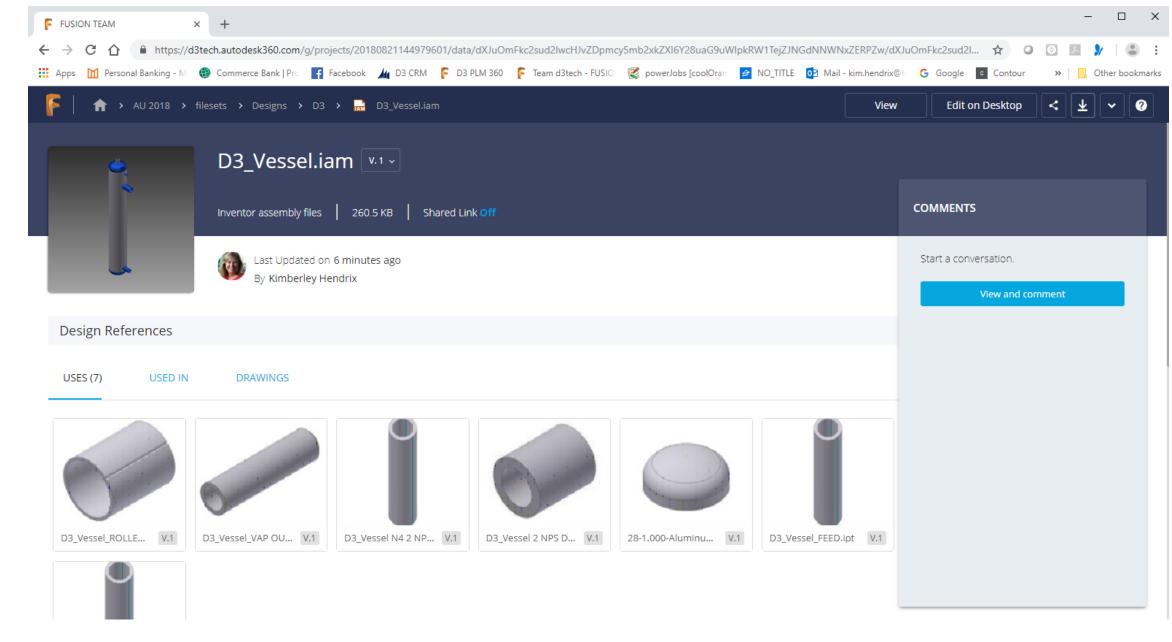
Shared Data

Shared Data - Defined

•Pack & Go capability is extended to deliver <u>native</u> data outside the firewall by integrating Autodesk Drive and Fusion Team which helps engineering team deliver the actual CAD data to external collaborators.







Shared Data Use Cases

TRACK CHANGES OR COMMENTS

Used in cases when you need a way to track and maintain the changes or comments that a collaborator makes, or when the native files are needed for modifications outside of your team. It is a little more robust than Shared Views as it allows for the actual models and drawings to be package natively and uploaded to Autodesk Drive or Fusion Team.

COLLABORATOR

Collaborators can then look at and make comments in the cloud or download the native files to modify and upload. This does not automatically update the files in your Vault but does allow for you to retrieve, review and decide what to re-load.

WHEN TO USE

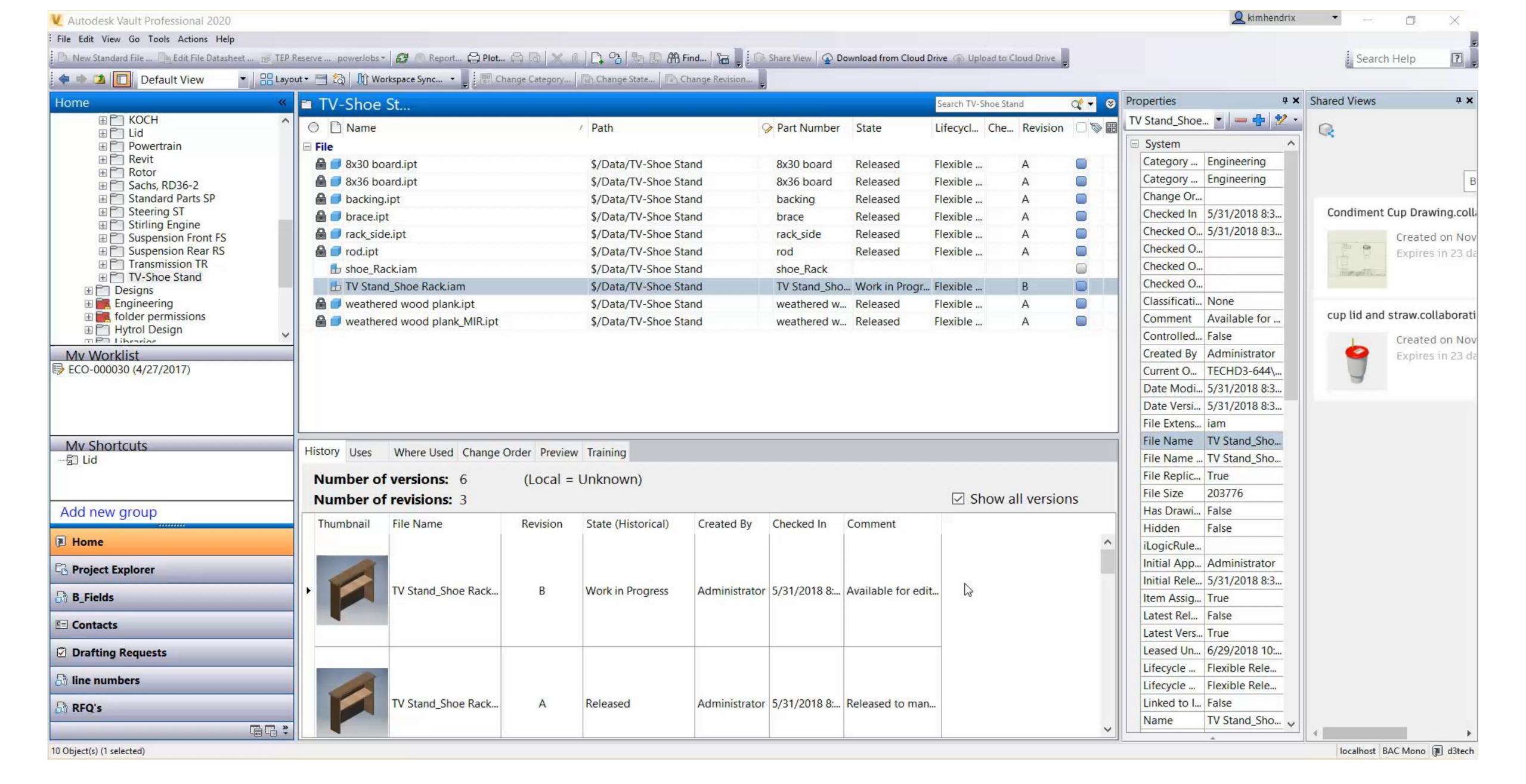
External Collaborator can now access the design data through Autodesk Drive or Fusion Team user interface and view models instantly. They can also review designs in real time, check the Version of the file, Design References, Uses, Used In, Drawings tabs and download for downstream manufacturing workflows or archive processes.

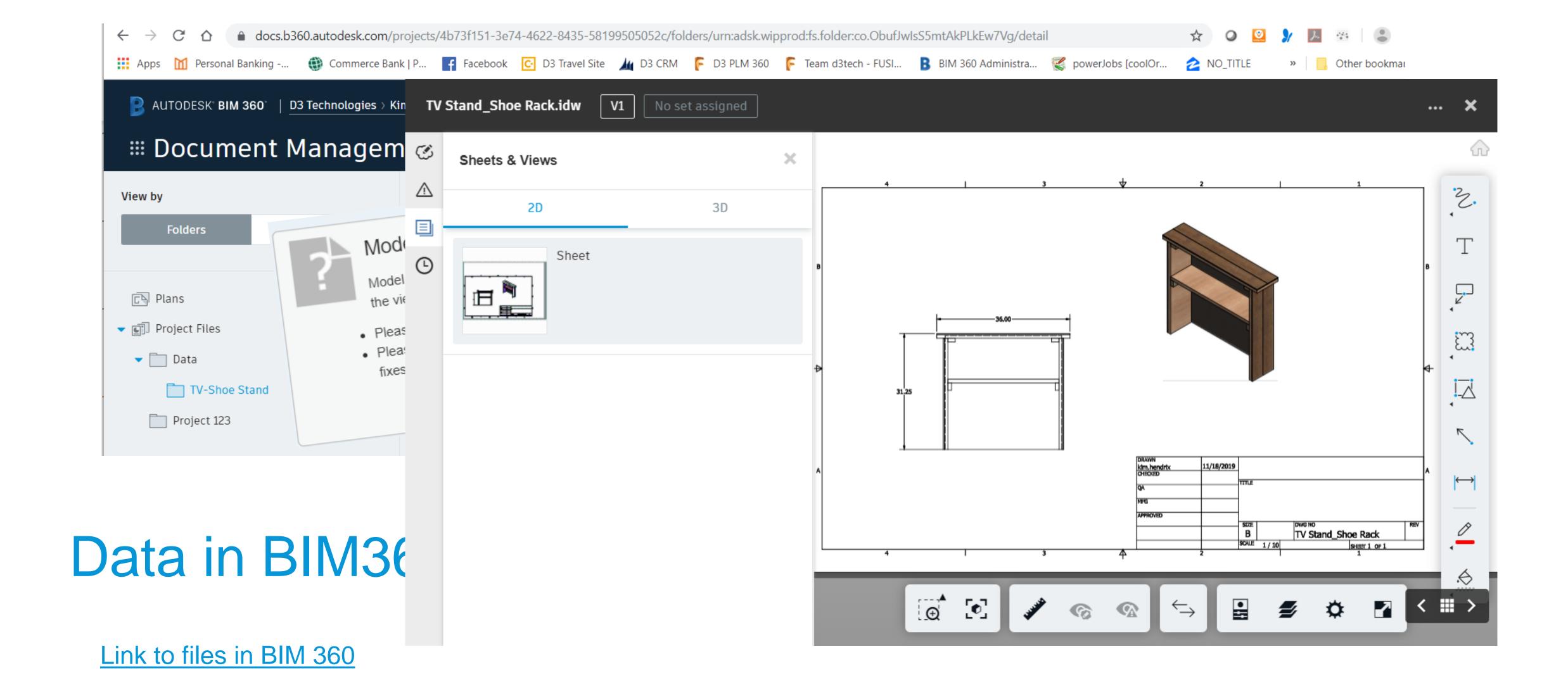
If they are changes in Vault on the design e.g. a new revision is created, the design engineer simply selects the same assembly and does the Pack & Go command. Vault will Update the Design data in Fusion Team or Drive and creates a new iteration of the design.

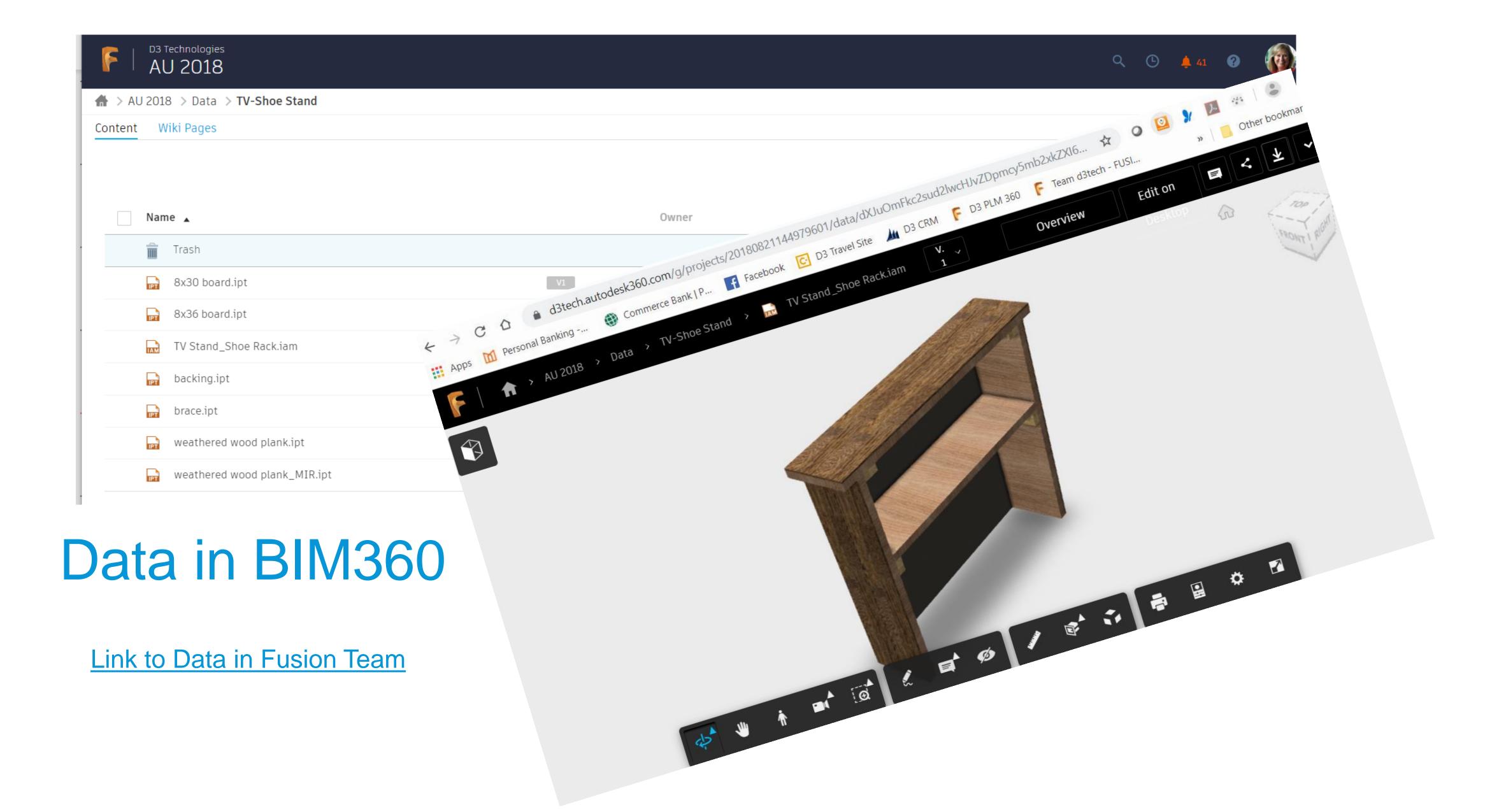
Shared Data Demo

LIVE DEMO
\$\Data\TV-Shoe_Stand

Video for future use on next slide



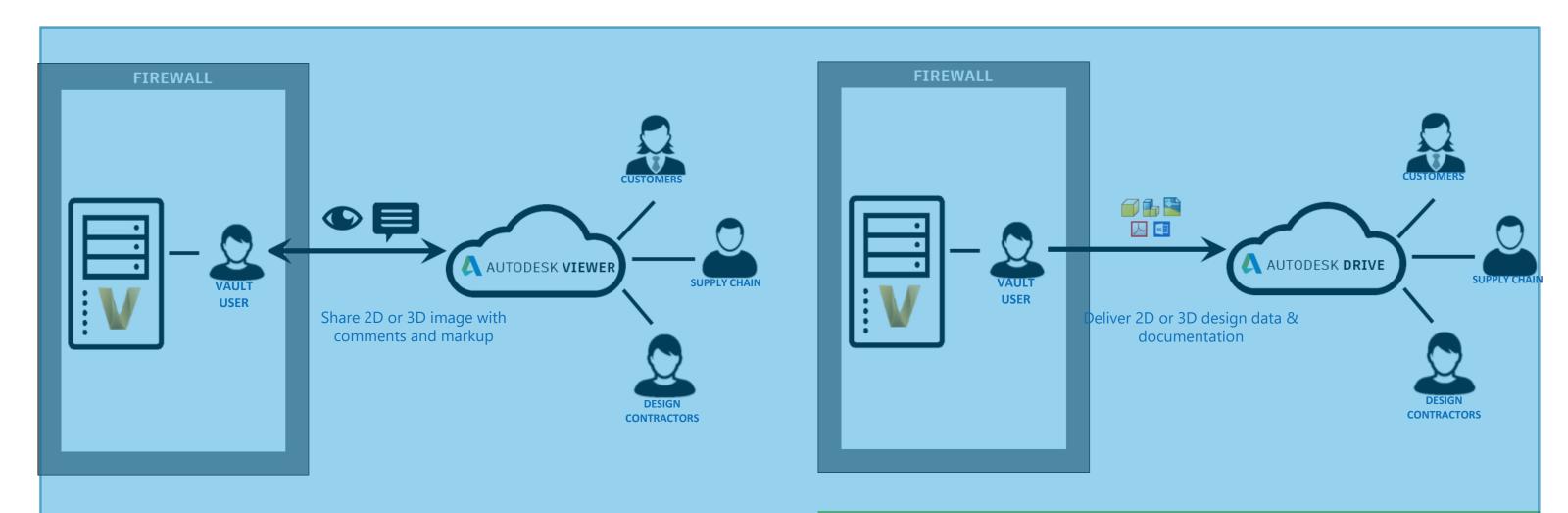




Shared Data Issues, thoughts

- If you are using Inventor Assemblies the parent child relationship is not respected in BIM 360
- Fusion Team does respect parent child for Inventor

External Collaboration

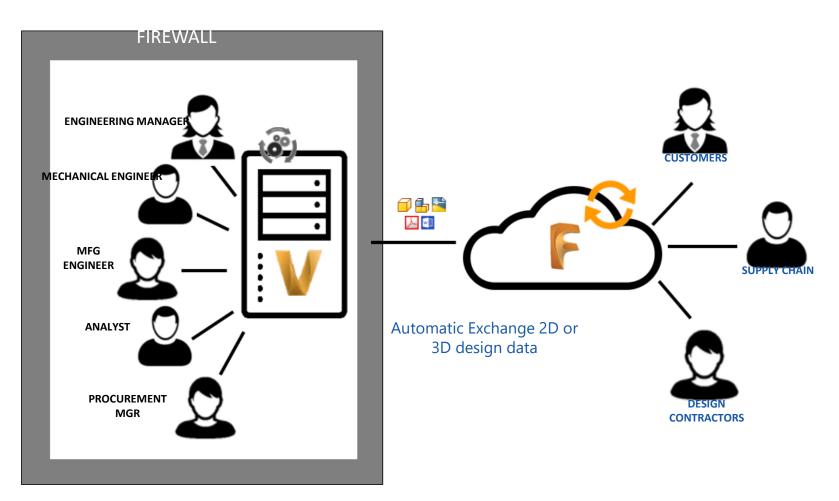


Get Feedback

Share a <u>visual representation</u> and get feedback quickly and easily using Autodesk Viewer

Deliver Design Files

Deliver files to customers and suppliers using Autodesk Drive



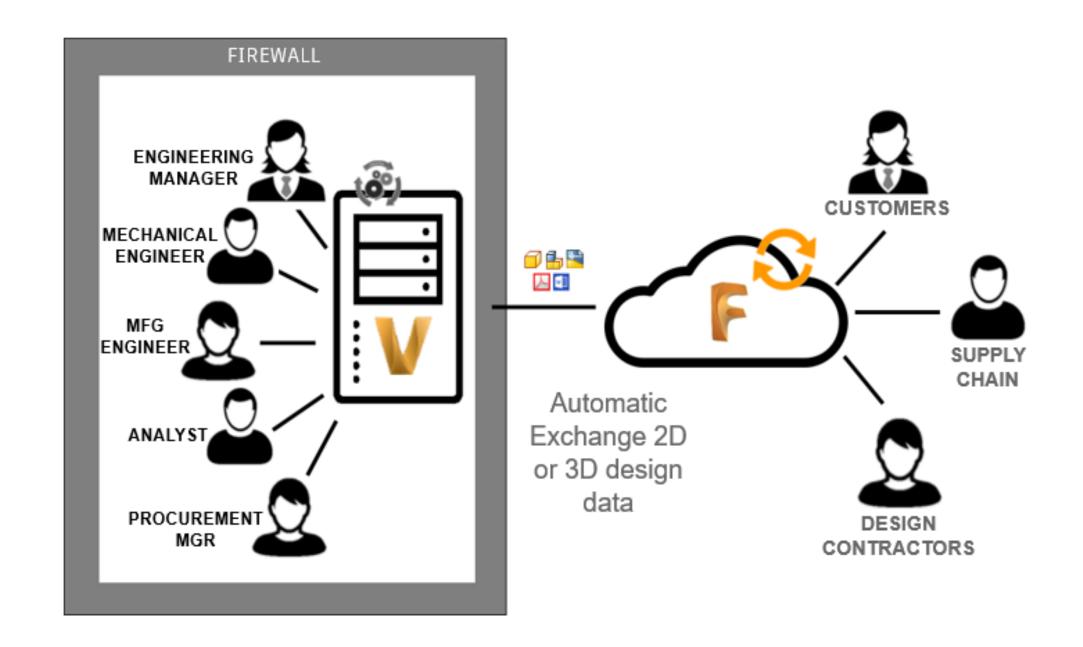
Collaborate On Designs

<u>Automatically</u> exchange select data with external collaborators using Fusion team

Project Sync

Project Sync-Defined

- The Project Sync feature provides file and folder synchronization between Vault and supported Autodesk cloud drives
- This capability enables Vault users to either automatically or manually synchronize files from a folder in Vault with a folder in a cloud drive. The synchronization can be configured to work in either direction or both directions providing simple and reliable two-way communications between project team members.



Collaboration on Designs – Challenges

Design Engineers need an easy and triggered way to share project related up-to-date released design files with their outside suppliers or customers for consumption. This is required to be triggered and not based on the user interaction.

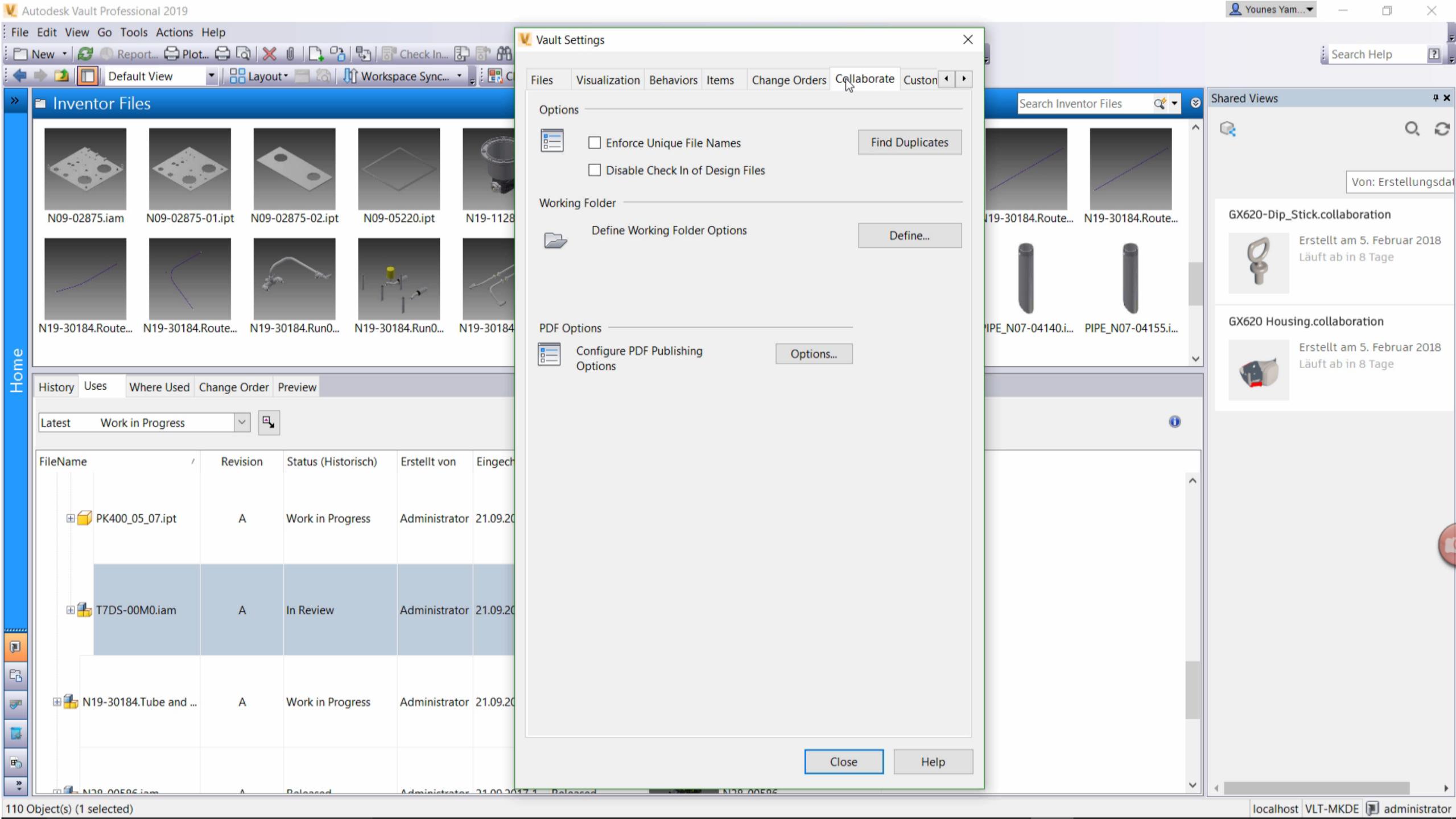




- User would like to outsource some CAD files and their references to another company so that they can clean up the assemblies, create the drawings and get them back to Vault without any loss of CAD references. This enables round trip design work.
- ➤ The last use case is when a customer would like to contract external firms with **design tasks for sub assembly** due to time constraints, leveraging available **up-to-date templates and standard components** managed in Vault

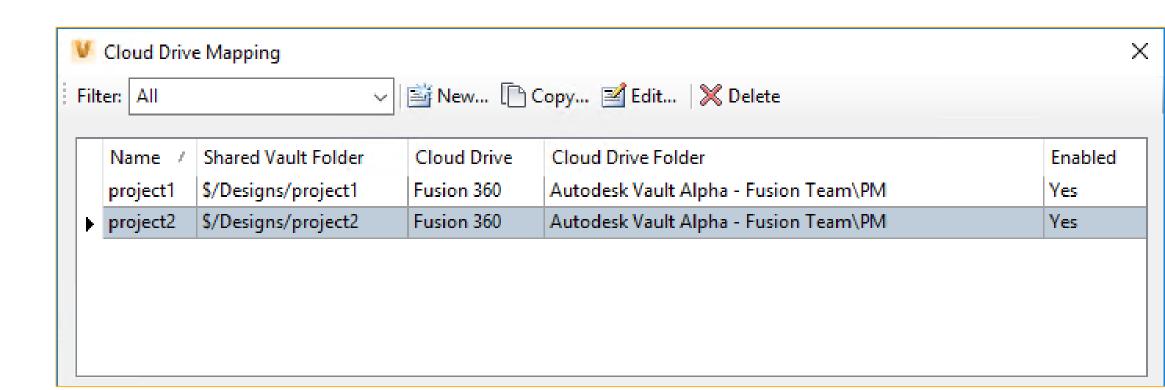


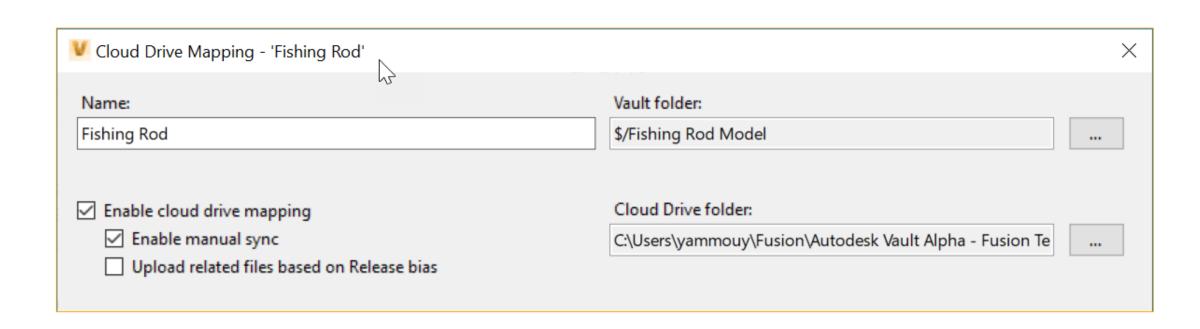
Project Sync Demo



Selectively Exchange of CAD documents

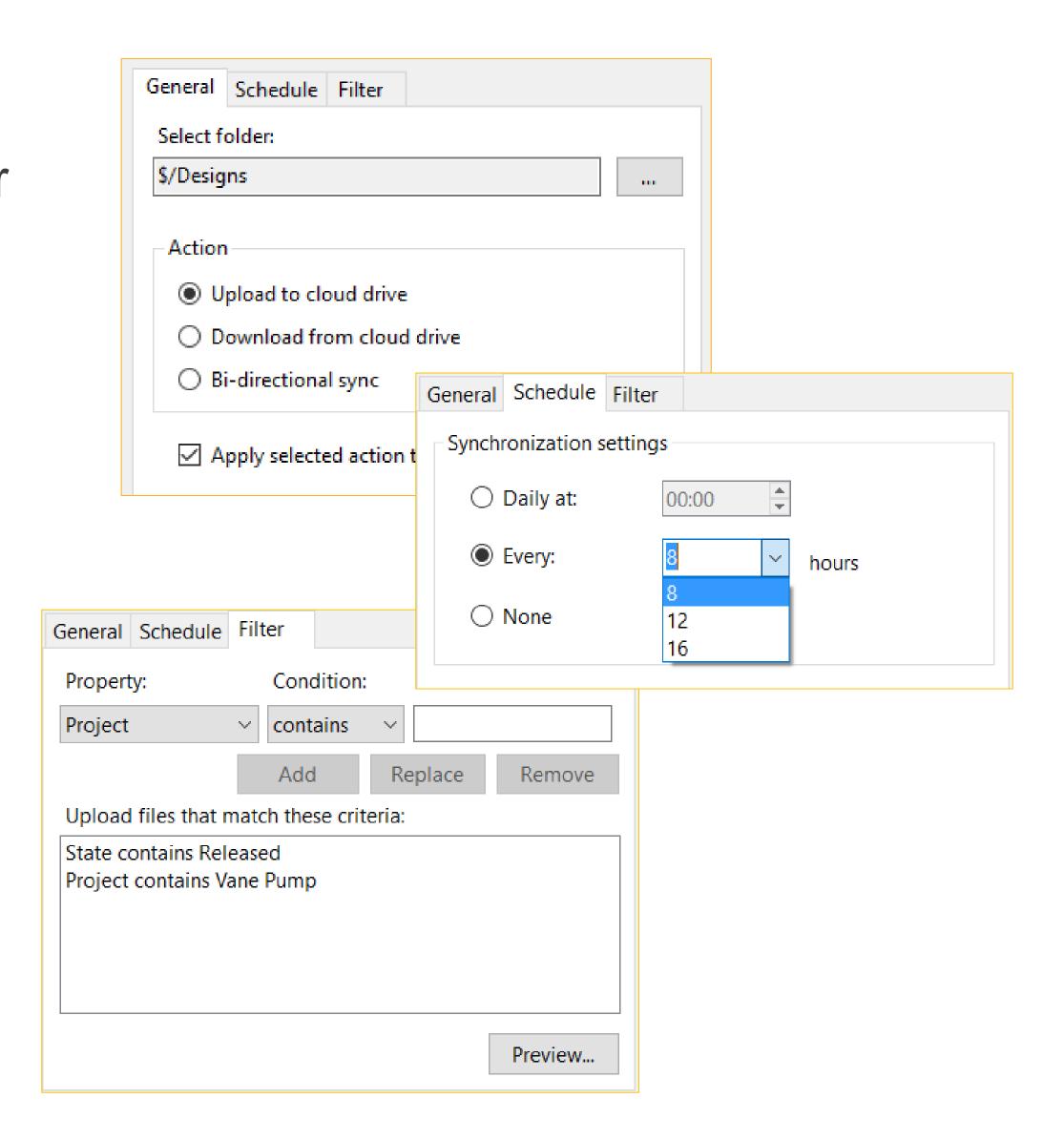
- Cloud Drive Mapping delivers the flexibility to exchange with each collaborator the relevant projects design data
- "Enable Manual Sync" option to trigger sync based on processes
- CAD aware and Upload related files based on Release bias
- Collect all project links supports customers to exchange project relevant design data independent from where the files reside
- Disable Cloud drive mapping after project completion





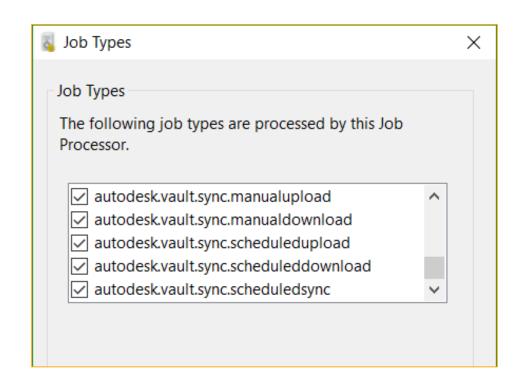
Selectively Exchange of CAD documents

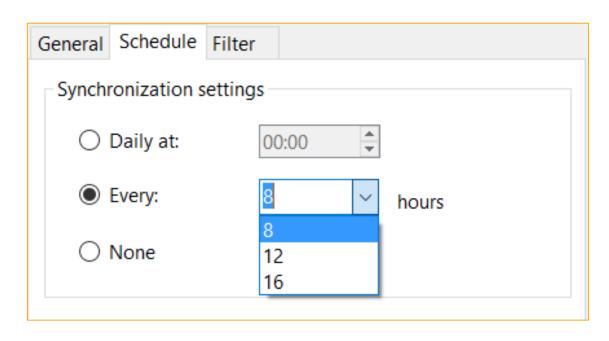
- Synchronization can work in either direction or both directions
 - Option to apply to subfolders
- Scheduled Exchange based on interval or daily time
- Filter capabilities helps administrator make sure collaborator has access only to the subset of project data he needs for his tasks

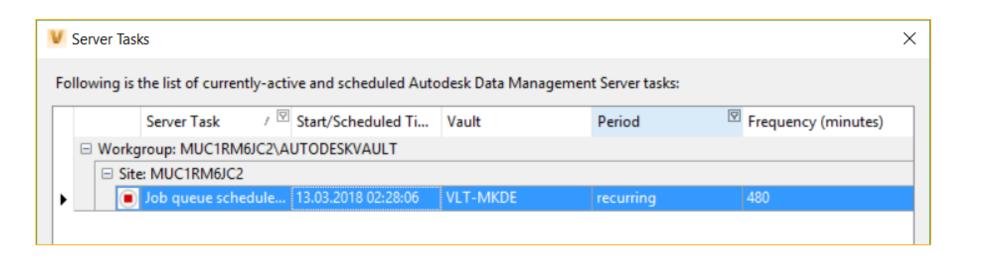


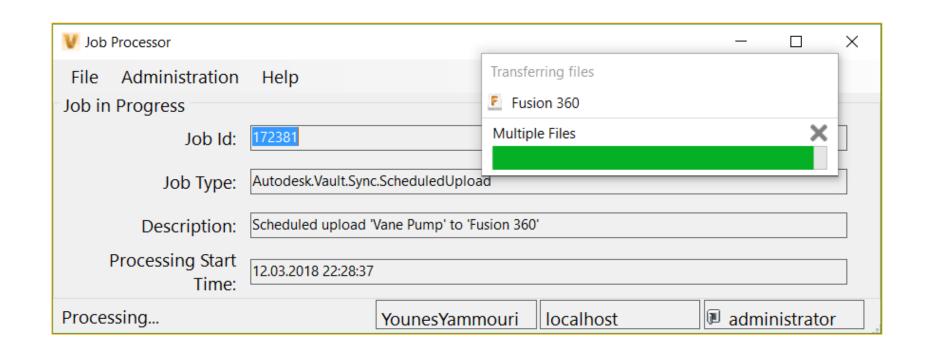
Selectively Exchange of CAD documents

- 5 new 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 machine to configure the mapping









Autodesk Drive Fusion Team BIM 360



Differences

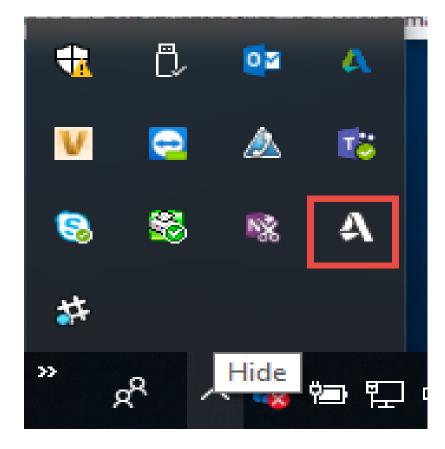
- BIM 360 Docs
 - Customer base in the AEC
 - Is required when you use Collaboration for Revit (BIM 360 Build)
 - Now needs a license for project contributors
- Fusion Team
 - Customer base in MFG
 - Can be used for working in Fusion 360
 - Is required for Fusion 360 <> Inventor AnyCAD workflows.
- Autodesk Drive
 - Personal space

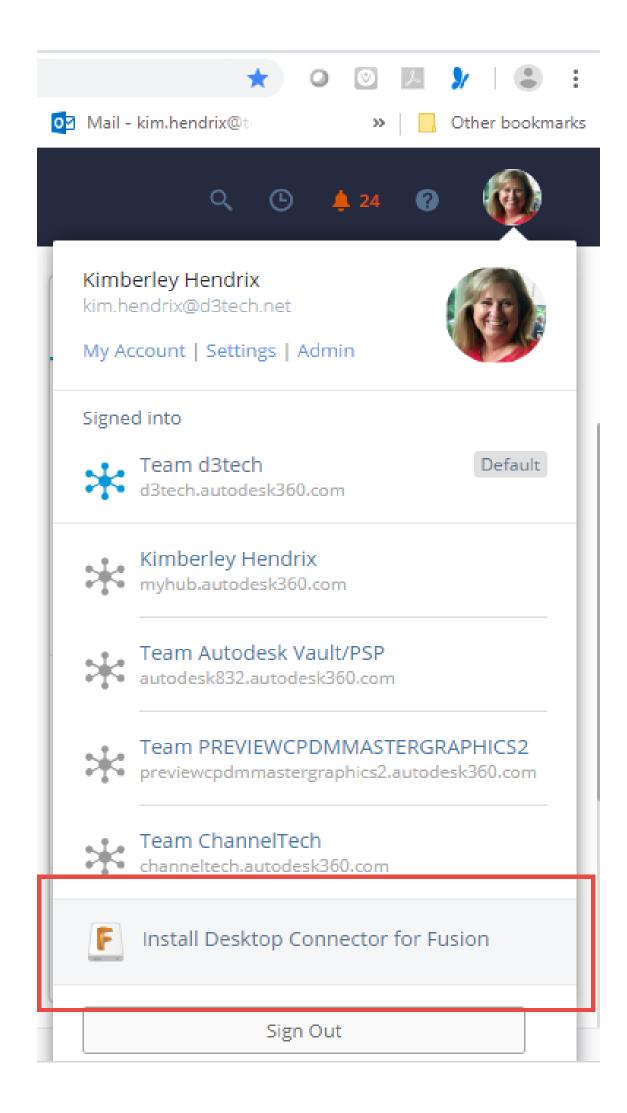
All 3 can be published to via the Autodesk Desktop Connector, manually, or via Vault Sync tools

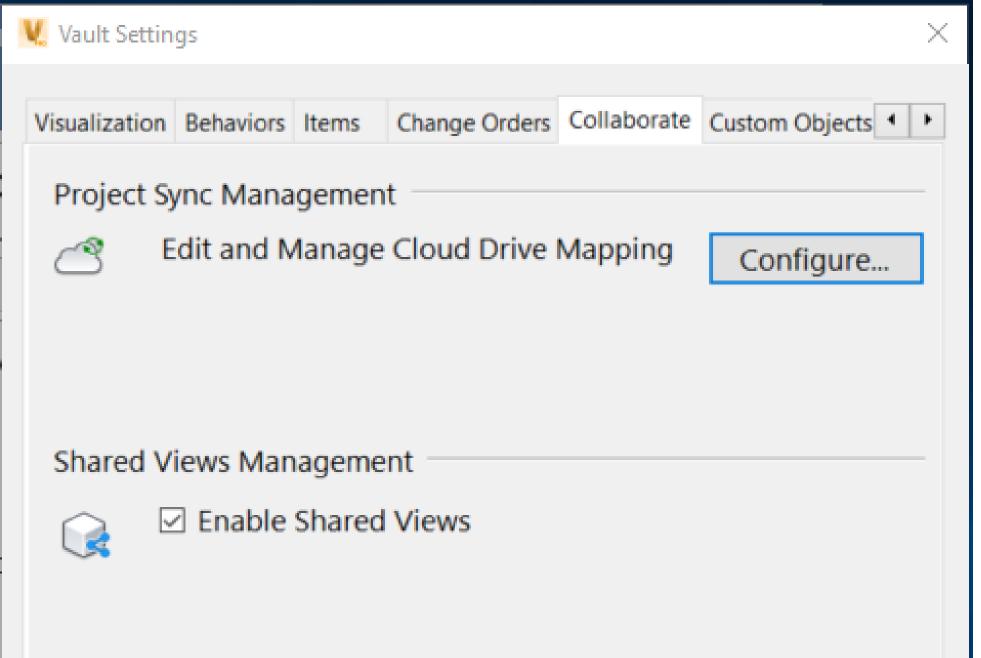
Configuration

Autodesk Desktop Connector

- Is required to sync files using Shared Views or Project Sync. It can be downloaded from Autodesk and runs in the system tray
- https://www.autodesk.com/vignette-connect-toast-enu.
- It can also be installed from your Fusion Team page as shown



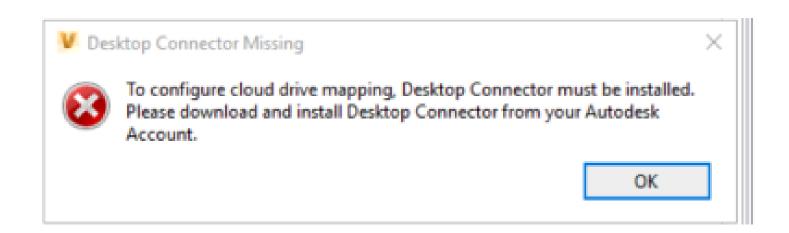




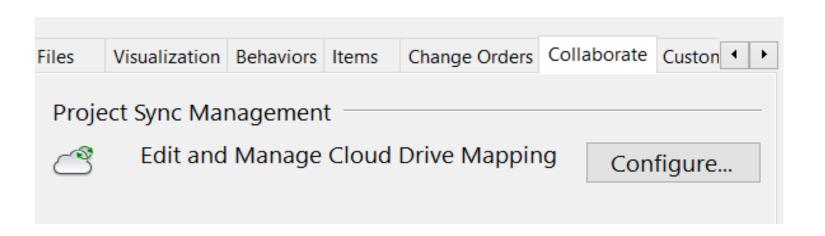
Collaboration Settings

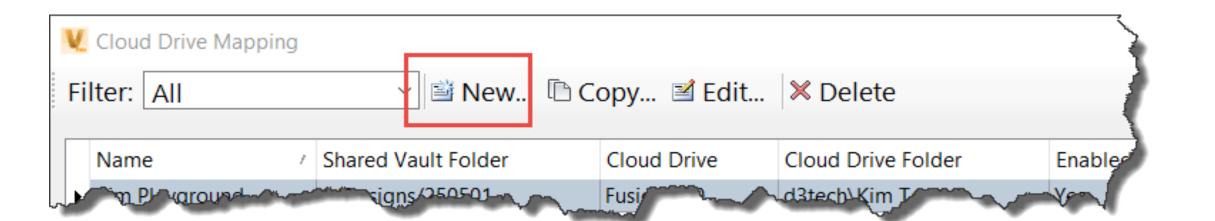
- From the Vault Client select
- Tools > Administration > Vault Settings > Collaborate (tab)
- Enable Shared Views with the check box
- Select the Configure button to map Cloud Drives

Mapping Cloud Drives

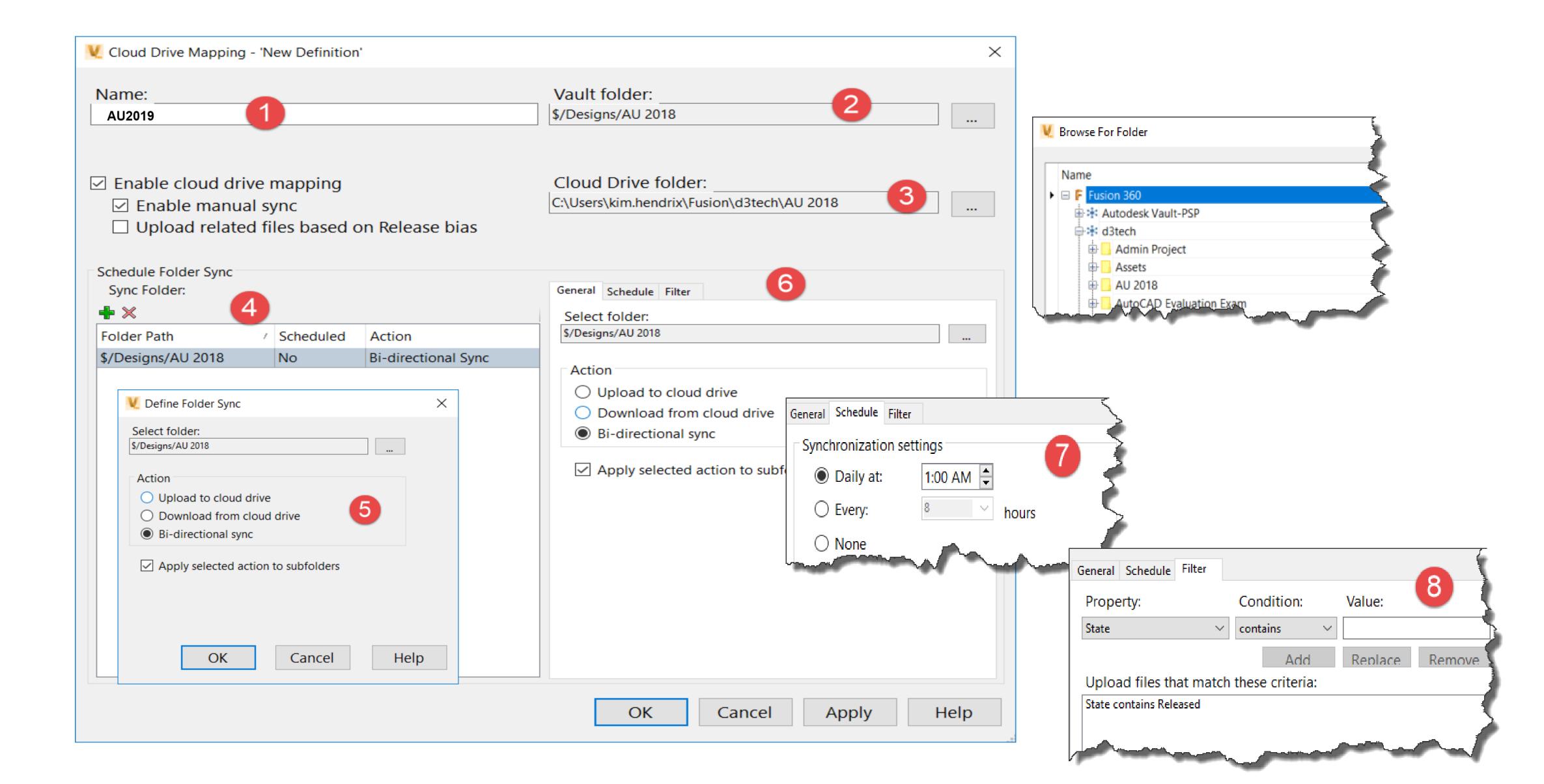


Autodesk Desktop Connector must be installed to configure mappings





Mapping Cloud Drives





15 minutes for a chance at some Autodesk Bling and a \$200 Amazon gift card?



Take the Data

Management/Collaboration Survey

Just follow this link!

https://www.surveymonkey.com/r/AU 2019CollabSurvey

Don't forget to include your name and contact information for a chance to win**



Drawing will be held at 2:00 PT on Thursday, November 21st **Must pick up prize in person (more info in the survey)

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