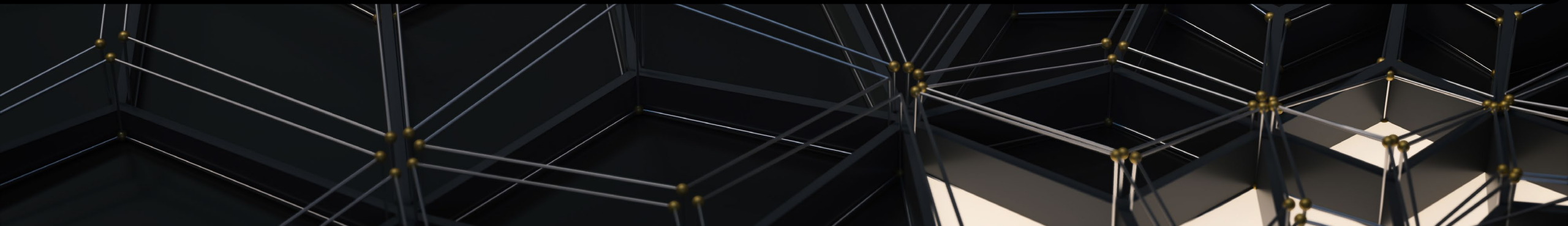
What’s New in Vault 2027



Workflow efficiency

Reducing friction and eliminating unnecessary steps in everyday work

Collaboration

Making it easier for more people to review, understand, and act on engineering data

Connectivity

Connecting Vault seamlessly with downstream systems and cloud services

- Workflow efficiency

- Reducing friction and eliminating unnecessary steps in everyday work

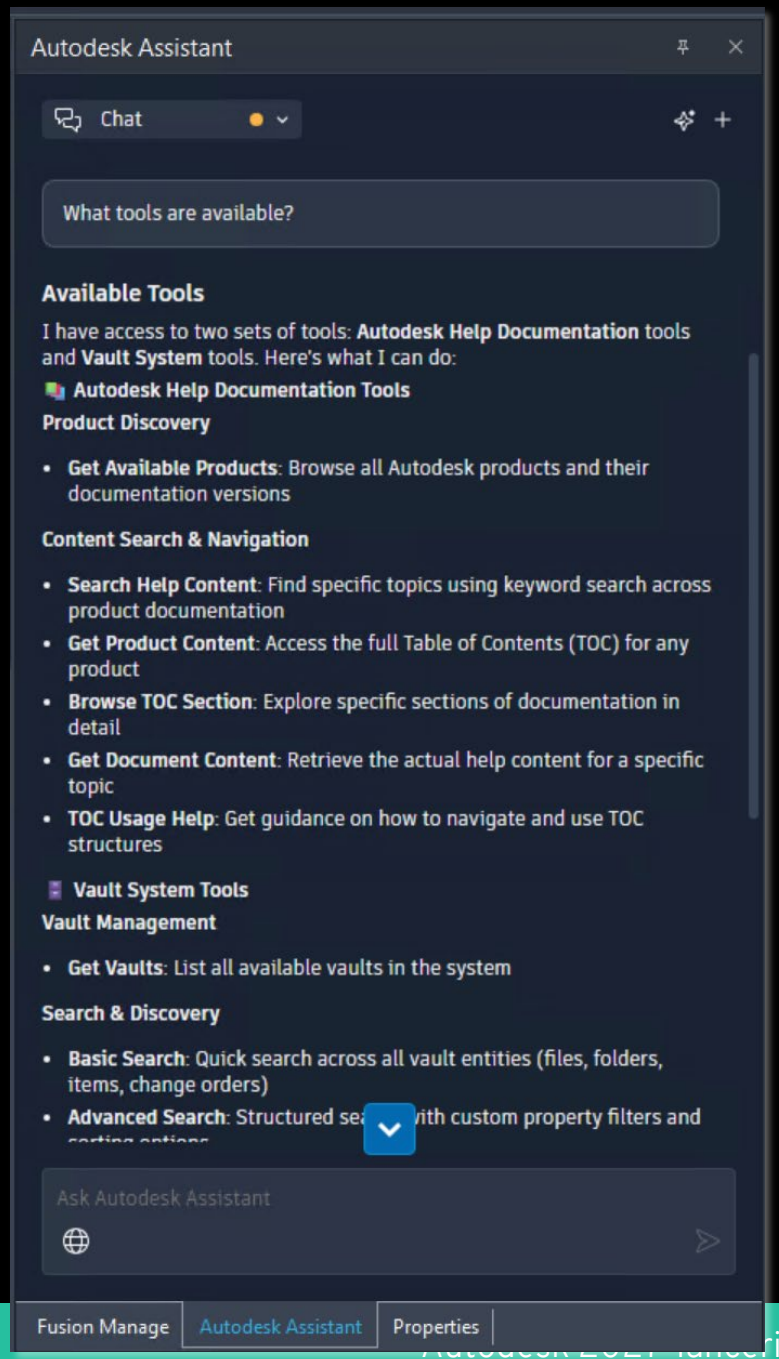
- Image courtesy of [Name]

ASSISTANT

Introducing Autodesk Assistant for Vault, an AI-powered assistant built directly into the Vault product. This revolutionary feature brings artificial intelligence capabilities to your data management workflow, enabling you to work smarter and more efficiently.

Key capabilities include:

- Natural language search and data discovery
- Intelligent help and guidance
- Automated tasks
- Project and data insights



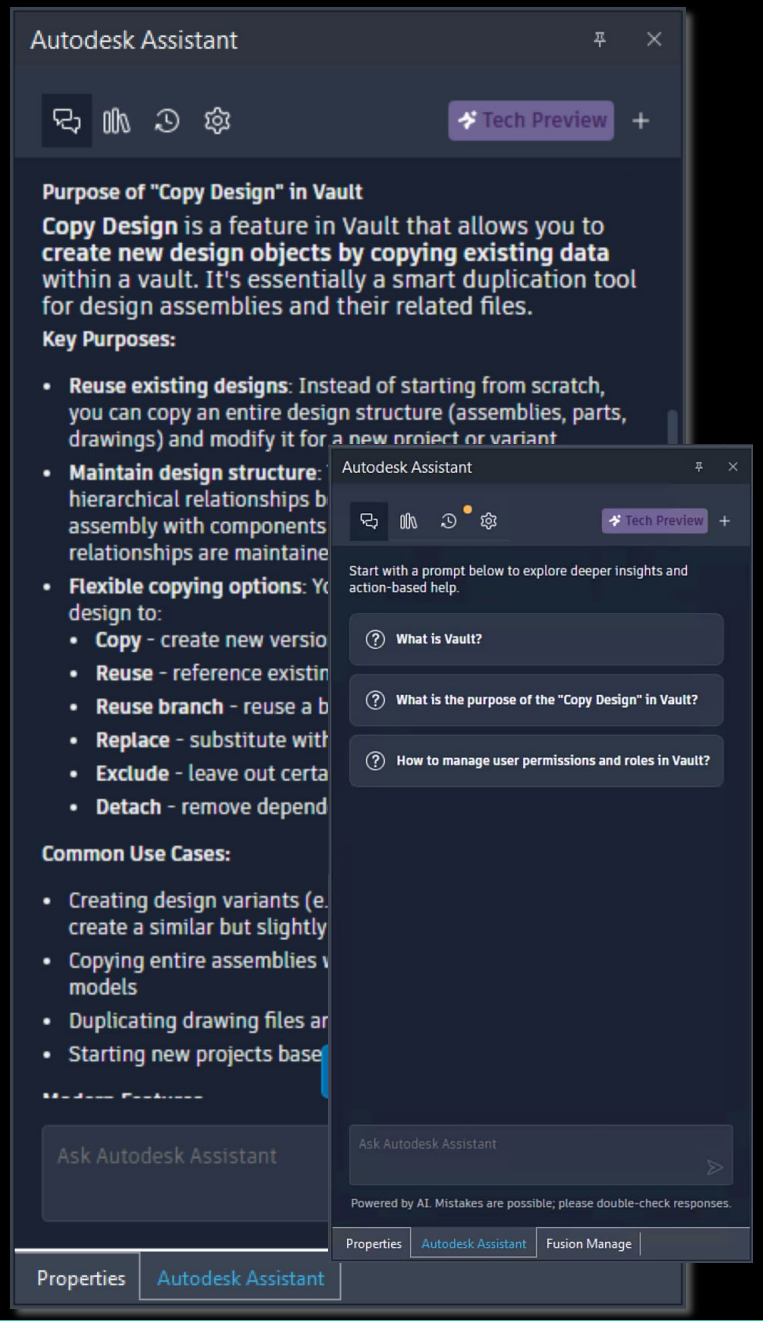
ASSISTANT

Intelligent Help and Guidance

Autodesk Assistant can guide users through workflows and new features.

Prompt examples:

- "What are the steps to a lifecycle state change?"
- "How do I use Copy Design in Vault?"
- “How do I manage user permissions?"

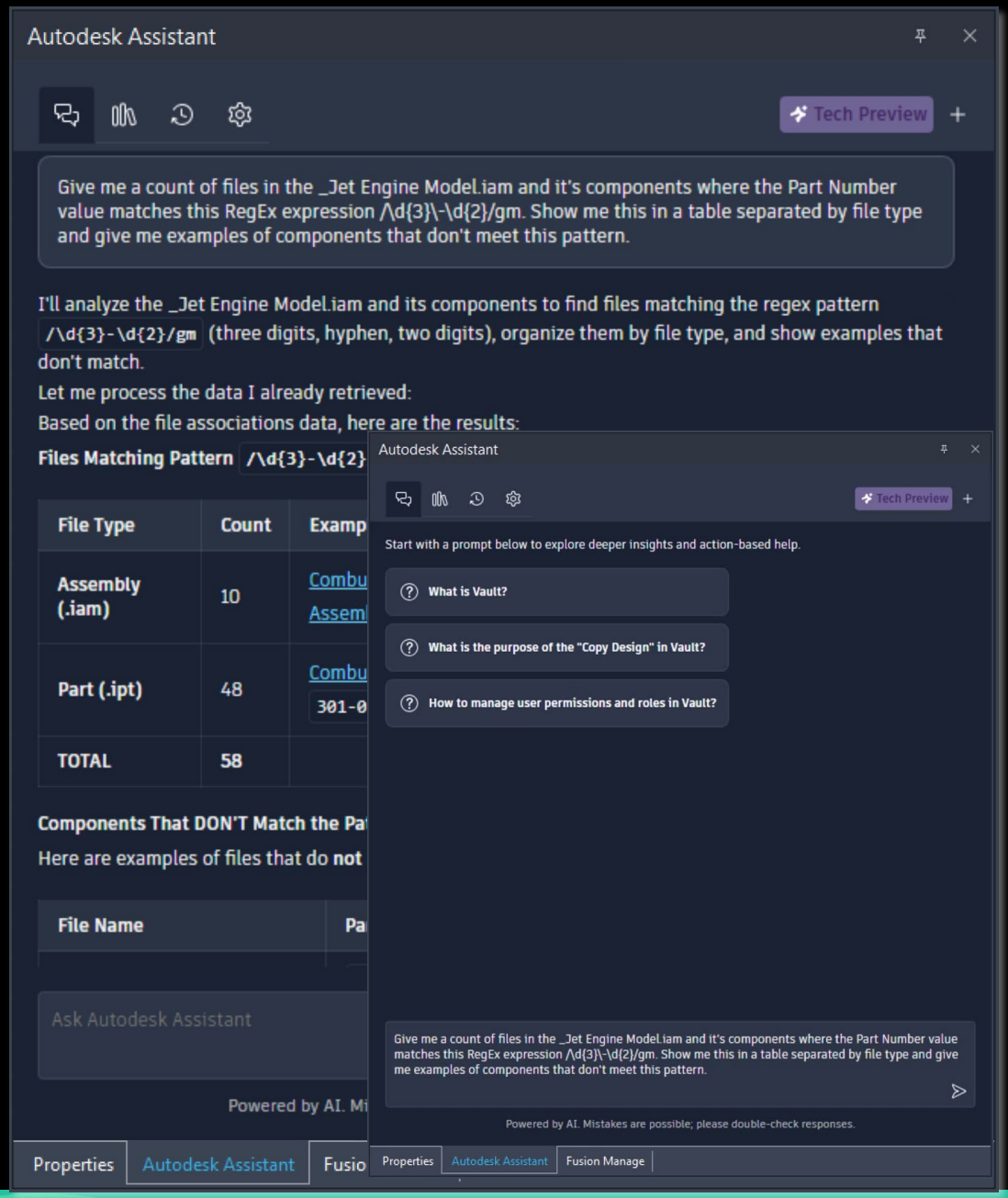


ASSISTANT

Autodesk Assistant can help users find important files and report on information in those files.

Prompt examples:

- "Find all files containing 'bracket' in the name."
- "Give me a count of files in the _Jet Engine Model.iam and it's components where the Part Number value matches this RegEx expression /\d{3}\-\d{2}/gm."
- "Show me outdated drawings in the Current Projects folder."
- "Are there any drawings that need to be updated?"

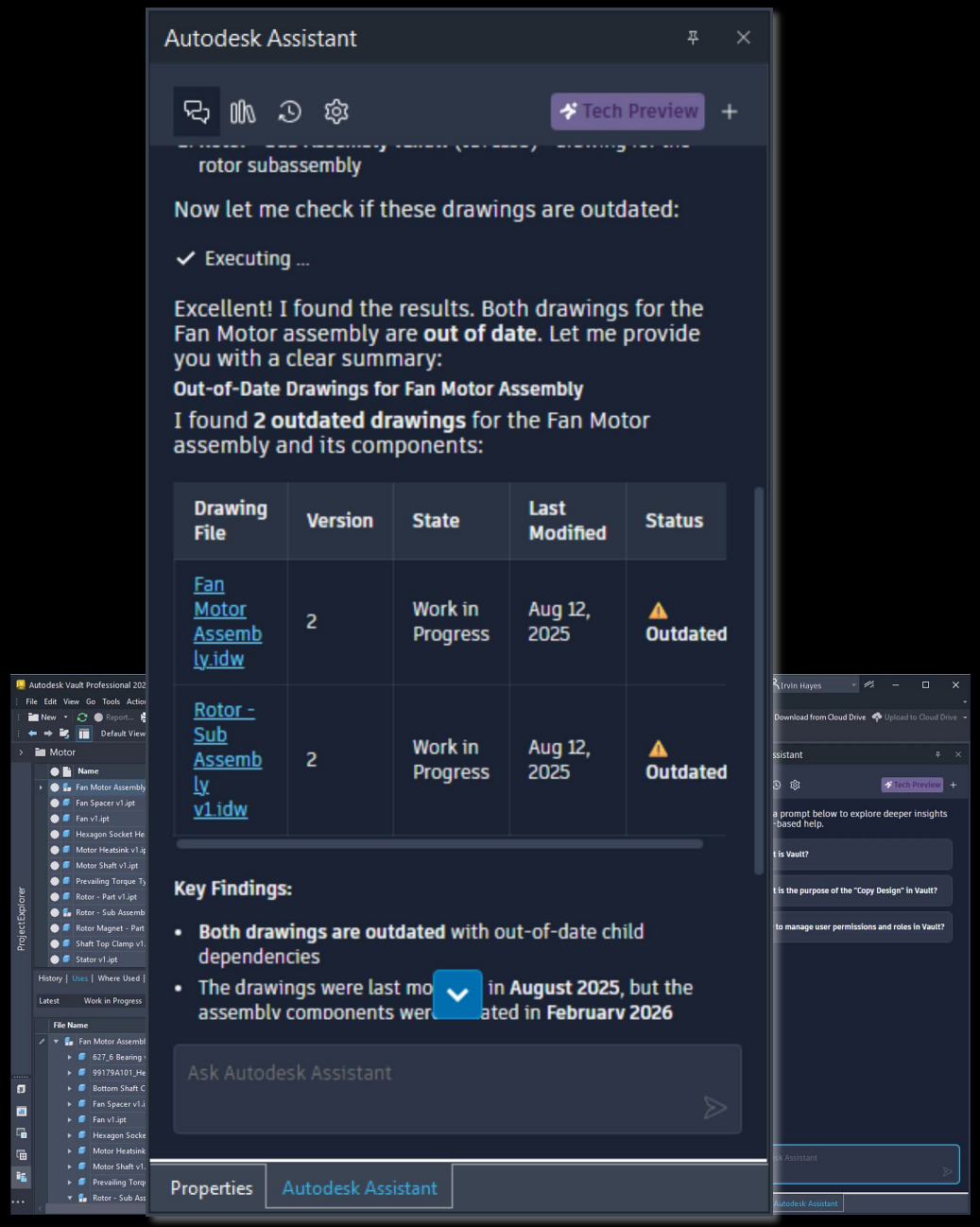


ASSISTANT

Autodesk Assistant can automate tasks without UI.

Prompt examples:

- File Operations
  - “Update all outdated drawings in this project.”
- Item Operations
  - “Create Items for the Motor.iam and associated files.”
  - “Synchronize the Motor assembly Item to Fusion Manage.”

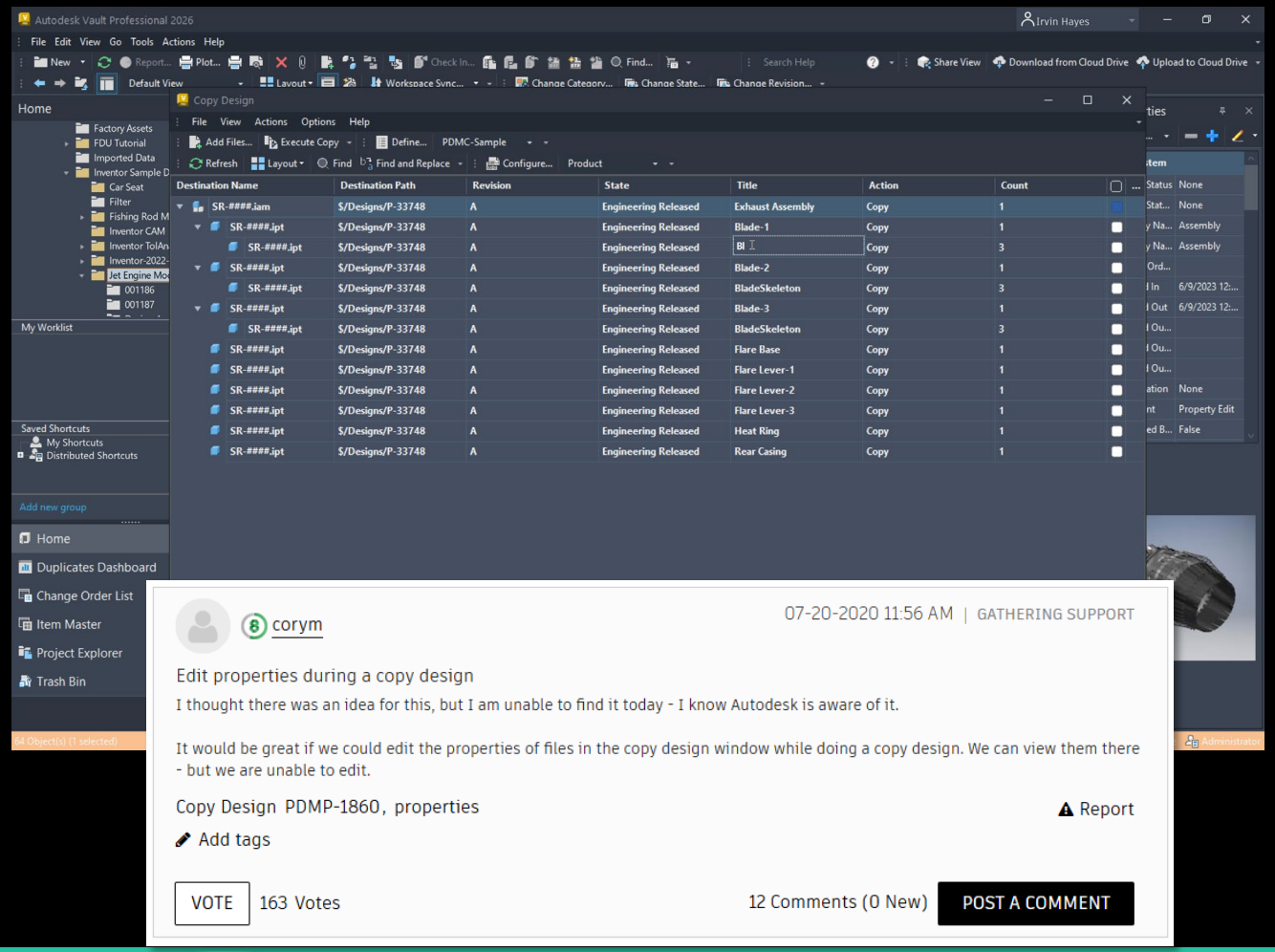


Challenges

The copy design process allows users to start a new design from an existing design. Property updates are done later and may be missed during this essential task.

Capabilities

- Enable the capability to edit specific properties during the Copy Design process
- Edit multiple properties at once using copy/paste in the dialog or from Excel

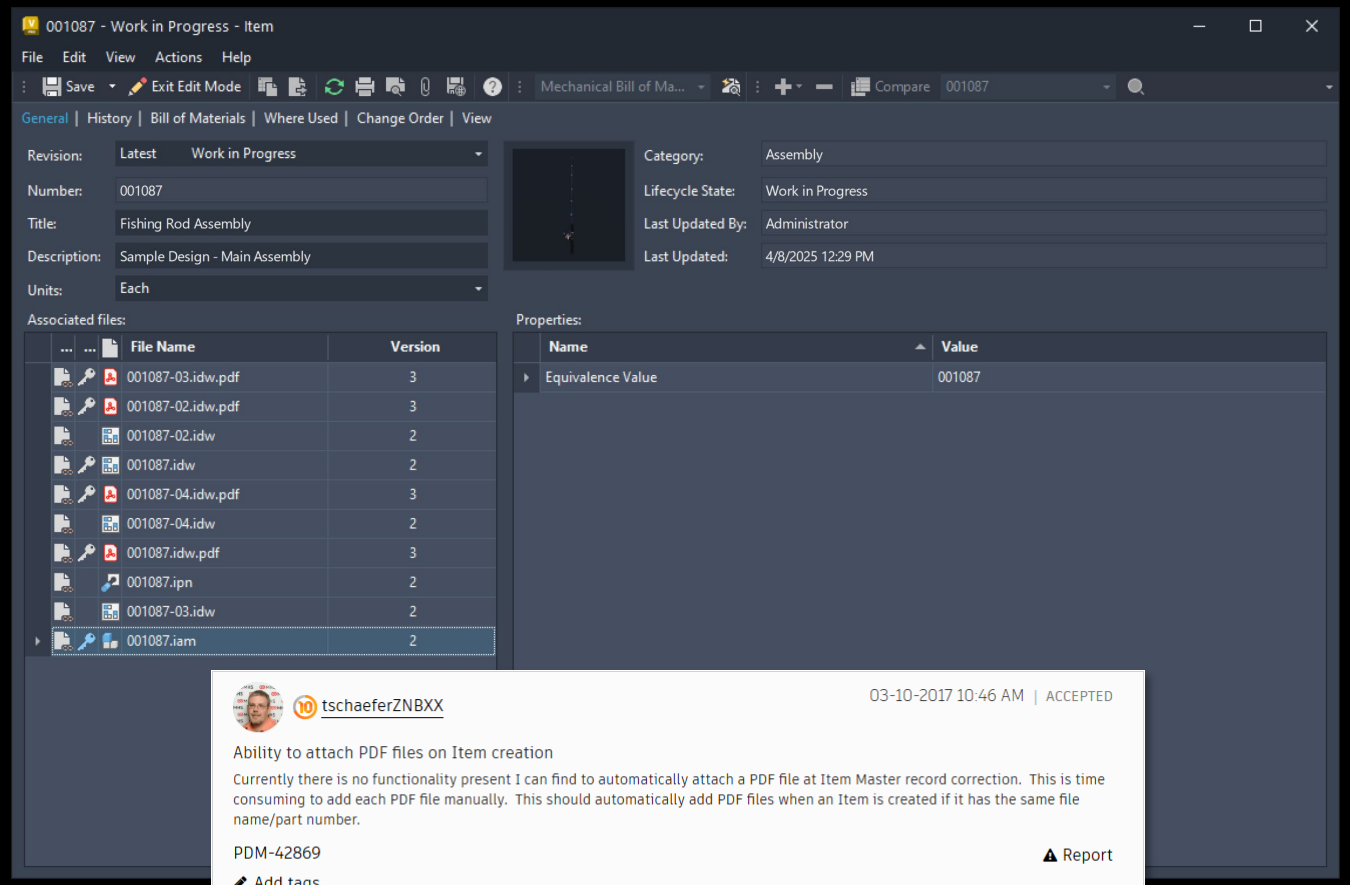


Challenges

When assigning an Item, PDFs are not automatically attached to the Item. This can lead to inefficiencies and possible errors, as users must remember to attach the PDF themselves.

Capabilities

- Incorporate Vault-generated 2D PDF files into Item workflows, such as the DWG and IDW design representation workflows.
- Automate attaching the PDF and all design representation files to the Item whenever an Item is assigned to a file.



Enhancement

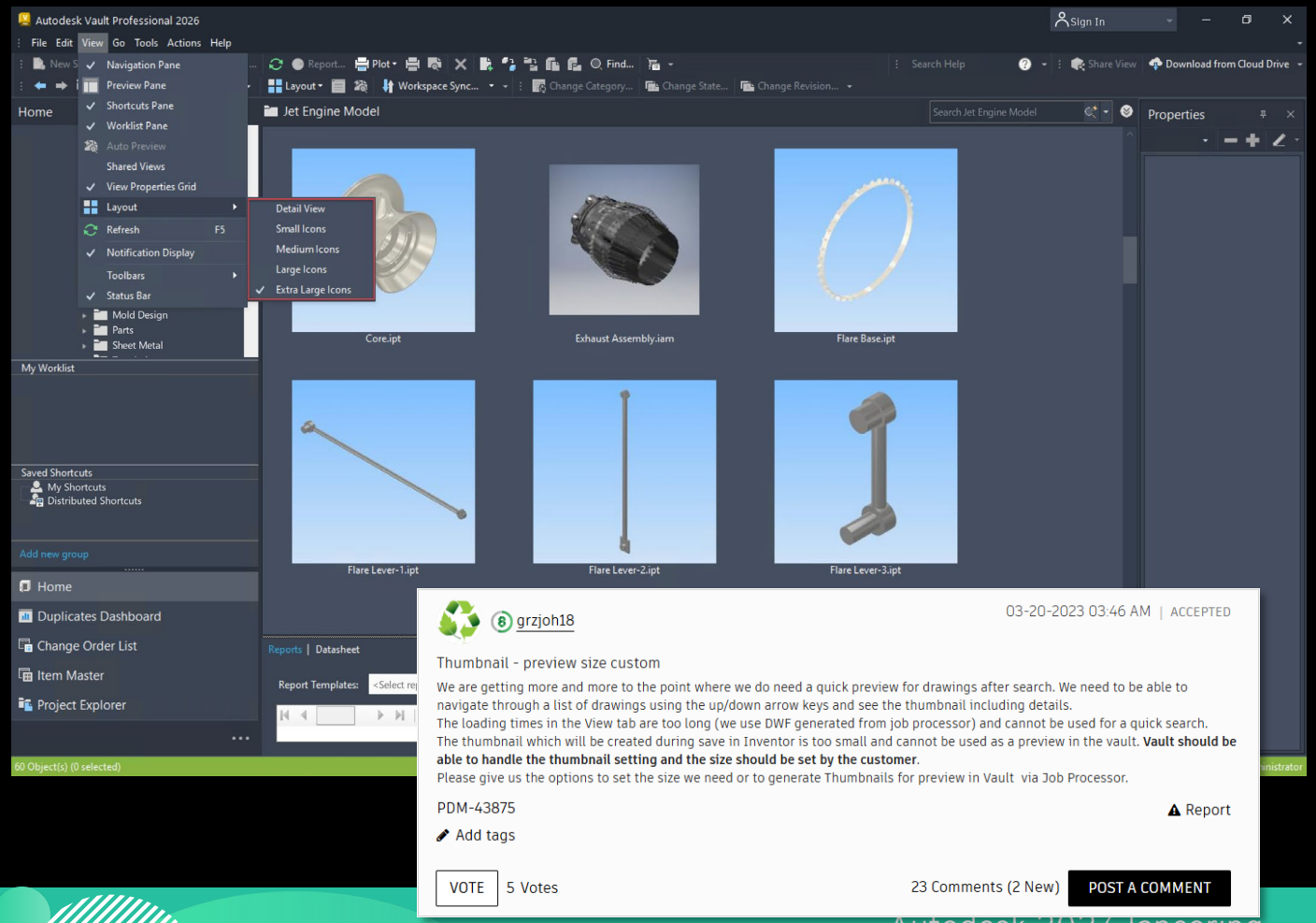
Challenges

Lack of capability to adjust the thumbnail size makes it difficult to distinguish between similar models or drawings, forcing users to open each preview individually.

Capabilities

Supporting higher-resolution thumbnails across Vault provides more precise, detailed previews of models, saving users 10% of their time.

This enables better-informed decisions and the quick identification of models without requiring the opening of each file individually.



Copy & Paste Property Values

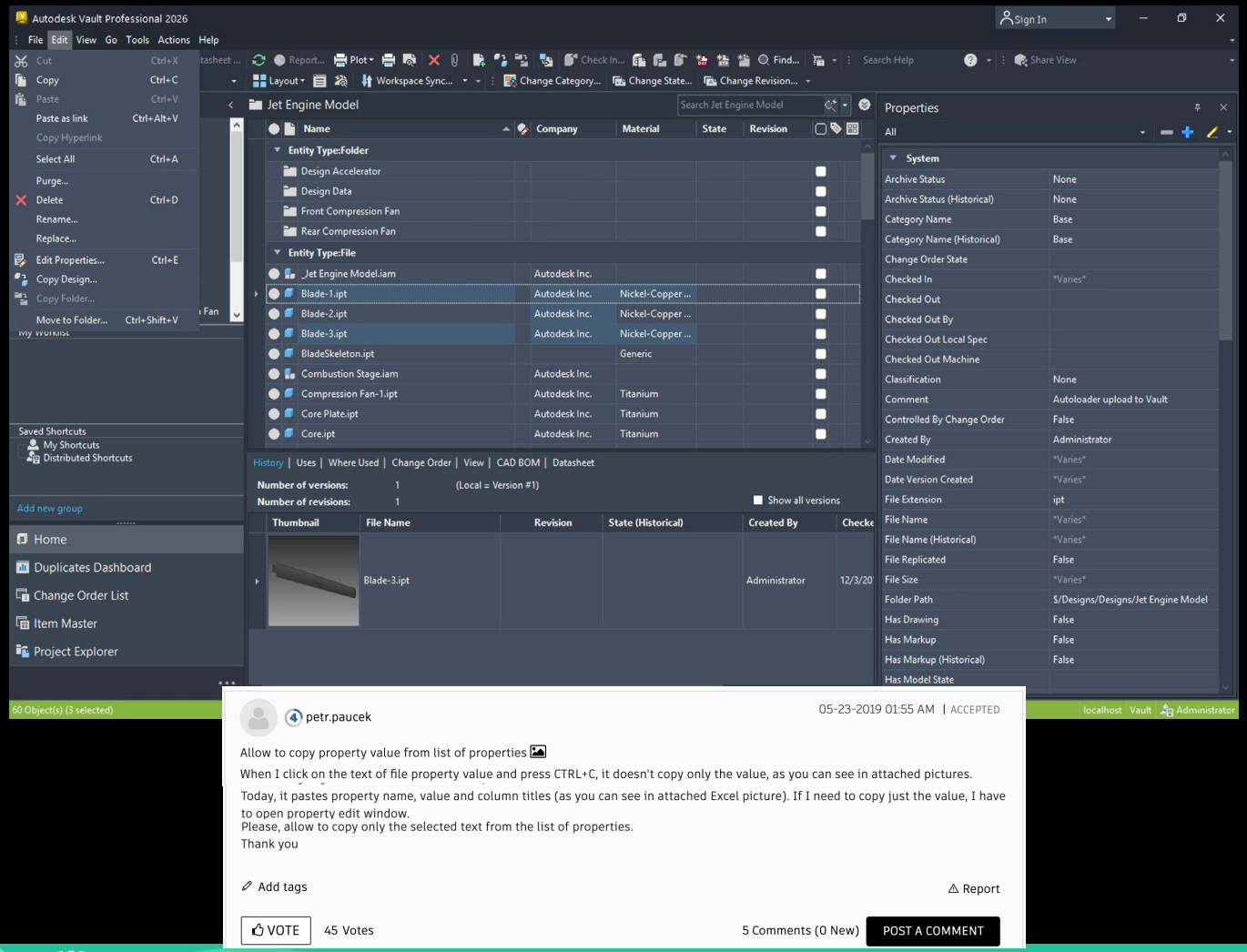
Challenges

Copying values from the Properties panel and grid currently includes extra information, such as property names and headers, rather than just the cell values.

Capabilities

The improved workflow lets users copy selected property cells with CTRL+C and paste them directly.

Reducing rework to eliminate unwanted data and improving ease of use.



Inventor Physical Properties

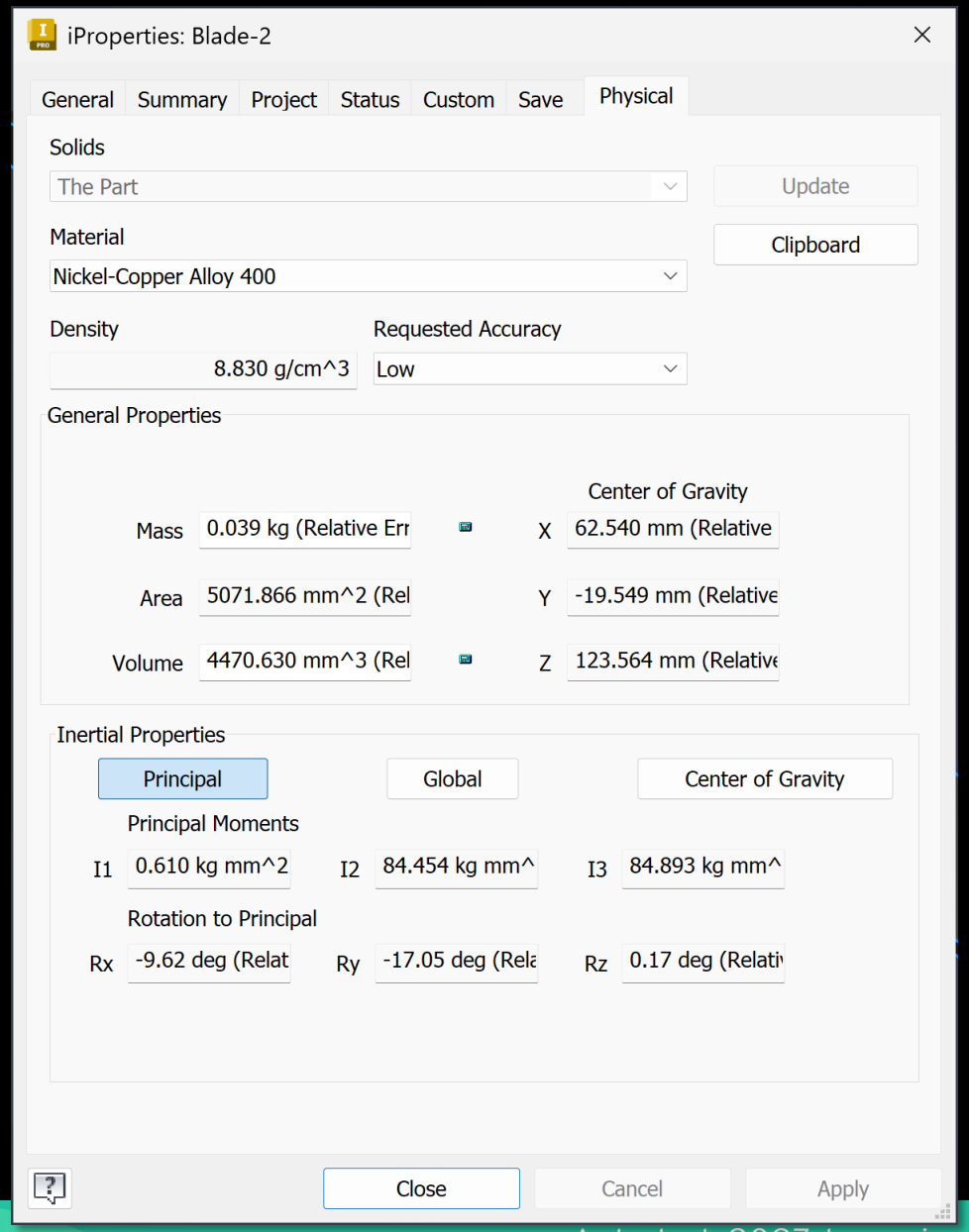
Challenges

Vault does not extract physical properties from Inventor by default. Custom iProperties are needed to extract this information into Vault.

Capabilities

Now Vault extracts physical properties directly from Inventor:

- Area - Surface area of the part or assembly (square centimeter, sq cm)
- Mass - Total mass of the part or assembly (gram, g)
- Volume - Volume measurement of the part or assembly (cubic centimeter, cc)



Multi-Select Open

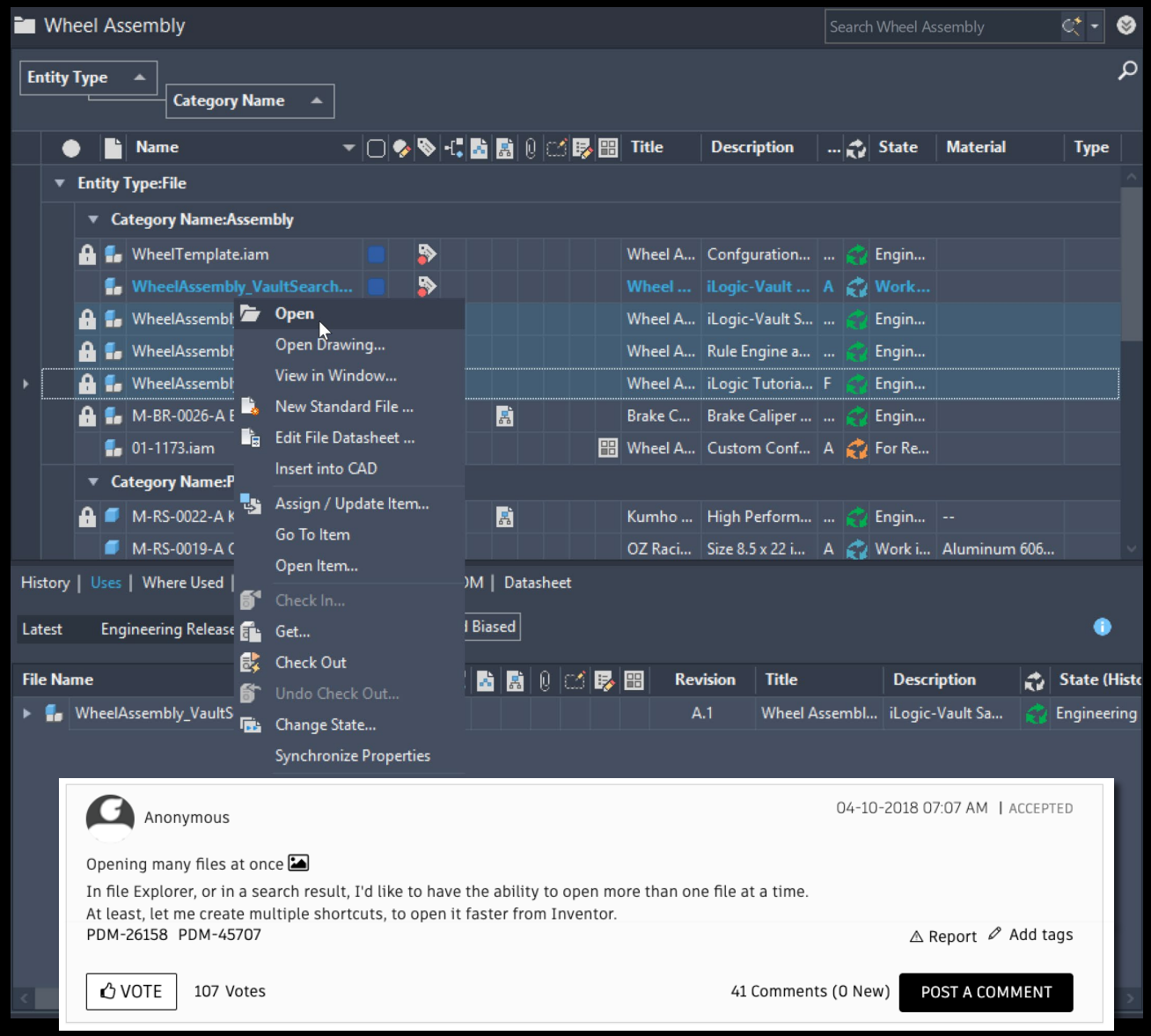
Challenges

Users cannot efficiently open multiple files at once, and multi-selecting files with different extensions for the same application is not supported. This slows down working with large file sets.

Capabilities

Now Vault enables you to open multiple files simultaneously with a single action.

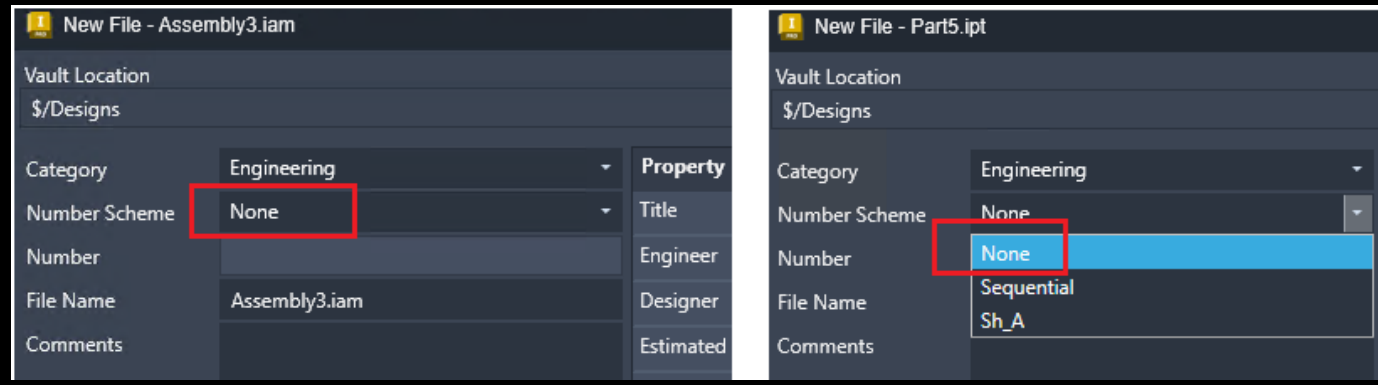
You can select multiple files using CTRL click in Vault Client, then right-click and select Open to open all selected files at once.



Data Standard – No Numbering Scheme Option

Challenges

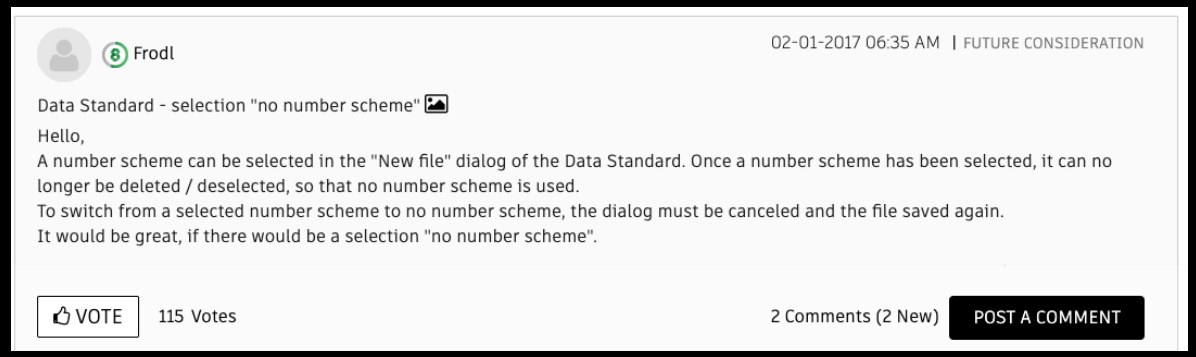
The current Vault Data Standard requires users to select a numbering scheme when creating new items or files, with no option to choose "no number scheme."



Capabilities

Vault 2027 adds a "None" option to the numbering scheme dropdown in the Data Standard.

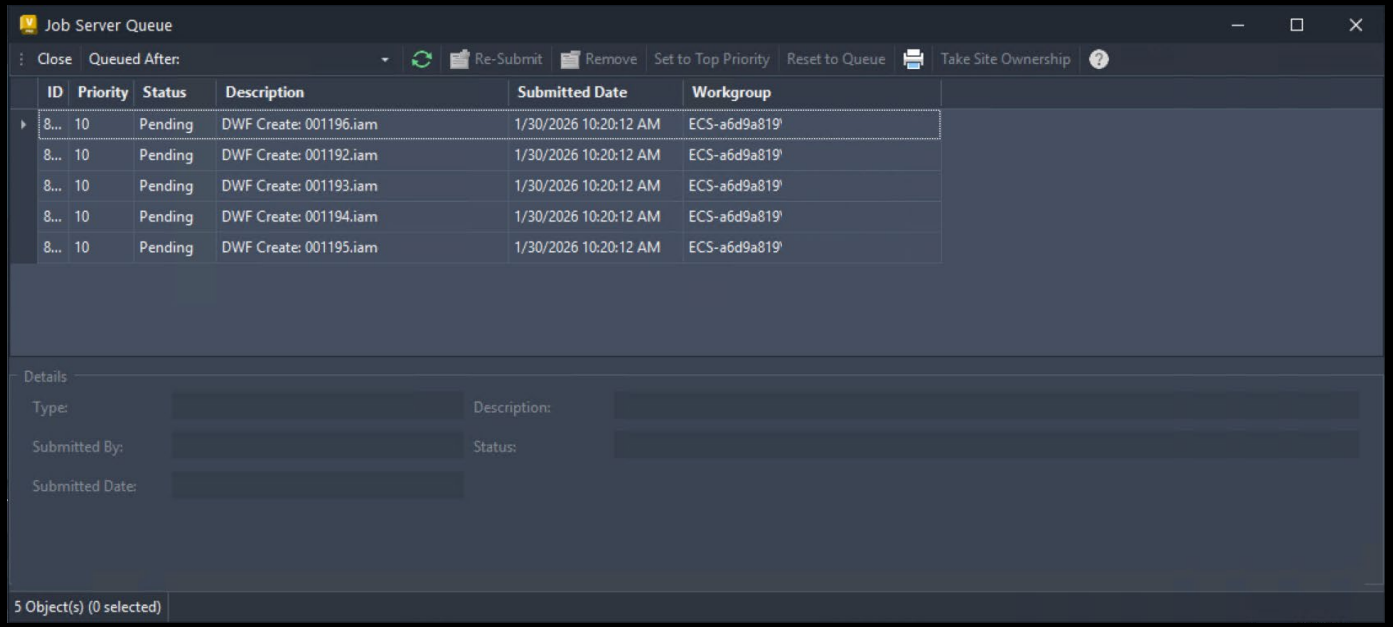
When creating new Items or files, you can now select "No numbering scheme" to skip the numbering scheme requirement.



Job Processor – Workgroup Display

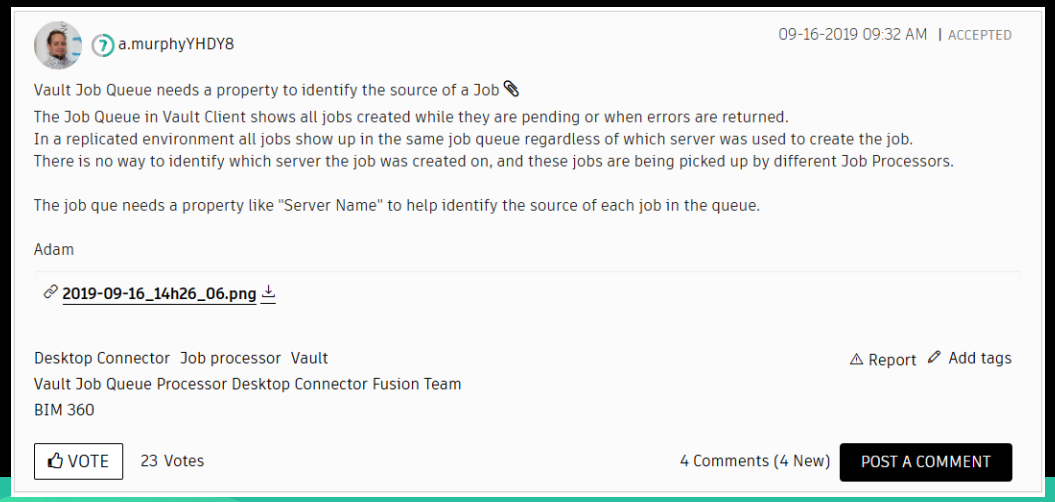
Challenges

With many jobs added to the Job Queue, it is difficult to identify which server the job was created on.



Capabilities

Implement an enhancement to the job queue dialog in Vault that displays the server or workgroup information directly within the job queue.



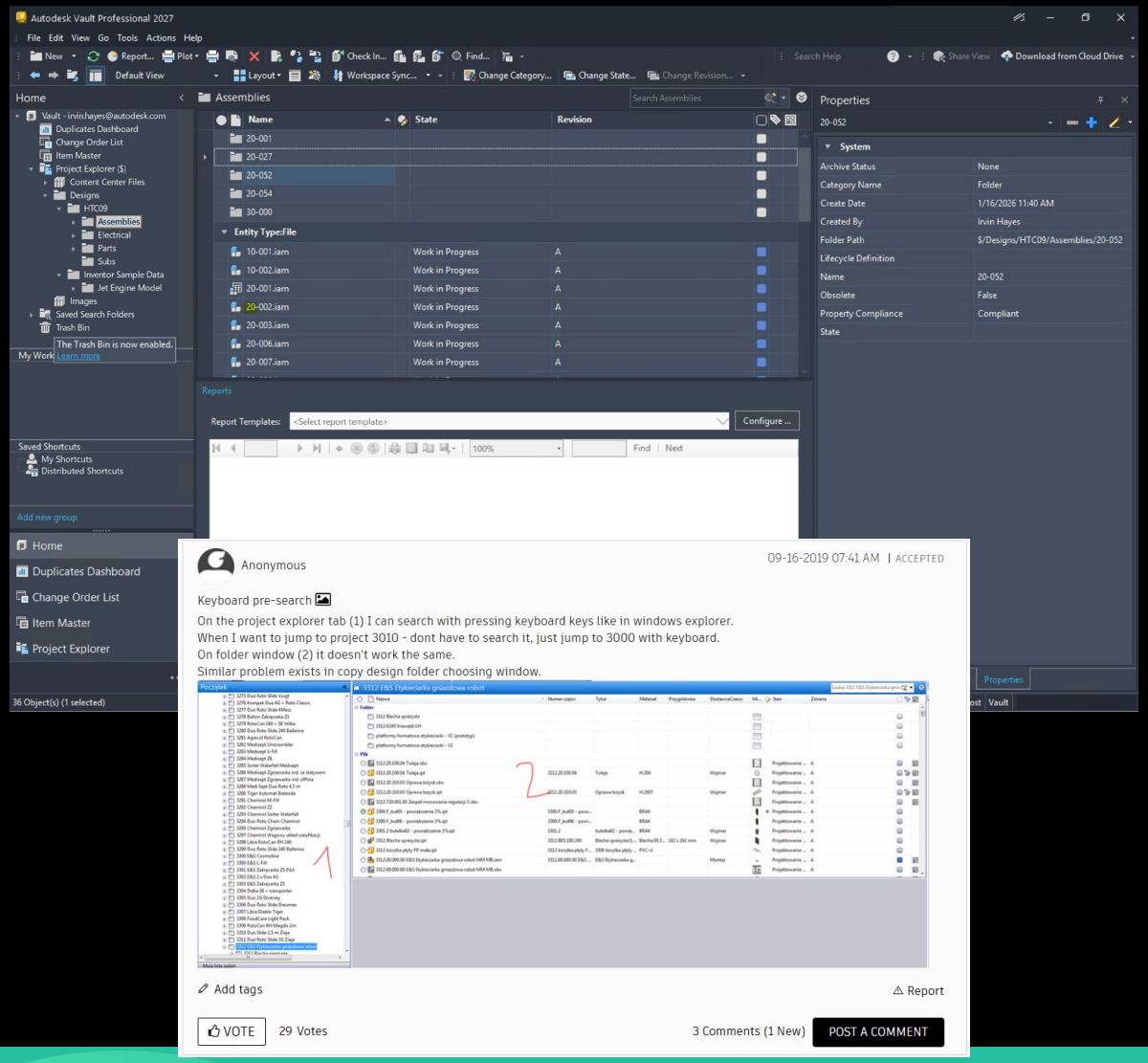
Keyboard Navigation Enhancement

Challenges

Users need the ability to quickly and efficiently search for items within Vault using keyboard shortcuts. The current search functionality relies heavily on mouse interactions.

Capabilities

- Added Ctrl+Shift+F shortcut to open the Find Panel.
- Fast navigation through large lists by incrementally filtering entries based on typed text.



- Collaboration

- Making it easier for more people to review, understand, and act on engineering data

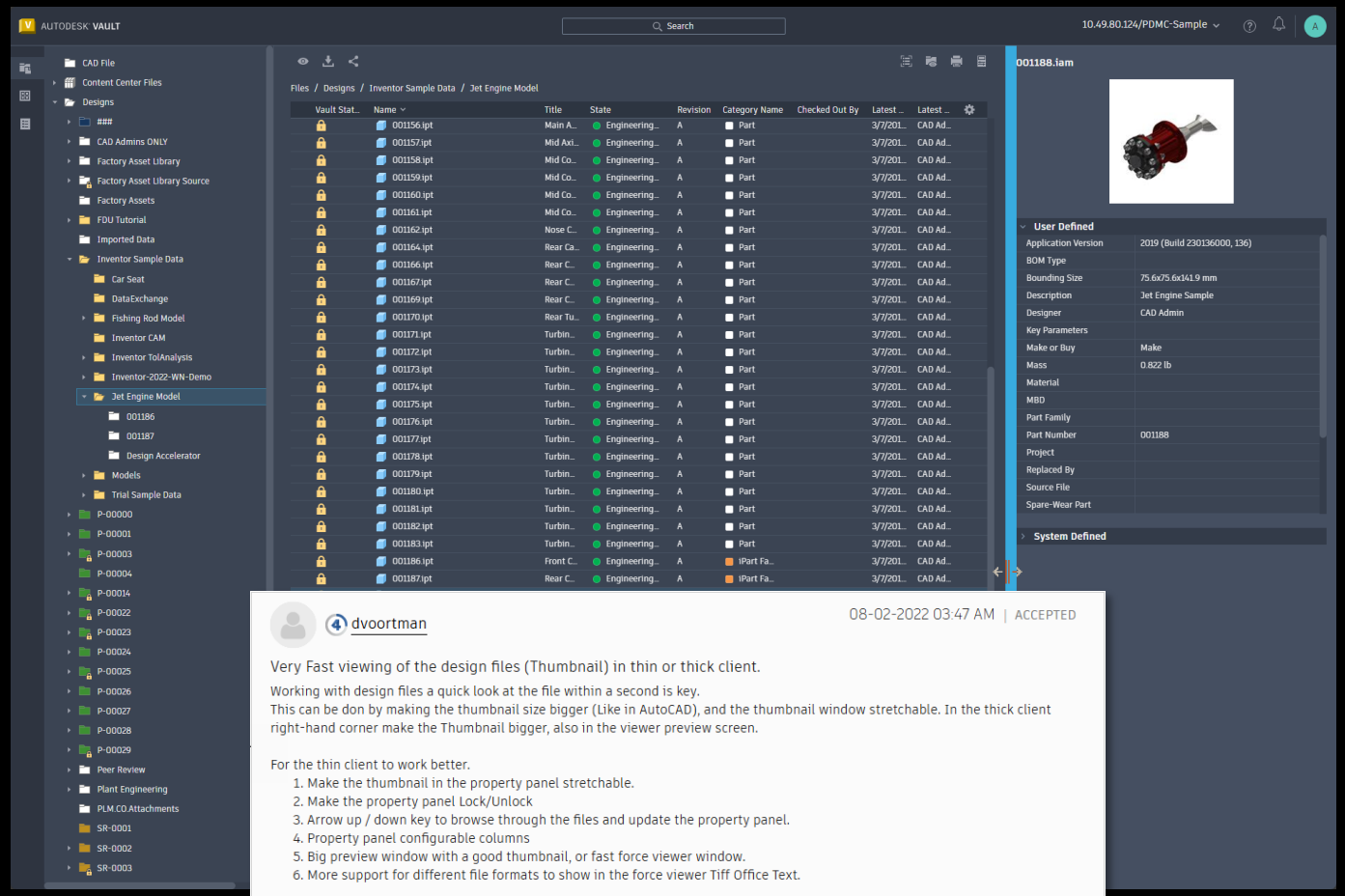
Thin Client Enhancements

Challenges

The Property panel is fixed in size, making it difficult to see details. For properties with long values, users must hover over each value to see the full information, which is time-consuming and inconvenient.

Capabilities

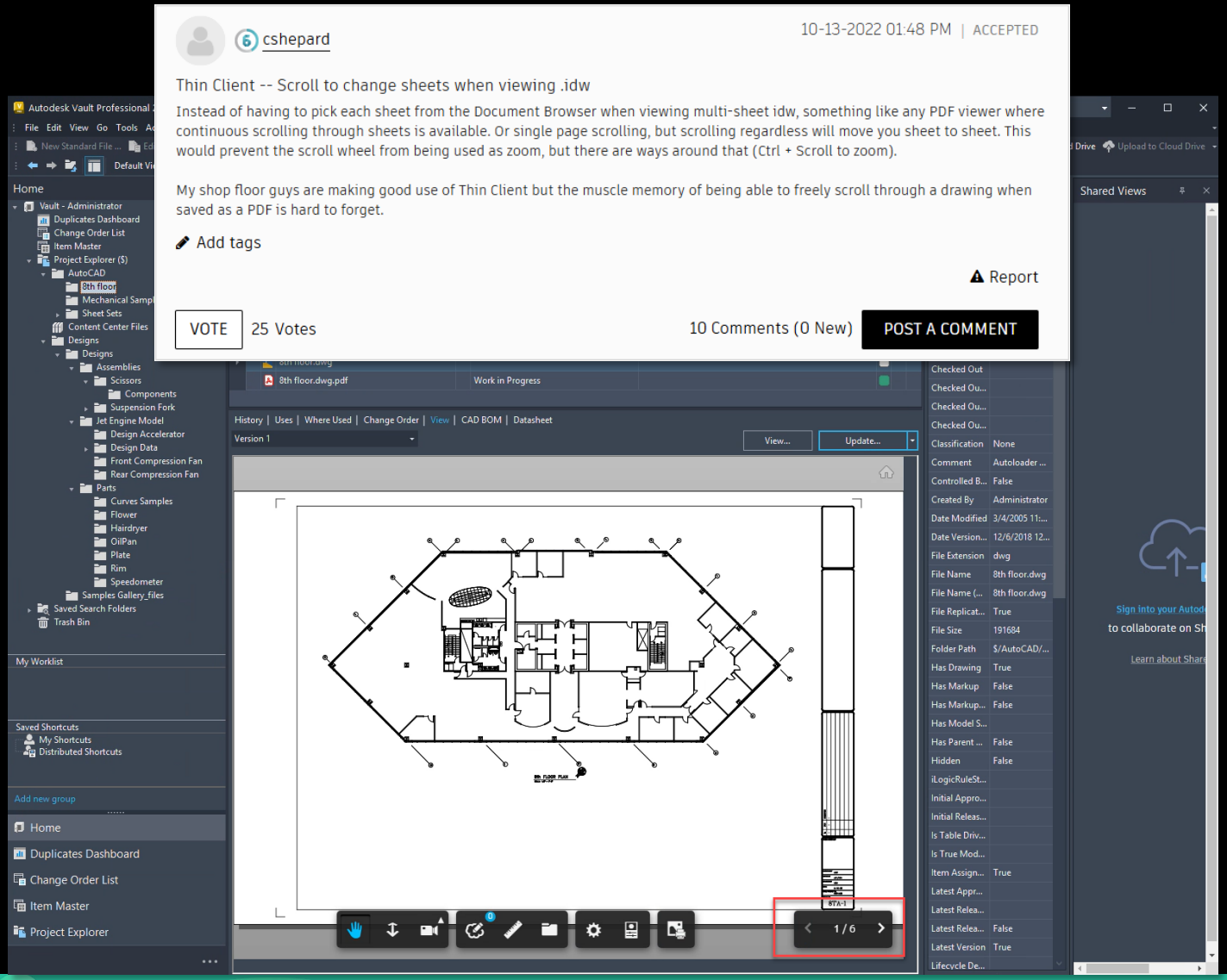
- Resizable Property panel
- Property panel persistent



Viewer Document Navigation

Challenges

When using the Autodesk Viewer in Vault clients to view multi-page files, users cannot efficiently navigate between different sheets within the same drawing.

Capabilities

The new navigation enhancement in the Vault Client will boost productivity by approximately 30%, as users can quickly navigate through multi-sheet drawings during the review process without repetitive clicking.