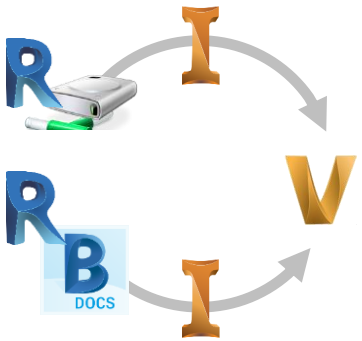
Autodesk® Vault 2021 What's New

© 2020 Autodesk, Inc.

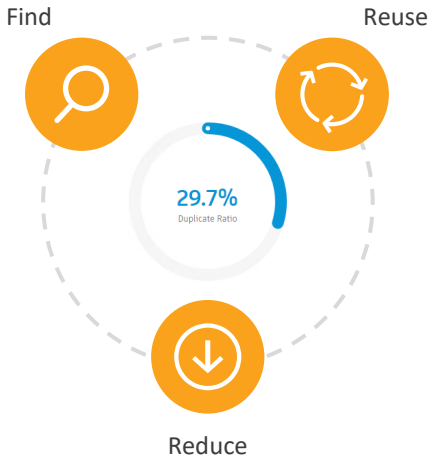
Vault 2021: More Value for Subscribers

Productivity-boosting functionality you can expect



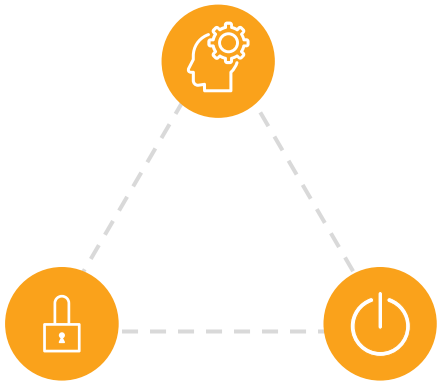
Productivity for CAD Users

Supports Inventor
and Revit interoperability
and adds significant workflow and
usability improvements



Smart Duplicate Reduction

Compares 3D shapes
and delivers insights on
duplicate content



More Efficiency for Administrators

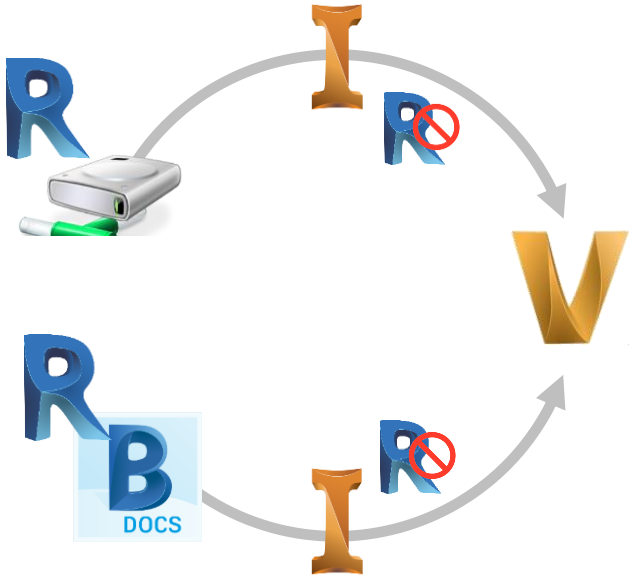
Allows more granularity within the
security model and minimizes
deployment and maintenance
downtime

Productivity for CAD Users

Vault 2021 Supports Inventor and Revit interoperability

For custom fabricators that work in the building and infrastructure industry, Vault 2021 supports the new Inventor and Revit interoperability

- Revit data is stored and archived in **Network drive** or **BIM 360**
  - The data is referenced (incl. links) in Inventor and gets synced
- Revit data is not archived and managed in Vault, but Vault can check in Inventor files properly and open the files properly and resolve any linked Revit files

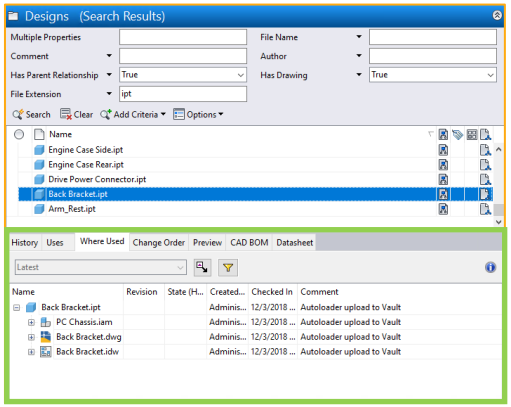


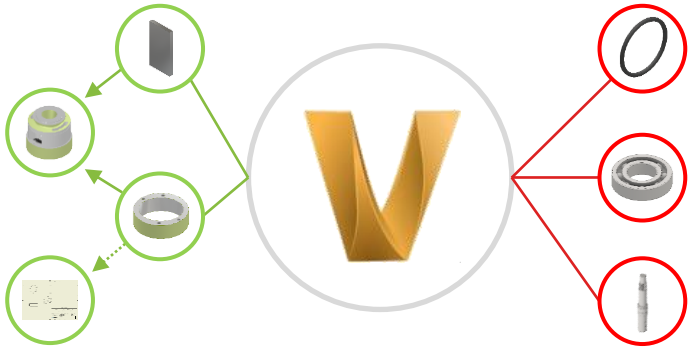
Unused document detection

Vault 2021 can help you clean up unused designs and avoid releasing them

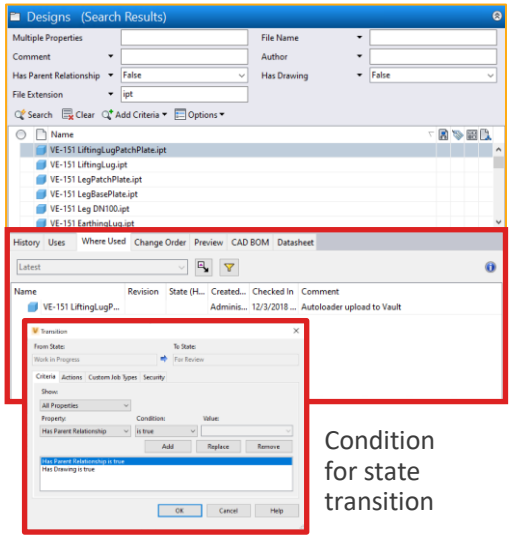
New Property “Has Parent Relationship” to easily recognize orphaned files.
Can be used in Filter/Saved Search, state transition, and much more…

USED DESIGN





UNUSED DESIGN



Condition for state transition

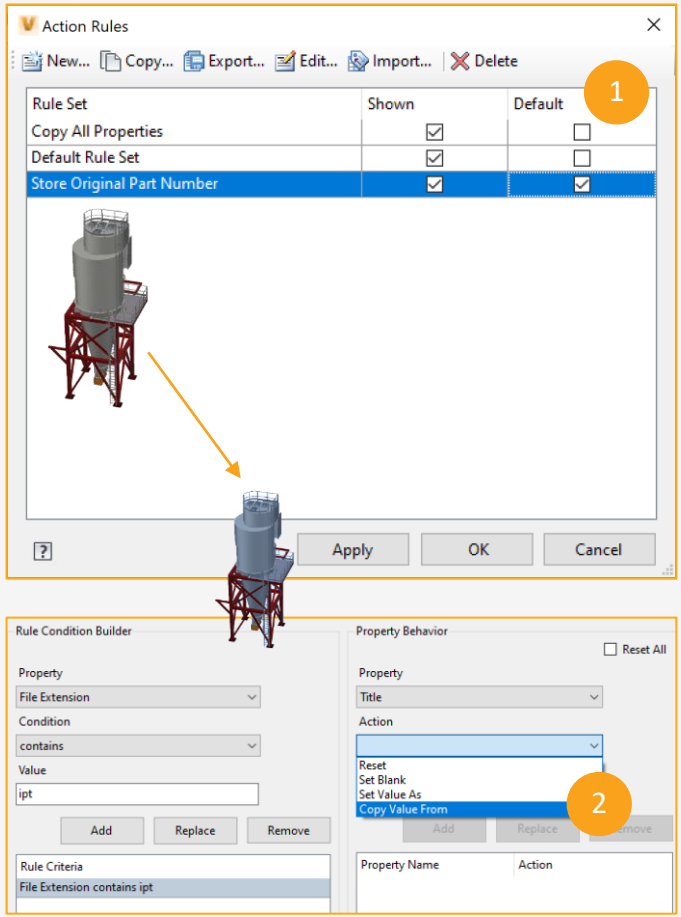
Copy design

Customer Request

Many companies have very strict controls over properties and standards enforcement

Deliverable

- Copy Design Rule Sets are stored on the server instead of the local disk
  - Configure, export, import rulesets and enforce ruleset for all users
- Set a rule to copy a UDP value from the original file to a different UDP in the new file e.g. for original part number, source drawing file etc.



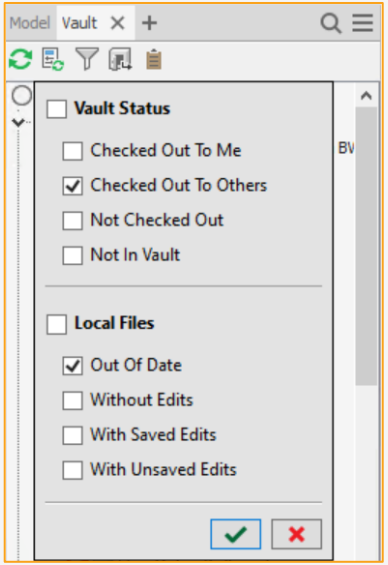
Remove friction

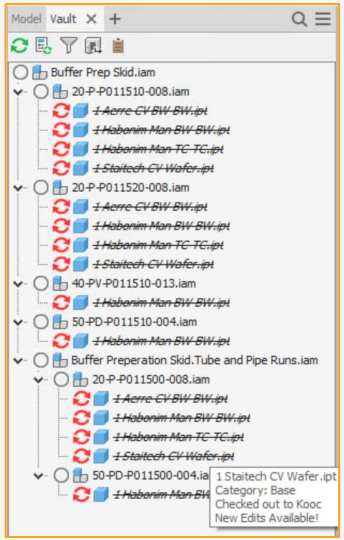
Value

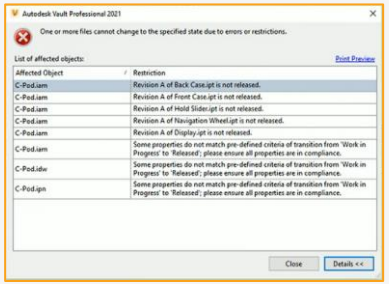
Remove friction for more productivity

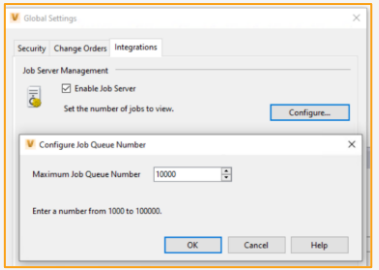
Deliverable

- Add a **New Filter** to show out of date files to quickly retrieve updated files
- Change state condition is batched for actions including Files, Folders, and Items and presented in one dialog instead of separately and every time – huge time savings
- Option to show more than 1000 jobs in Job Queue









ECO notification

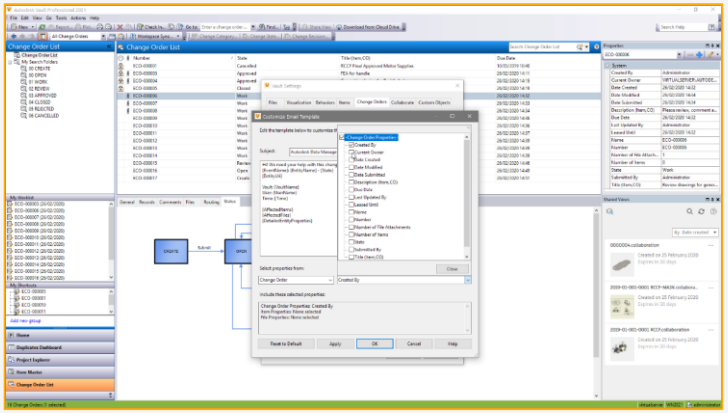
Email template customization

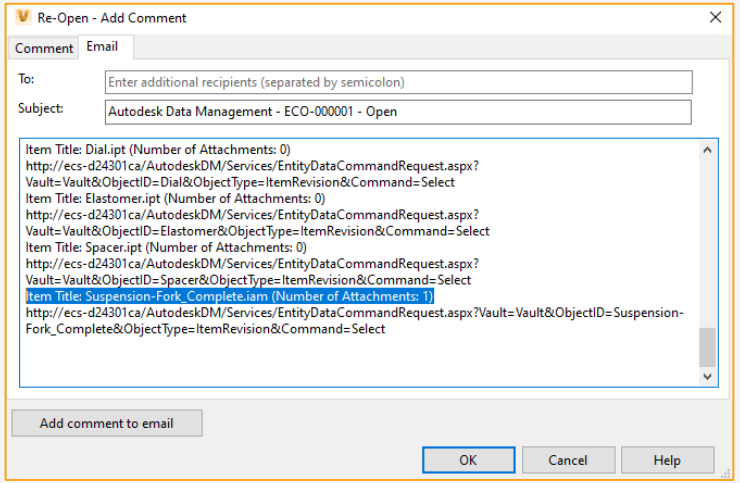
Value

More flexibility and information within ECO notification for easy follow up

Deliverable

- Customize the email template:
  - Include ECO properties in the subject and body of the email
  - Include links to files & Items and more
- Template is stored on the server





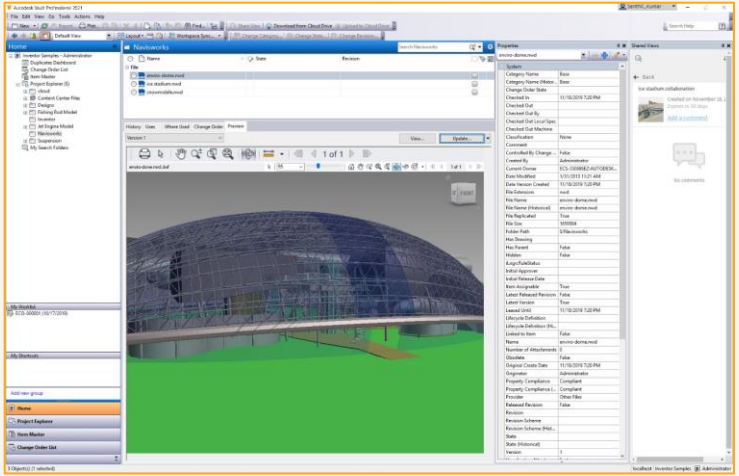
Navisworks preview and Shared Views

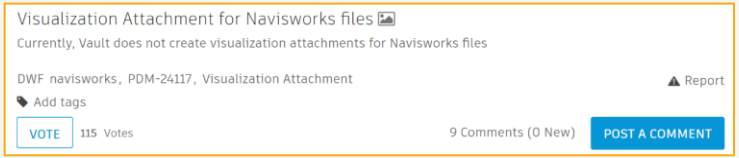
Value

Share Navisworks information to a wider audience for consumption and review

Deliverable

- Generate DWF files for Navisworks and expose them in the preview
- Shared Views capabilities available for Navisworks files





Smart Duplicate Reduction

Manage new part

Challenges

A new part is not just about design time, it is about time and costs of documenting, validating, producing and managing the same physical part again and again.

The annual carrying costs of introducing a new part number range between $4,500 and $23,000 per item*

- Prototyping
- Testing
- Production
- Supplying
- Stocking

*According to The Aberdeen Group, a leading information technology and business intelligence research analyst

Duplicate reduction

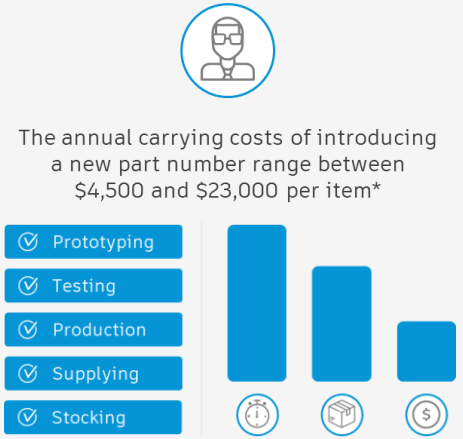
Value for subscriber

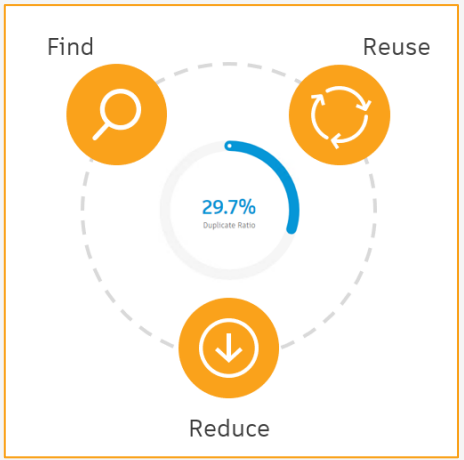
Deliverable

- Understand the duplicate ratio within environment
- Clean up the existing design from duplicate parts during review/ release process and before check in process for external parts

Value

- Reduce time to market and increase profitability by reducing cost after design phase and avoid introducing quality issues
- No disruption for mechanical engineers by allowing them to continue to have the freedom to design the way they want





Data analytics and duplicate reduction

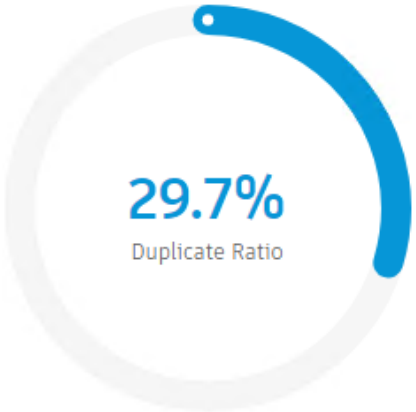
New functionality

Tell me about my data. I need more insights.

How big is the problem in my environment?
Do I need to take any action? If so which actions?

DATA ANALYTICS & INSIGHTS

Tom
Engineering Manager



Detect duplicates and promote more re-use

I want to continue to have the freedom to design how I want, but before releasing the design I want to know whether duplicate parts are available?

DUPLICATE REDUCTION

Christina
Mechanical Engineer

Perform geometric search in Inventor and easily replace duplicate parts workflow

More Efficiency for Administrators

More efficiency for administrators

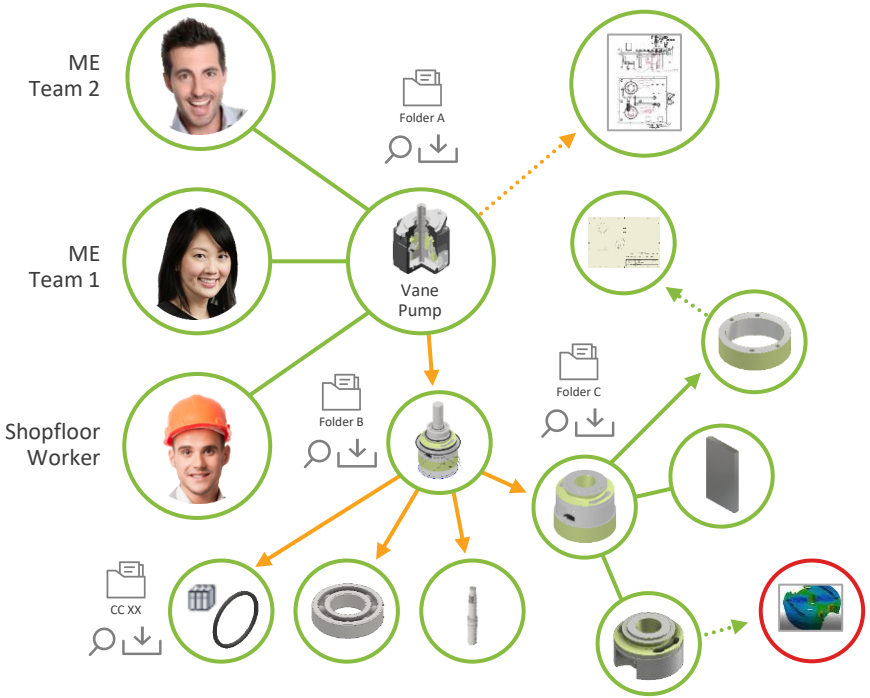
Vault 2021 allows more granularity within the security model and minimizes deployment and maintenance downtime

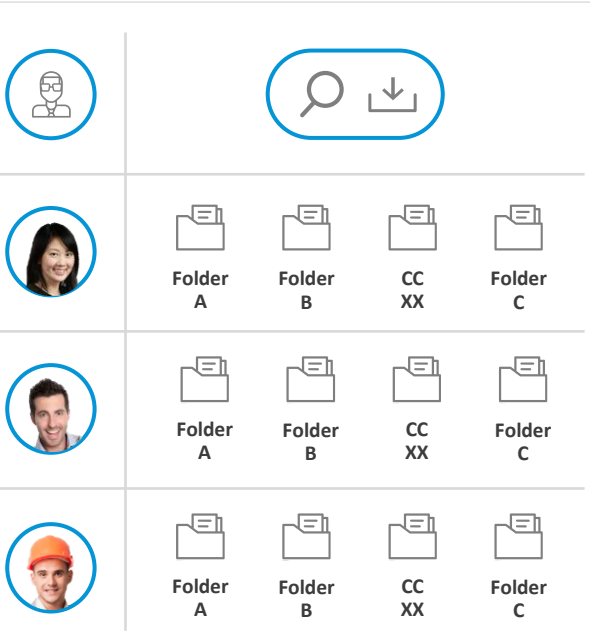
- Restrict file download access
- Audit log
- Hide disabled users and groups
- Resizable security dialog
- Easily identify user with Admin role when logged in
- Flexible instance name
- Purge historical data
- Quick file store validation

Vault 2020 security model

Need more granularity

Design/Folder A/Folder B/Folder C



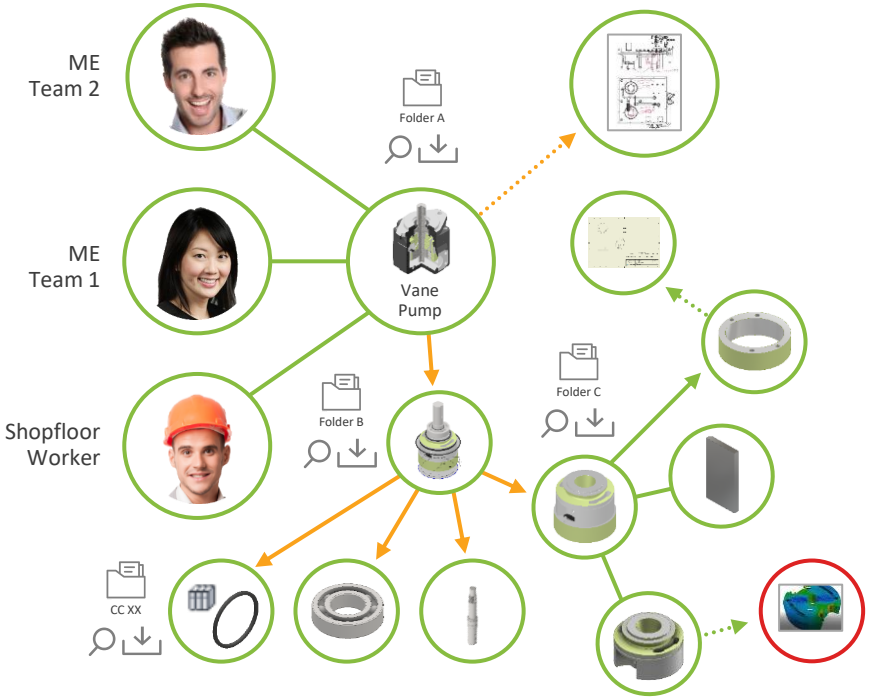


Read access also allows file download
Shopfloor worker and ME from Team 2 can access and download all files including sensitive data

Security model in 2021

More granularity!

Design/Folder A/Folder B/Folder C



	Folder A CC XX Folder B Folder C	Folder A CC XX Folder B Folder C
	Folder A CC XX Folder B Folder C	CC XX Folder B Folder C
	Folder A CC XX Folder B Folder C	CC XX Folder C

Read access: meta data like Used/Where Used, Thumbnail

Download access: appropriate groups and users download the right design data

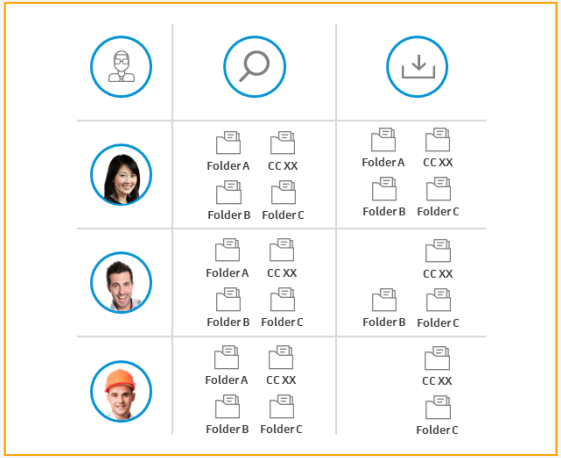
More granularity benefits

Value

- Increase cross department and external collaboration while continue to protect your data
- Eliminate extra work to re-organize your data to fit security system requirements
- Separate audit logs & configure the system with ease
- Address the most requested ideas in the forum

What

- Grant read access to the appropriate groups and users role based while preventing data download
- Flexibility to restrict download access to sensible design data while continue to allow read access for meta data for search, reports etc. object & Lifecycle based
- Track download & Audit Log & several usability enhancements (resizable dialog, hide disabled users and much more)



What does this mean for your existing data?

You have a new download permission

Migrate existing roles, objects, and lifecycle security read permission to read plus download permissions

Flexible

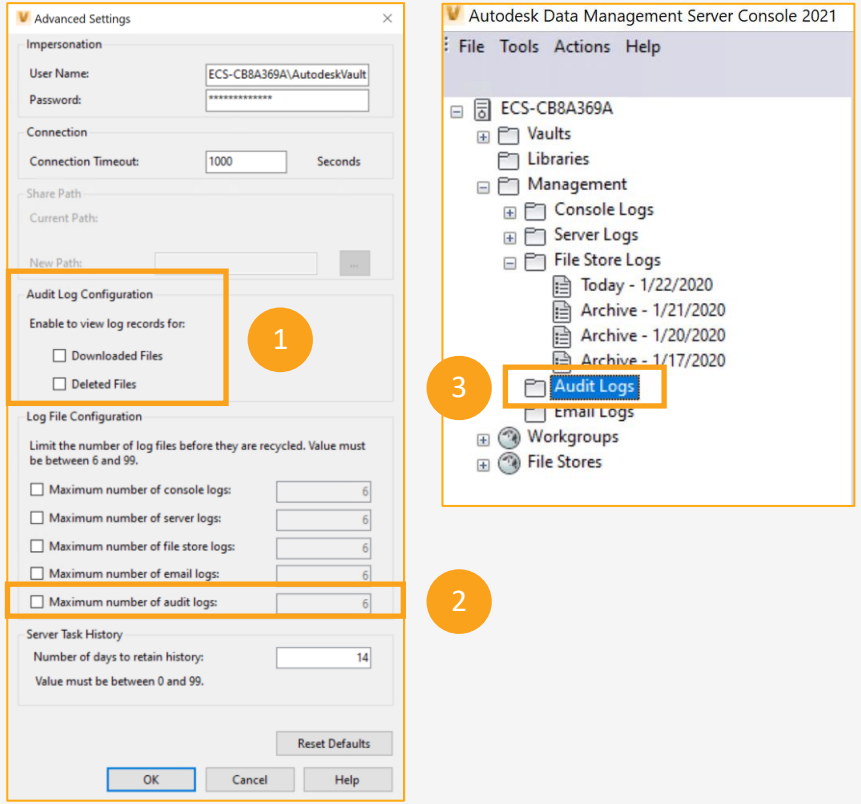
Read/Download permissions can be applied to roles, objects, and lifecycle state

Note: DWF & PDF files continue to have a different ACL than CAD files

Operation	Read	Download
Properties Read (incl. Thumbnail)	✓	
Search, Reports, Send a link	✓	
Open, View in Window, Insert into CAD	✓	✓
GET, File Download in Thin Client, Pack & Go, Copy Design	✓	✓
Create PDF, DWF, Edit/ Update Properties, Job Processor	✓	✓
Share Views, Update View, Manual Upload to Cloud Drive, Job Processor	✓	✓

Track download and audit log

- Enhanced logging for download to track “real” download operations only
  - GET, Open, View in Window, Insert into CAD, Update View
  - Pack & Go, Send File, Share Views
- UI setting to turn on/off logging for download and delete
- Separate Audit Logs file for download and delete



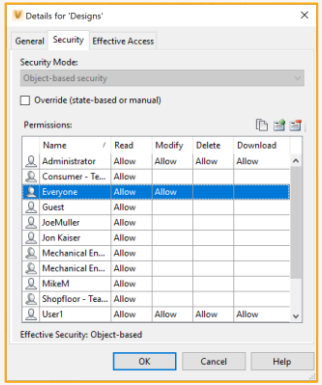
Usability enhancements in Object security dialog.

Customer request

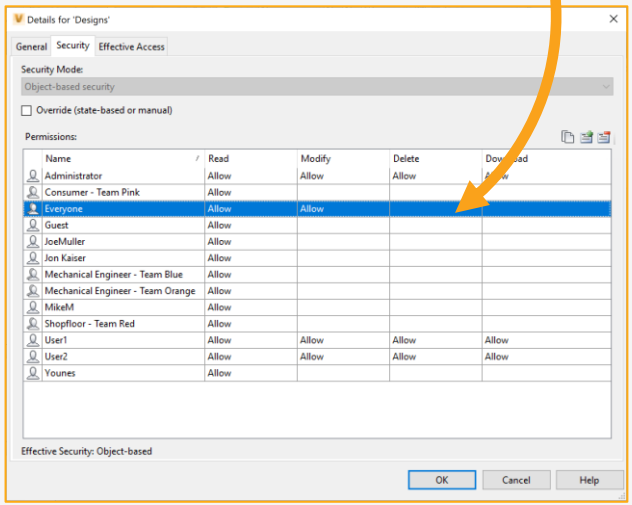
Very difficult today if you are managing 100's of users to navigate through the Object security dialog

Deliverable

Resizable Details dialog for better usability on Security Tab



Vault 2020



Vault 2021

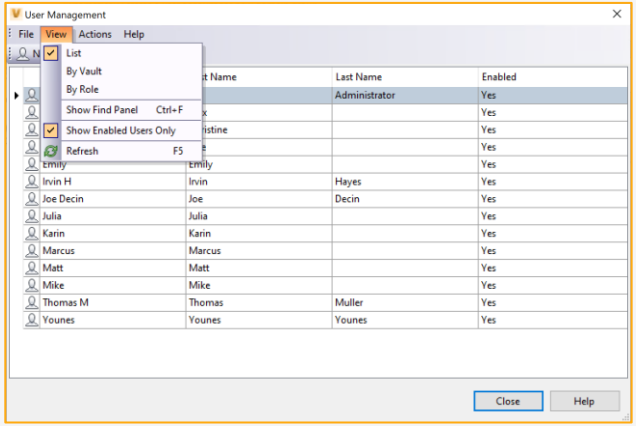
Usability enhancements in user management dialogs

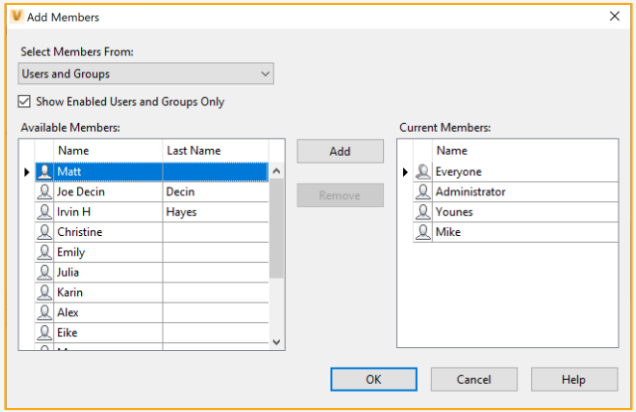
Customer request

Easy administration of disabled users

Deliverable

Option to filter out disabled users and groups in Users, Groups management dialogs as well as in “add Members dialogs” within object security tab, state security tab, transition definition, etc.





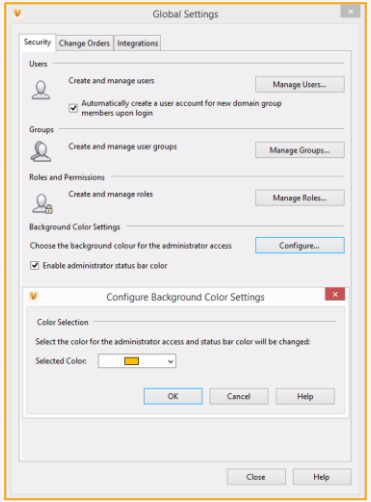
Usability enhancements for vault admins

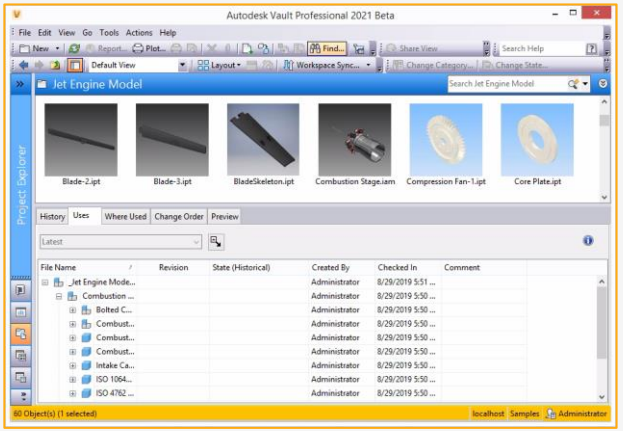
Customer request

“Easy Recognize” login user with administrator permissions

Deliverable

Configure status bar color in security tab for users assigned to admin roles





Minimize downtime for backup / maintenance

Customer challenge

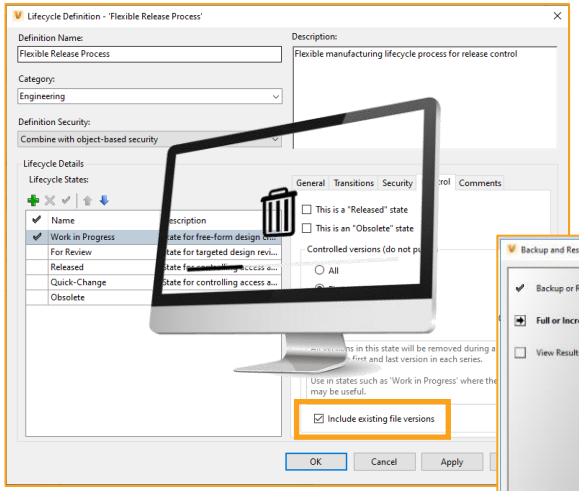
Backup, restore upgrade workflows are taking a very long time by big databases and file-stores

What

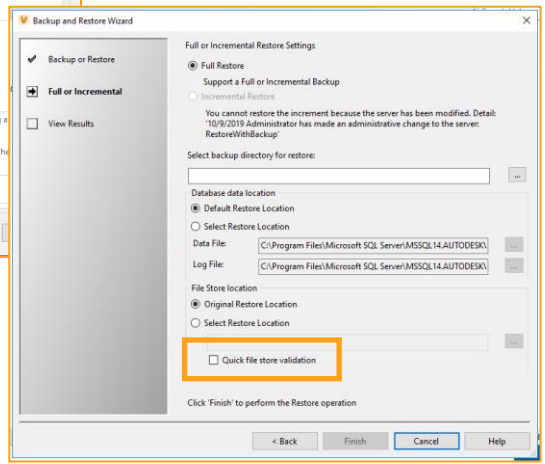
- Allow purge for legacy versions which are under lifecycle control
- File store validation is optimized
- You can also use quick file store option for quick validation

Value

Minimize downtime during Backup, Restore, and upgrade by reducing file stores and database size



New purge option to include existing file versions per state in the control tab

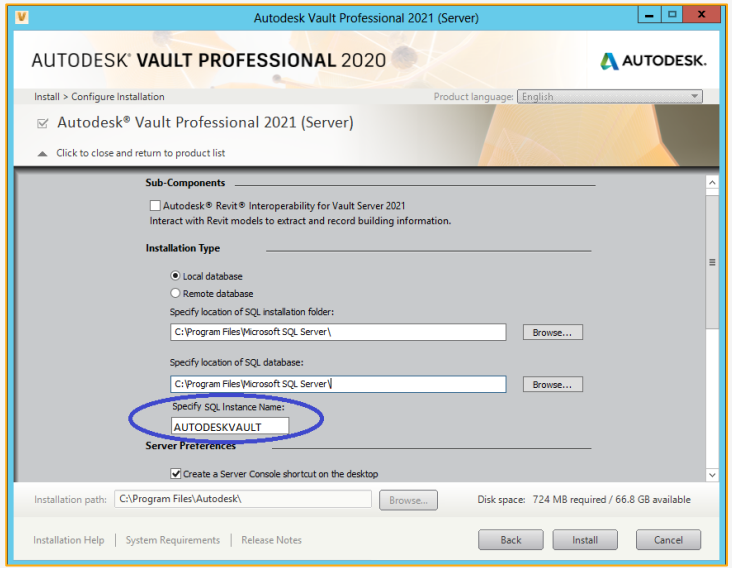


Quick File store validation option within attach and restore

More flexible deployment

Allows Vault installation/configuration to connect to an Instance not named AUTODESKVAULT

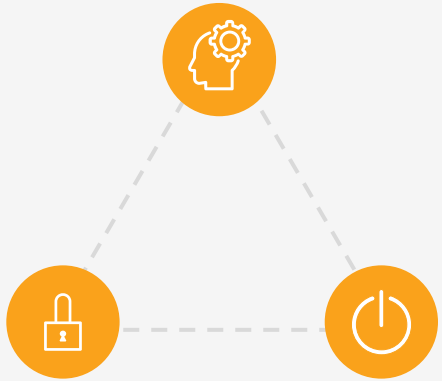
- Naming conventions that must be kept for company standards
- When several Vault Servers reside in the same IT infrastructure
- Separate DEV/ QA environment that is running a mirror image of production Vault
- Several Vault Server versions within the same SQL Server



More efficiency for Administrators and collaboration workflows

Value

- Increase cross-department and external collaboration while protecting data and eliminating extra work to reorganize data to fit security system requirements
- Separate audit logs and ability to configure the system with ease
- Reduce file store size impact downtime during Backup and Restore
- Comply and IT naming converting and maintenance costs for test environment

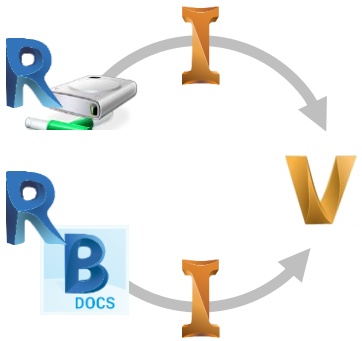


Deliverable

- Grant read access to the appropriate groups and user roles while preventing data download
- Flexibility to restrict download access of sensitive data while allowing read access of meta data for search, reports, etc. by object and lifecycle
- Track download and audit log and several usability enhancements (resizable dialog, hide disabled users, and much more)
- Quick file store validation and purge historical data functionality
- Flexible instance name

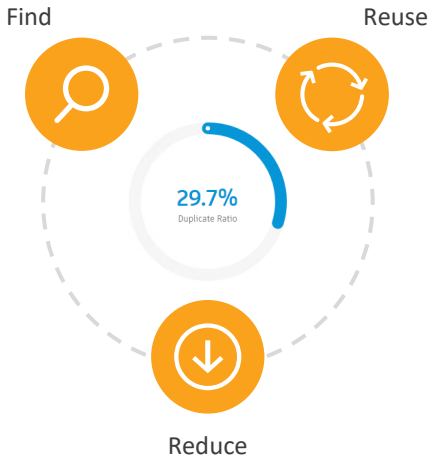
Vault 2021: More Value for Subscribers

Productivity-boosting functionality you can expect



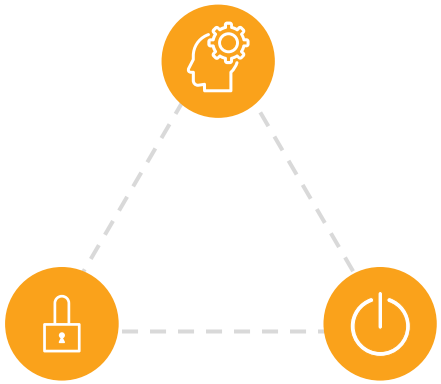
Productivity for CAD Users

Supports Inventor
and Revit interoperability
and adds significant workflow and
usability improvements



Smart Duplicate Reduction

Compares 3D shapes
and delivers insights on
duplicate content



More Efficiency for Administrators

Allows more granularity within the
security model and minimizes
deployment and maintenance
downtime

AUTODESK®

Make anything™

Autodesk and the Autodesk logo are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© 2020 Autodesk. All rights reserved.