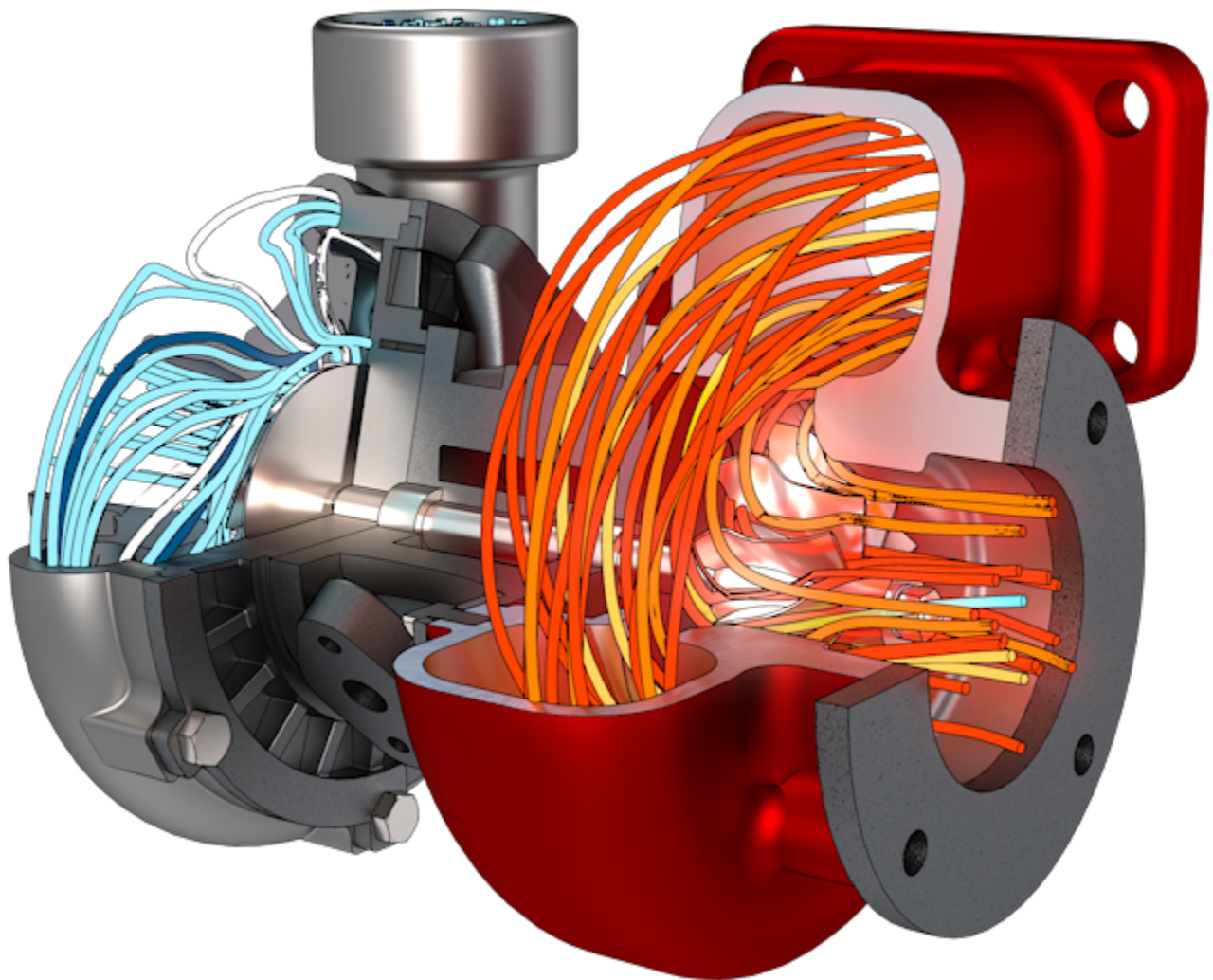




WHAT'S NEW

SOLIDWORKS PDM 2022



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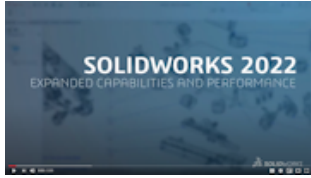
SOLIDWORKS PDM

Topics:

- **Integration with Microsoft Windows Active Directory**
- **Configuration Handling**
- **Exporting Archive Server and User Logs**
- **SOLIDWORKS PDM User Interface Enhancements**
- **Viewing Configurations for All Versions in the Where Used Tab**
- **Using EXALEAD OnePart Search in SOLIDWORKS PDM**
- **SOLIDWORKS eDrawings Viewer in the Preview Tab**
- **Support for Neutral CAD File Formats in eDrawings Web Preview**
- **Opening a Drawing from the SOLIDWORKS PDM Add-In**
- **SOLIDWORKS PDM Performance Improvements**
- **Web2 Data Cards**
- **Resizing an Image in a Data Card**
- **Other SOLIDWORKS PDM Enhancements**

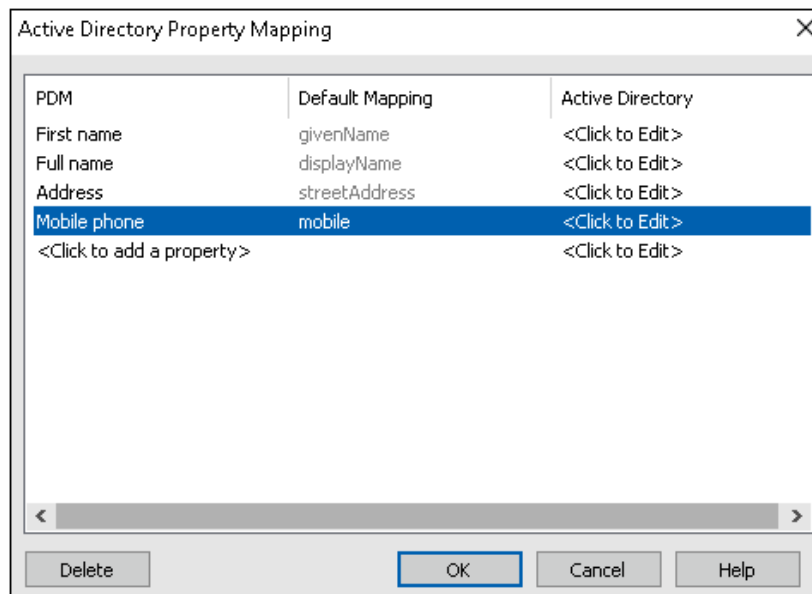
SOLIDWORKS® PDM is offered in two versions. SOLIDWORKS PDM Standard is included with SOLIDWORKS Professional and SOLIDWORKS Premium, and is available as a separately purchased license for non-SOLIDWORKS users. It offers standard data management capabilities for a small number of users.

SOLIDWORKS PDM Professional is a full-featured data management solution for a small and large number of users, and is available as a separately purchased license.



Video: What's New in SOLIDWORKS 2022 - SOLIDWORKS PDM

Integration with Microsoft Windows Active Directory






With improved integration with Microsoft® Windows Active Directory, you have more options to manage users and groups that use Windows login.


The User Properties dialog box has additional fields. You can override the default property mappings or map properties such as **User data** that are not mapped to any Active Directory attribute. In the Administration tool, right-click **Users and Groups Management** and click **Active Directory Property Mapping**.

- You must have **Can administrate users** administrative permission.
- You can map a user property to only one Active Directory attribute.

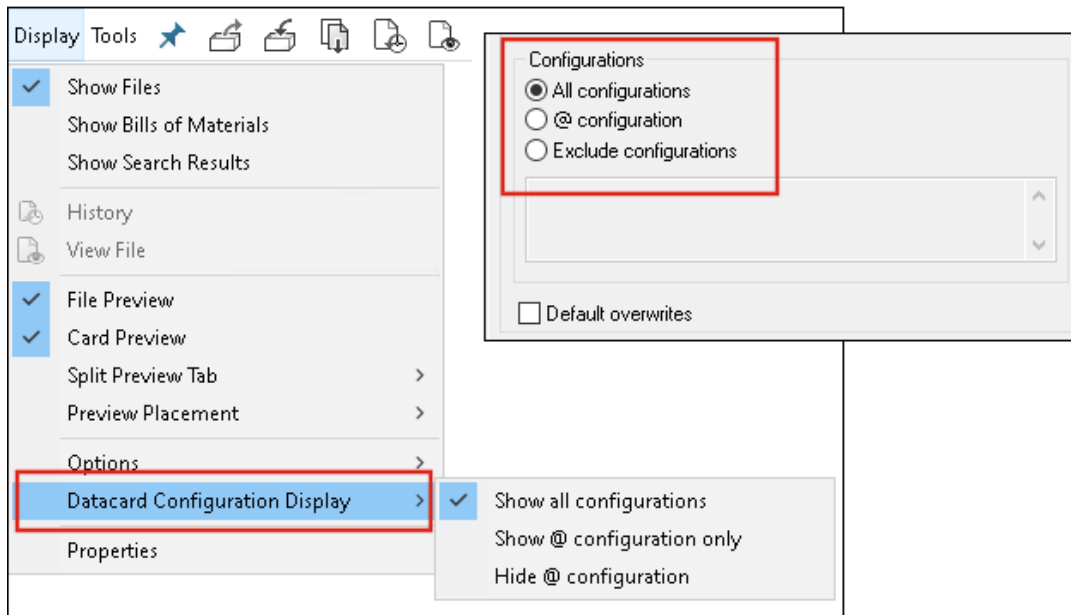
You can also:

- Import the user's profile picture from the Active Directory.
- View the profile picture in the SOLIDWORKS PDM menu bar if you have set it in the Active Directory. Hover over **Logged in as**  to view the image in larger size.
- Edit the presence note directly from the user pop-up window.
- Identify Windows users and groups through an indicator in the icons .
- Validate Windows groups. In the Administration tool, under **Users and Groups Management**, right-click **Groups** and click **Validate Groups from Active Directory**.

If the group does not exist in the Active Directory, the icon displays with a red plus indicator . Right-click the group name and click **Information** to view details.

- Validate SOLIDWORKS PDM and Windows user logins. Right-click the user name and click **Validate Logins**. If SOLIDWORKS PDM user information is invalid, the user icon displays with a red lock indicator . Right-click the user name and click **Information** to view details.

Configuration Handling



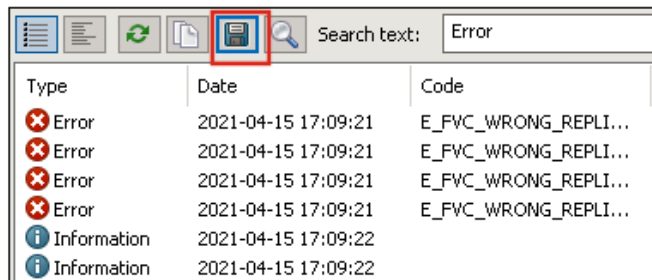
SOLIDWORKS PDM 2022 offers more control over configurations.

- For many card controls, you can assign a default value to automatically fill in the control variable when a user saves a new file or item or adds it to the vault. Previously, you could either apply default values to all configurations or use **Exclude configurations** to specify a list of configurations to exclude. You also have the ability to apply default values only for **@ configuration**.
- You can configure the display of configurations in data cards. In SOLIDWORKS PDM File Explorer, click **Display**, select **Datacard Configuration Display**, and select one of the following:
 - **Show all configurations**
 - **Show @ configuration only**
 - **Hide @ configuration**

For SOLIDWORKS PDM 2021 or earlier client versions, if you selected **Hide @ configuration**, it remains selected after you upgrade to SOLIDWORKS PDM 2022.

You can add **Datacard Configuration Display** to shortcut menus and SOLIDWORKS PDM menus located above the right pane. In the Administration tool, right-click a user or group and click **Settings**. Use the **Menus** page to add the **Datacard Configuration Display** command to the menus.

Exporting Archive Server and User Logs



You can export a summary of archive server and user logs in multiple file formats.

You can export the logs in:

- **Comma Separated Value Files (*.csv)**
- **JSON Files (*.json)**
- **Text Files (*.txt)**
- **All Files (*.*)**

Exporting Archive Server Logs

To export archive server logs:

1. In the Administration tool, right-click archive server name and click **Show the Archive Server Log**.
2. In the Log File dialog box, click **Save As**.
3. In the Save As dialog box, enter a name in **File name**, select **Save as type**, and click **Save**.

Exporting User Logs

To export user logs:

1. In the Administration tool, under **Local Settings**, double-click **Log File**.
2. In the Log File dialog box, click **Save As**.
3. In the Save As dialog box, enter a file name in **File name**, select **Save as type**, and click **Save**.

SOLIDWORKS PDM User Interface Enhancements

Type	File Name	Warnings	Check In	Keep Check...	Remove L...
	BATTERY STRAP.sldprt		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	▼ MK3_BASKET.sldasm		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	121291-Mykonos3_MB_HW...		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	MC25060V1.sldprt		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	MK3-SHAFT.sldprt		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

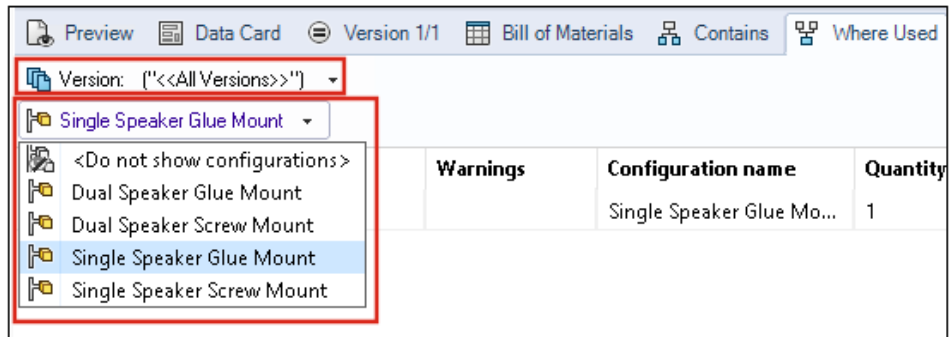
Comment:

Total to Check In: 95 Files (12) (83) (0) (0) Check In

The SOLIDWORKS PDM user interface has improvements that enhance usability and readability.

- When you perform a file operation, you can see the number and type of files affected by that operation. This feature is available in the following dialog boxes:
 - Check In
 - Check Out
 - Undo Check Out
 - Change State
 - Get
 - Rollback
- You can resize columns of the variables area in the SOLIDWORKS PDM task pane add-in. This improves the readability of variables and values.
- The SOLIDWORKS PDM task pane add-in follows the color theme of SOLIDWORKS. When you hover over any row in the file list of the add-in, it is highlighted.

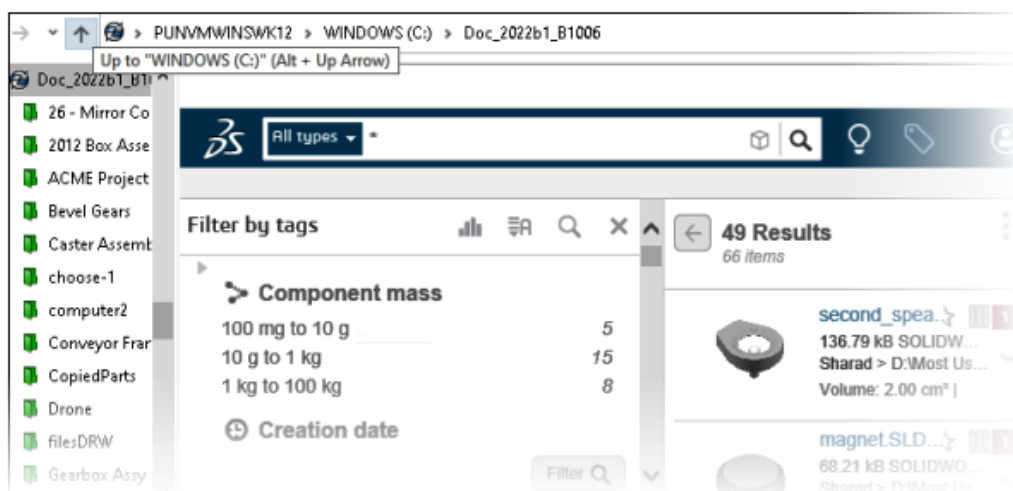
Viewing Configurations for All Versions in the Where Used Tab



You can view configurations of part or assembly files when you select **All Versions** in the Where Used tab.

The list contains all configurations across all versions of the selected file to which you have access permission. From the list, select a **Configuration** to view its references.

Using EXALEAD OnePart Search in SOLIDWORKS PDM



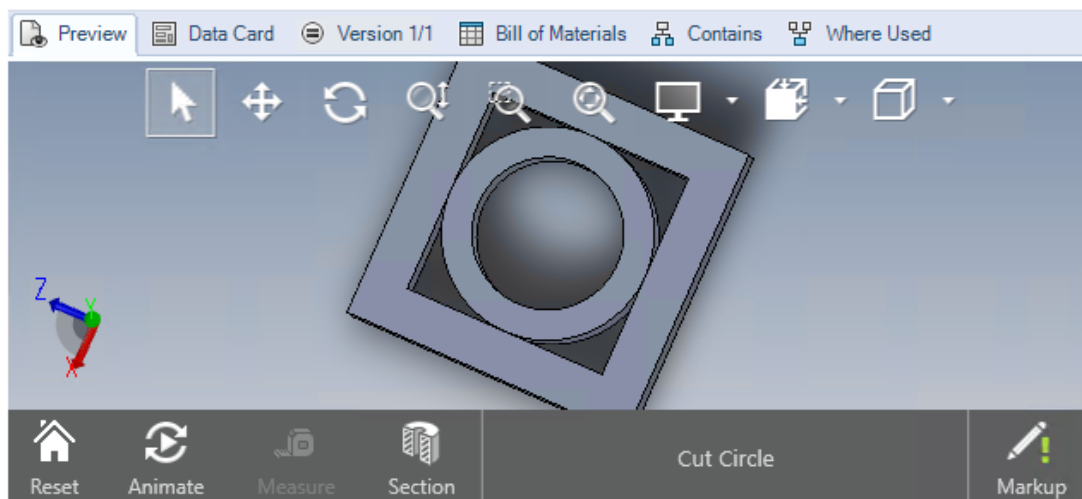
EXALEAD OnePart Search is now integrated in SOLIDWORKS PDM.

You must configure EXALEAD® OnePart in the Administration tool. Right-click **EXALEAD OnePart** and click **Open**. In the EXALEAD OnePart dialog box, enter **URL**, **Connection name**, and select **Protocol**.


- This functionality is available only in SOLIDWORKS PDM Professional.
- This requires an EXALEAD OnePart license. The SOLIDWORKS PDM Installation package does not include this license and you need to obtain it separately. Contact your SOLIDWORKS Value Added Reseller for more information.
- You must have **File vault management** administrative permission.

To perform a search in the SOLIDWORKS PDM File Explorer, click  on the SOLIDWORKS PDM menu bar, and select **EXALEAD OnePart Search**. The EXALEAD OnePart Search user interface displays in an embedded browser control in the vault view.

SOLIDWORKS eDrawings Viewer in the Preview Tab



All of the view functions in eDrawings® Viewer are available in the Preview tab of SOLIDWORKS PDM File Explorer.

Option	Description
View SOLIDWORKS eDrawings toolbar	Click Display > Options > Show full UI in SOLIDWORKS preview .
View markup associated to a file	Displays a markup  if the selected file contains a markup.

Option	Description
View eDrawings preview for SOLIDWORKS files	Click Display > Options > Show bitmap for SOLIDWORKS files . On the Preview tab, click Load Preview . Previously, you had to click the thumbnail preview image to access the eDrawings preview.

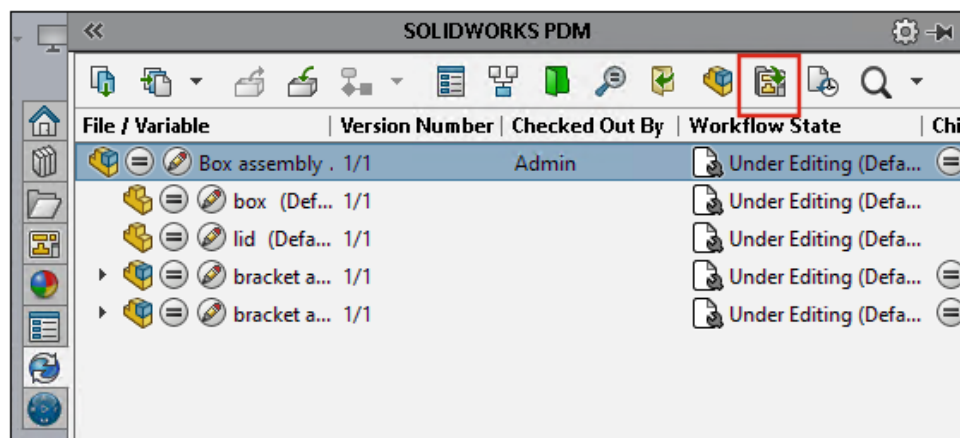
Support for Neutral CAD File Formats in eDrawings Web Preview

In SOLIDWORKS PDM Web2, you can open and view neutral file formats for eDrawings WebGL.

Support is available for the following file formats:

- STEP (.step, .stp)
- IGES (.iges, .igs)
- Parasolid (.X_B, .X_T, .XMT, .XMT_TXT)
- JT (.JT)
- Acis Sat (.SAT, .SAB)

Opening a Drawing from the SOLIDWORKS PDM Add-In



In the SOLIDWORKS PDM Add-in, you can open a drawing of a SOLIDWORKS part or assembly file.

To open a drawing, click  on the SOLIDWORKS PDM task pane or right-click the part or assembly and click **Open Drawing**.

The drawings may not be locally cached, can have a different name from the part or assembly file, and can exist in a different folder.

SOLIDWORKS PDM Performance Improvements

With SOLIDWORKS PDM 2022, you can experience improved performance of many file-based operations.

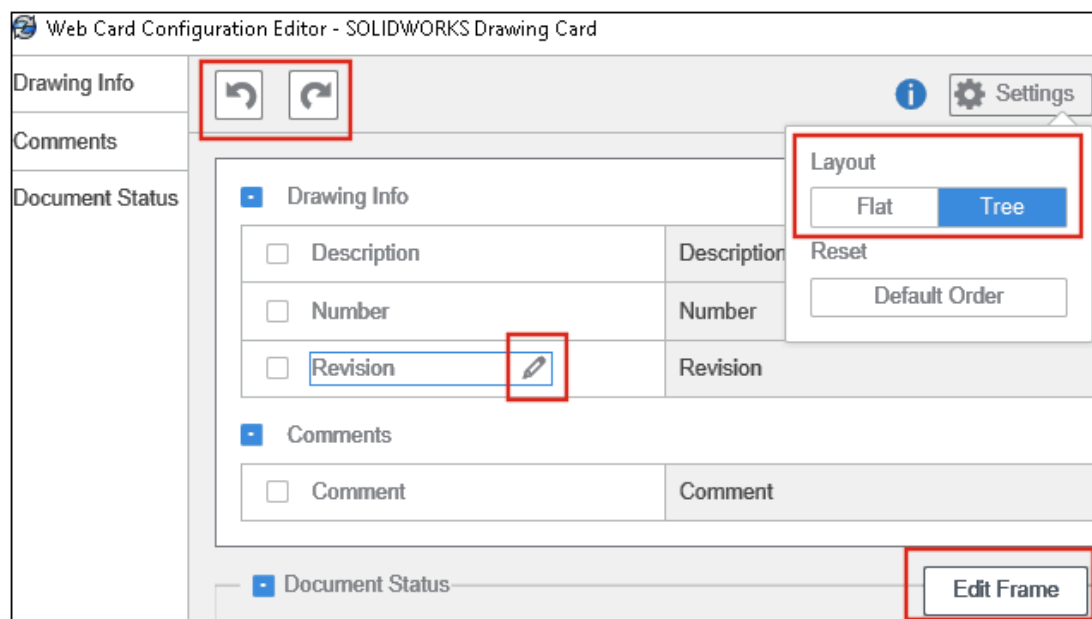
You can perform the following actions faster for database servers with high latency:

- Open files
- Display the Save As dialog box
- Copy Tree
- Create a document in SOLIDWORKS

SOLIDWORKS PDM has improved performance for the following:

- Saving a data card with a large number of file extensions is faster by 15% to 60%.
- Checking in a drawing with a large SOLIDWORKS bill of materials (BOM) is significantly quicker.
- Displaying files in the Where Used tab with the **Show All** option and additional custom columns is many times faster for certain vaults.
- Displaying the Transition dialog box for dynamic notifications is quicker.
- Loading a Web2 preview is between 1.5 and 2 times faster for large models.

Web2 Data Cards



SOLIDWORKS PDM offers more ways to configure the layout of the data card for Web2 and improve the readability of your data.

Available in SOLIDWORKS PDM Professional only.

In the Administration tool, in the Card Editor window, click **Configure card for web** on the Card Properties pane.

You can control the visibility of data card control for Web2. In the Card Editor window, in the right pane, under **Flags**, select **Show in web card**. This lists the data card control in the web configuration editor and displays it in the data card for Web2.

- Available only for file cards.
- Available only for the following data card controls:
 - **Checkbox**
 - **Combobox Dropdown**
 - **Combobox Droplist**
 - **Combobox Simple**
 - **Edit**
 - **List**
 - **Date Field**
 - **Radio Button**

In the web configuration editor of data cards, you can:

- Click **Settings** and specify the layout of the data card controls as **Flat** or **Tree**.
- Edit labels and change the order of controls.

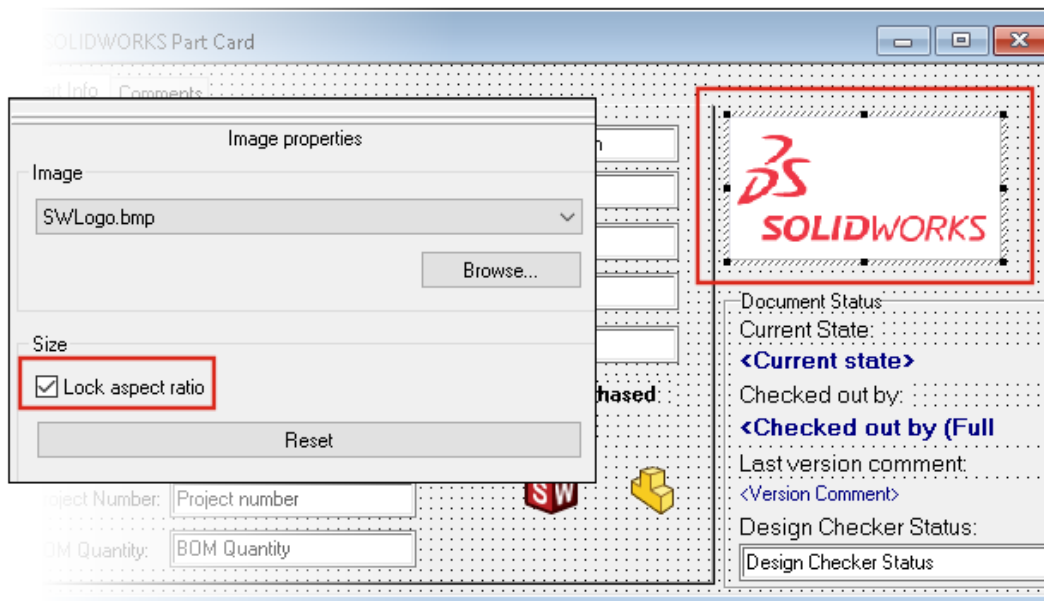
You cannot add or remove controls from tabs. To do so, use the main card editor.

- Add controls in a frame in the **Tree** layout and define their order of appearance.

The user interface of Web2 data card has the following improvements:

- Navigation control for **Tree** layout
- Date picker to specify DATE type controls
- Multiline box to enter descriptions
- Radio button and check box controls

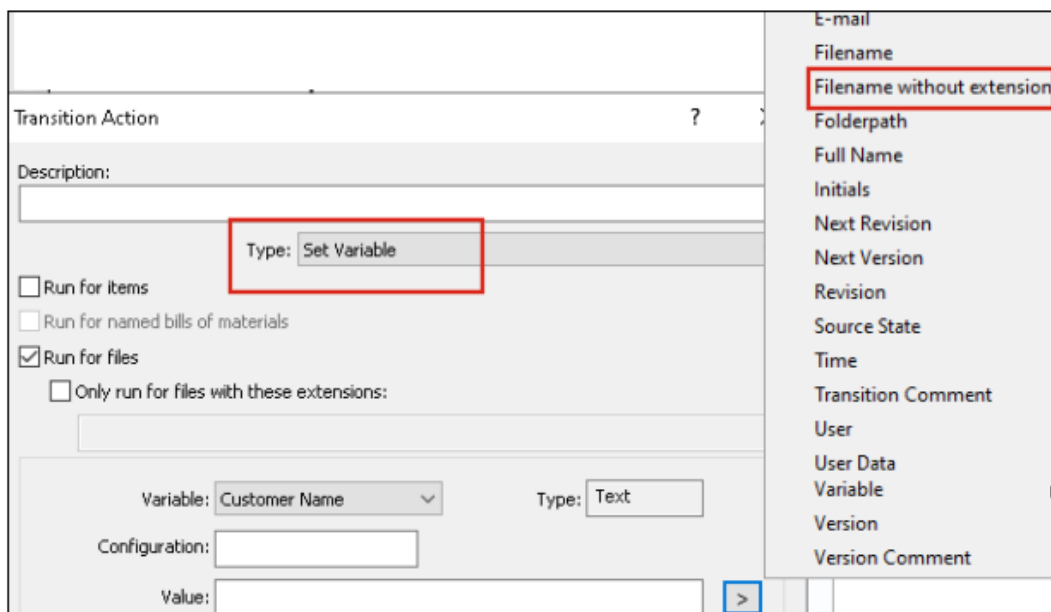
Resizing an Image in a Data Card



In the Administration tool, you can resize an image on a data card by dragging the control handles.

In the Card Editor, in the **Image properties** pane, select **Lock aspect ratio** to maintain the image aspect ratio. Click **Reset** to restore the image to its original size.

Other SOLIDWORKS PDM Enhancements

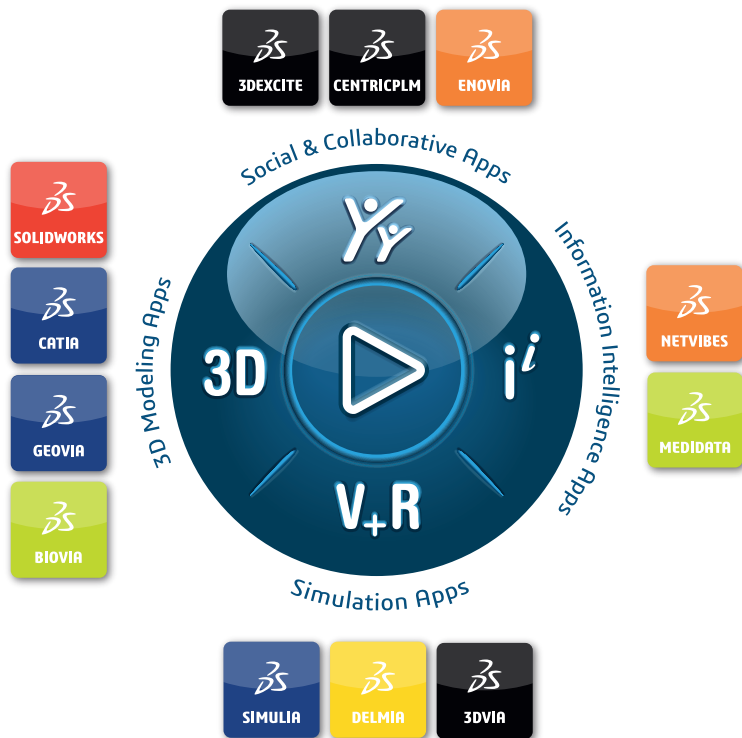


SOLIDWORKS PDM 2022 has new APIs and other improvements.

- You can save a card that has more than 2000 characters in an alias in an input formula.
- In the Transition Action dialog box, when you specify **Type** as **Set Variable**, you can define the value of the selected variable as **Filename without extension**.

SOLIDWORKS PDM APIs are available to:

- Define **Next counter value** for serial numbers in the Administration tool.
- Add or modify some of the user settings.
- Edit the name of a named BOM.
- Select files to destroy from the deleted files.



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Europe/Middle East/Africa

Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific

Dassault Systèmes K.K.
ThinkPark Tower
2-1-1 Osaki, Shinagawa-ku,
Tokyo 141-6020
Japan

Americas

Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA