WHAT'S NEW
SOLIDWORKS PDM 2020
Contents

Legal Notices........................................................................................................................................3

1 SOLIDWORKS PDM......................................................................................................................6

Defining Child Reference State Conditions ....................................................................................6
Logging Out from Windows Explorer................................................................................................7
Performance Improvements in Browsing ............................................................................................7
Performance Improvements in the SOLIDWORKS PDM Add-in .....................................................8
Performance Improvements ..............................................................................................................8
Reordering Columns in Search Results .............................................................................................8
Resizable Dialog Boxes ..................................................................................................................9
Scaling the Paper Size in Print Task................................................................................................9

Search User Interface .........................................................................................................................

Customizable Variables - New Variable List Dialog Box .................................................................10
Using Quick Search.......................................................................................................................11
Searching in Multiple Variables .....................................................................................................12
Creating a Search Card to Search Within Multiple Variables .........................................................14

Using AND, OR, and NOT Operators in Search ..............................................................................14
Warning Users When Transitioning Files ......................................................................................17
Web2 Enhancements .......................................................................................................................17

Bill of Materials Tab in Web2 .......................................................................................................17
History Tab.......................................................................................................................................20
List of Files to Download in Web2 ................................................................................................21
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This chapter includes the following topics:

- **Defining Child Reference State Conditions**
- **Logging Out from Windows Explorer**
- **Performance Improvements in Browsing**
- **Performance Improvements in the SOLIDWORKS PDM Add-in**
- **Performance Improvements**
- **Reordering Columns in Search Results**
- **Resizable Dialog Boxes**
- ** Scaling the Paper Size in Print Task**
- **Search User Interface**
- **Searching in Multiple Variables**
- **Using AND, OR, and NOT Operators in Search**
- **Warning Users When Transitioning Files**
- **Web2 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 product.

## Defining Child Reference State Conditions

You can define conditions on the state of immediate child references to control the parent file transition.

When you define conditions, you can transition the parent file if:

- Its child references are not selected for transitioning with the parent file and are already in a state that meets the defined condition.
- Its child references are selected for transitioning with the parent file and, after transition, are in a state that meets the defined condition.
- The warning, **Child references do not meet the state conditions**, is not set to blocking.
By default, when this warning is not set to blocking, only those parent files that fulfill the child reference state condition are selected for transition.

To change the state of the parent file, in the Do Transition dialog box, select Change state.

The warning is set to blocking by default for new and upgraded users.

This helps avoid situations such as approving an assembly when the referenced parts are not approved or when the assembly uses obsolete parts.

**To define child reference state conditions:**

1. In the Administration tool, click a workflow transition.
2. In the transition's Properties dialog box, in the Conditions tab:
   a) Select <Click here to add a condition>.
   b) In the conditions list, select Child Reference State.
   c) Expand Comparison and select a comparison operator.
   d) Under Value, select the state if you selected the **Text Equal To** or **Text Not Equal To** comparison operator.

   For the **Text Compare** operator, enter the value in the workflow name.state name format. You can also use wildcard characters to specify the pattern.

   e) Under **Configuration / Path**, enter the wildcard characters to specify the file name or file path pattern.

   Leave **Configuration / Path** blank to apply the condition to all immediate child reference files.

3. Click **OK** and save the workflow.

**Logging Out from Windows Explorer**

You can see the name of the logged in user in the File Explorer and log out from Windows® Explorer.

To see the name of the logged in user, hover over 🌐.

**To log out from Windows Explorer:**

1. Click 🌐.
2. Click Log Out.

**Performance Improvements in Browsing**

SOLIDWORKS PDM loads the data in the background, which improves the browsing responsiveness.

Browsing folders that have a large number of files is faster due to:

- Faster database queries for custom columns.
• Background loading and incremental loading of the data.

When you double-click a folder, SOLIDWORKS PDM loads data in this order:
1. All subfolders synchronously. You can browse subfolders while the remaining data loads in the folder.
2. Files with standard columns in the file list.
3. Information in custom columns. You can add more custom columns and maintain the same browsing speed.

When you select a file and switch between the Bill of Materials, Contains, and Where Used tabs, SOLIDWORKS PDM loads the data in the tabs in the background. When you switch to a different file or folder, the background loading stops and loading of the new file or folder starts.

Performance improves significantly for folders with a large number of files or for database servers with high latency.

Performance Improvements in the SOLIDWORKS PDM Add-in

The SOLIDWORKS PDM task pane tree refreshes faster and the commands in the SOLIDWORKS PDM toolbar are correctly enabled in the task pane instantaneously when you select a file.
• Data in the task pane tree loads in the background.
• When you select a file in the task pane tree, calls to the database are eliminated.

In the FeatureManager design tree or in the graphics area, when you right-click a file and select SOLIDWORKS PDM, the menus are correctly enabled.

When you select a file in the graphics area or in the FeatureManager design tree, the file listed in task pane tree is selected and the commands in the SOLIDWORKS PDM toolbar are correctly enabled.

Performance Improvements

You can perform the following actions faster:
• Logging into the vault when you set a large number of files or folders for automatic caching.
• Viewing the System History of a vault that includes a large number of items.
• Opening a file from a folder that includes a large number of files.
• Creating a new file or subfolder in a folder that contains large number of files.

Reordering Columns in Search Results

You can reorder the columns in the search results of the embedded search and the Search tool. SOLIDWORKS PDM saves the changes to the column ordering.
Resizable Dialog Boxes

The following dialog boxes are now resizable:

- Edit Variable
- Serial Number - New Serial Number
- Indexing Settings
- Cold Storage Schema
- Dialog boxes in Data Import/Export node such as XML Variable Alias Sets, Export Rule, and Import Rule
- File Type Properties
- Customizable Columns
- Dialog boxes in Bill of Materials node such as BOM, Item BOM, Weldment BOM, and Weldment Cut List
- Edit Template
- Dialog boxes in Dispatch such as Administrate Actions and Properties

Scaling the Paper Size in Print Task

When configuring the Print task, you can select Scale to fit or Scale. When you select Scale, you can select Allow the user to change the scale to let users change the scale at run time.

Search User Interface

You can perform a search with the quick search box in the File Explorer without setting up a search card.

The quick search box is available in the File Explorer as a part of the SOLIDWORKS PDM menu bar.

With the quick search box, you can:

- Define your search string using sample text.
- Select a string from a list of the previous five searches when you click in the quick search box.
- Use AND, OR, and NOT operators in the search string.
- Click in the quick search box, type, and select any string from the list of previously matching searches.
- Use the following keys:

<table>
<thead>
<tr>
<th>Key Combination</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ctrl + F</td>
<td>Selects the search field</td>
</tr>
<tr>
<td>Arrow keys + Enter</td>
<td>Selects the search string</td>
</tr>
<tr>
<td>Enter</td>
<td>Starts the search</td>
</tr>
<tr>
<td>Esc</td>
<td>Closes the search</td>
</tr>
</tbody>
</table>
Customizable Variables - New Variable List Dialog Box

You can use this dialog box to specify the variables that you can search from the quick search for specific users or groups.

To display Customizable Variables dialog box:
1. In the Administration tool, expand Lists.
2. Right-click Quick Search Variable List and click New List.

Name
Enter the name of the new variable list.

Variables

<table>
<thead>
<tr>
<th>Add</th>
<th>Adds the administrator-defined variables.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>You can add up to five variables.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Delete</th>
<th>Deletes the selected variable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up and down arrows</td>
<td>Moves the listed variables up and down.</td>
</tr>
</tbody>
</table>

Selected Variable

<table>
<thead>
<tr>
<th>Variable</th>
<th>Displays a selected variable and lets you select a variable to replace the selected variable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Displays the name of the selected variable.</td>
</tr>
</tbody>
</table>

Users
Lists users and lets you select the users who can select the variables in quick search.

Groups
Lists groups and lets you select the groups whose members can select the variables in quick search.
Using Quick Search

You can search faster using the quick search. The quick search box is available in the SOLIDWORKS PDM menu bar.

To use quick search:
1. In the File Explorer, navigate to the vault or folder to search.
2. Press Ctrl + F to access the quick search box.
3. Click the list arrow in the quick search box to specify the search settings.

<table>
<thead>
<tr>
<th>Search For</th>
</tr>
</thead>
<tbody>
<tr>
<td>v File/Folder Name</td>
</tr>
<tr>
<td>Keyword:</td>
</tr>
<tr>
<td>Description</td>
</tr>
<tr>
<td>FileName</td>
</tr>
<tr>
<td>v Comment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Search In</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Folder</td>
</tr>
<tr>
<td>Current Folder &amp; Subfolders</td>
</tr>
<tr>
<td>v All Folders</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Search Variables In</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latest Version</td>
</tr>
<tr>
<td>All Versions</td>
</tr>
</tbody>
</table>
4. From **Search for**, **Search in**, and **Search variables in**, select the appropriate search categories.

<table>
<thead>
<tr>
<th>Search for</th>
<th>File/Folder name</th>
<th>Searches for the names of files or folders that match the search string.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Administrator-defined variables</td>
<td>A list of administrator-defined variables. Searches for the value of selected variables in the data card fields.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Search in</th>
<th>Current Folder</th>
<th>Searches for the string in the current folder.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current Folder &amp; Subfolders</td>
<td>Searches for the string in the current folder and its subfolders.</td>
</tr>
<tr>
<td></td>
<td>All Folders</td>
<td>Searches for the string in all folders.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Search variables in</th>
<th>Latest version</th>
<th>Limits the search to the latest version.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All versions</td>
<td>Searches for the string in all versions.</td>
</tr>
</tbody>
</table>

The **Latest version** and **All versions** options are available based on the following settings in the Administration tool:

- Whether variables are selected in the Quick Search Variable Lists or not.
- Selection of **Always work with latest version of files**.

5. In the quick search box, enter the search strings and press **Enter**. The search results appear in the same window.

6. Click **Close Search** to clear the search results and to return the file list.

### Searching in Multiple Variables

You can search for a value in multiple selected variables using the Edit-box control in a search card.

In the File Explorer, when you search for a value, SOLIDWORKS PDM considers OR as the implicit operator, and returns a match if it exists in any variable value.

**To specify a multiple-variable edit-box control on the search card:**

In the Card Editor, click **Edit** (Controls toolbar), and click in the card to place the edit box.
Multi-variable

Lets you select multiple variables from the existing variables defined in the vault.

When you select the variables, the edit box displays the variables separated by | in alphanumerical order.

Default Values

Lets you define the variable values. By default, SOLIDWORKS PDM considers the OR condition for the default values. The values can be the same or unique.

At run time, when you edit default values with Multi-variable selected, the default values in the single variable edit box (for example, in the Cards tab) are not updated automatically.
Creating a Search Card to Search Within Multiple Variables

You can create a search card that lets you search for values in multiple variables when you open it in the File Explorer.

To create a search card to search within multiple variables:
1. Create a search card.
2. Add controls to the card.
3. In the Card Editor, click Edit (Controls toolbar).
4. Click in the card to place the edit box.
5. Select Multi-variable.
6. From the list, select the variables to include.
7. Select the appropriate flags.
8. Click Default Values and select the variables you selected in step 6.
9. Assign values to the variables.
   The default values appear in the card controls.
10. Save the card.

Using AND, OR, and NOT Operators in Search

SOLIDWORKS PDM supports AND, OR, and NOT operators in input search criteria in edit-box type fields on search cards.

You can use these search operators in any search card, Web2 search, the SOLIDWORKS PDM Search tool, and quick search.

Rules:
- Search strings are case-insensitive.
- Operators are case-sensitive and must be capitalized.
- For variables of a numeric or date type, the valid operators are: =, ! =, <, <=, >, >=.
- Rules for using escape symbol:
**Search for String with** | **Input String**
--- | ---
Double quotation marks | String with an escape symbol \.
For example, to search for "speaker", enter the string as "speaker"

Double quotation marks that are a part of an explicit search | String with an escape symbol \. For example, to search for 3" pipe, enter the string as "3" pipe".

Numeric constant followed by " | String with or without escape symbol. For example, to search for a length value such as 3", enter the search string as 3" or 3".

- In case of multiple operators used in a search, SOLIDWORKS PDM evaluates the search operators in this order: (), NOT, AND, and OR.
- You can use AND, OR, and NOT search operators or their equivalent symbols &, |, ! respectively.
- You can search for text, integer number, float, and date type data.
- You can use the AND and OR operators with or without the :. For example, for AND operator, use AND, AND:, &, or &:
- The search field supports * and ? as wildcard characters.
- You can use = to search for an exact string. For example, to search for a Tools string, enter the search string as =Tools.
- In case of a string that contains more than one word, you can use "" to search for the string in the same order of words. For example, to search for pipe tools, enter "pipe tools".

When you upgrade to SOLIDWORKS PDM 2020, the previously saved searches are upgraded to follow the new search rules while maintaining the previous behavior and search results.

**AND (&) Operator**

Searches for results that include both the term before and the term after the operator.

<table>
<thead>
<tr>
<th>Search String Examples</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>term1 AND term2</td>
<td>Returns the match that includes term1 and term2. Terms may appear in any order in the results.</td>
</tr>
<tr>
<td>TERM1 &amp; TERM2</td>
<td></td>
</tr>
<tr>
<td>AND: term1 term2</td>
<td>Examples of valid search results:</td>
</tr>
<tr>
<td>&amp;: term1 term2</td>
<td>• term1 term2</td>
</tr>
<tr>
<td></td>
<td>• term2 term1</td>
</tr>
<tr>
<td></td>
<td>• term3 term1 term2</td>
</tr>
<tr>
<td>Search String Examples</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| "(*)" term1 term2 "(*" OR "(*)" term1 term2 | AND is the implicit operator for the SPACE character. Returns the match that is enclosed in the parentheses and that contains term1 and term2. Examples of valid search results:  
  - (term1 term2)  
  - (term2 term1 term3) |
| "(*)" "term1 term2" "(*)" OR "(*)" "term1 term2" | AND is the implicit operator for the SPACE character. Returns the match that is enclosed in the parentheses and that contains the string term1 term2. Examples of valid search results:  
  - (term1 term2)  
  - (term3 term1 term2 term4) |

**OR (|) Operator**

Searches for results that include the term before or after the operator or both.

<table>
<thead>
<tr>
<th>Search String Examples</th>
<th>Description</th>
</tr>
</thead>
</table>
| term1 OR term2 | Returns the match that includes either or both term1 and term2. Examples of valid search results:  
  - term1  
  - term2  
  - term2 term1 |
| TERM1 | | TERM2 |  
| OR: term1 term2 |  
| | term1 term2 |  
| | OR: term1 OR term2 | Returns the match that is enclosed in the parentheses and that includes either term1 or term2 or both. Examples of valid search results:  
  - (term1)  
  - (term3 term2)  
  - (term2 term1 term4) |

**NOT (!) Operator**

Searches for results that do not include the term after the operator.
Warning Users When Transitioning Files

For transitions that include dynamic notifications, you get a warning if you do not select any user or group to receive a notification.

Web2 Enhancements

When you drag a folder to the file list, the Check In File Structure dialog box opens automatically.

In the Details section of the data card, in Comment, you can see version comments.

Bill of Materials Tab in Web2

SOLIDWORKS PDM Web2 lets you see a read-only view of the Bill of Materials.

In the large screen layout, the Bill of Materials tab is available in the file detail view. The supported BOM types are:

- Computed BOMs
- Weldment BOMs
- Weldment cut lists
- SOLIDWORKS BOMs

In the small screen layout, the Bill of Materials tab is available from the ellipsis menu. The tab contains two customizable columns.
Bill of Materials Tab in Web2

The Bill Of Materials tab displays the bill of materials of SOLIDWORKS PDM items or of a SOLIDWORKS assembly, drawing, part, or weldment part.

To display the Bill of Materials tab:

In the large screen layout, click the file name and click the Bill Of Materials tab.

---

Bill of Materials Tab

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Expand or collapse</td>
<td>Expands or collapses the indented BOMs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Table view</td>
<td>BOM</td>
<td>Displays the selected item for <em>Indented</em> or <em>Top Level Only</em>.</td>
<td></td>
</tr>
</tbody>
</table>
Displays the name of the selected BOM at the top with the list of other BOMs and options based on the selected BOM.

### Selected BOM | List of BOMs | View option and reference version
--- | --- | ---
BOM | Computed BOM, Weldment BOM, Weldment cut list, SOLIDWORKS BOM | Indented, Parts Only, Top Level Only, As Built, Latest
Weldment BOM or Weldment cut list | Computed BOM, Weldment BOM, Weldment cut list | -
SOLIDWORKS BOM | Computed BOM, SOLIDWORKS BOM | -

Displays the name of the selected configuration or sheet for Computed BOM, Weldment cut list, and Weldment BOM.

**Actions**

- Change State
- Check Out
- Download
- Delete

---

**Bill of Materials Tab - Small Screen Layout**

The Bill of Materials tab contains two columns.

To display the Bill of Materials tab:

In the file detail view, click the ellipsis, and click **Bill Of Materials**.
History Tab

SOLIDWORKS PDM Web2 lets you see a read-only view of the history.

In the large screen layout, the History tab is available in the file detail view. It displays the table view that includes the Event column and customizable columns:

- **Version**
- **User**
- **Date**
- **Comment**
Click 🍃 and select or clear the columns to display.

In the small screen layout, to access the History tab, in the file detail view, click the ellipsis. The History tab has:

- A list of events in descending order of date and time.
- A separate row for each event.
- Information such as **Version, User, Date**, and **Comment** in each row for each event.
- A common control to expand or collapse all rows.
- Individual controls for each row.

**List of Files to Download in Web2**

SOLIDWORKS PDM Web2 displays the list of files to download.

In the large screen layout, the Download with References dialog box displays the collapsible **Settings** option and the list of files to download.
The file list displays the files based on these settings:

- **Version**
  - Latest
  - Referenced

- **Preserve relative paths**

- **Include subfolders**
- **Include drawing**
- **Include simulation**

The file list includes customizable columns such as **State**, **Version**, **Size**, and **Path**. Click ⚙ and select or clear the columns to display.
In the small screen layout, the Download with References dialog box displays the list of files to download in one column.

<table>
<thead>
<tr>
<th>Cancel</th>
<th>Download</th>
</tr>
</thead>
<tbody>
<tr>
<td>Settings</td>
<td></td>
</tr>
</tbody>
</table>

- Speaker-Dual.SLDASM
  - v2 / 2, Approved (0 days)
- Magnet.SLDPR
  - v1 / 1, Under Editing (0 days)
- Membrane.SLDPR
  - v1 / 1, Under Editing (0 days)
- OuterRing.SLDPR
  - v1 / 1, Under Editing (0 days)
- Second Speaker.SLDPR
  - v1 / 1, Under Editing (0 days)
- Speaker Frame.SLDPR
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