



ControlSave

version 5.0

Application for Solid Edge that speeds up and extends the operations normally performed with Draft and 3D files including:

- Check the association between Draft file and linked 3D file.
- Automatically save a copy of the active Draft file when you save it, in a previously chosen path in one or more formats (.pdf, .dwg etc).
- From the active file Quickly open or activate its associated Draft or 3D file.
- In Assembly files, open or directly activate the Draft file associated with the component selected in PathFinder.

Load one or more files into a list to perform multiple actions on them. If the active file is an Assembly you can choose whether to load all its components or only the top-level ones selected in PathFinder.

It is possible to decide how much the search for its sub-components should be lower:

- All components
- Basic components
- Level 1 Components
- 1st/2nd level components
- 1st/2nd/3rd level components

- Print and/or save the active file or selected files from a list or directory, in the various formats available in Solid Edge.

Start :

When the application starts, it automatically connects to the active Solid Edge session or waits for a new session to be opened. The successful connection, together with the active state of the '3D Control' and 'Auto Save' functions, is indicated by the application icon present in the Windows taskbar. During installation, you can decide whether the application should start when the computer is turned on.

In the taskbar you can display the program icon that allows you to open the main menu (in full mode if you press the right mouse button or minimized if you press the left mouse button). The icon image varies depending on the status of the connection with Solid Edge, the activation of the file control and automatic saving functions and the visibility status of the main bar..

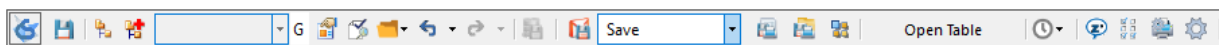
Please note

All file operations and controls require that the Draft file shares the same name and path as the linked 3D file.

It is also possible to obtain revision control of drawings (Draft files), if the file name is extended with the revision value.

Main bar

Allows you to access all the available options of the application (with Solid Edge minimized the bar is always hidden).



- Logo
Allows the bar to be moved. Displays the path or name of the active file. Opens the main menu (full by pressing the right mouse button or minimized by pressing the middle mouse button). If the connection timer is disabled, recognizable by the clearer image, allows you to verify the connection with Solid Edge.



- Opens the Form for managing the saving or copying of the active file, or selected in the PathFinder.



- Enables PathFinder actions. With this flag active and the mouse positioned over this icon, you can scroll the PathFinder selection over all its components of the main level. In addition, the filter property selector and the selector for switching to the linked file will no longer refer to the active file, but to the one selected in the PathFinder.



- PathFinder doctor
Allows you to suppress corrupted assembly relations. You can save a text file that contains information about the changes you made.



- Filter Properties / Filter Groups
View and/or change the value assigned to the property that has been associated with the filter.
An additional property can also be used to divide filters into groups. Using this option adds a second selector to the bar, or if in 'Group' mode, a button to choose which of the two selectors to display.



- File Properties
Opens the 'File Properties' form for defining the properties of the active file.



- If it finds a Draft file associated with the file selected in PathFinder, it opens it, or activates it if it is already open.



- Open file path
Opens a new File Explorer session on the folder containing the file.



- Undo
Allows you to scroll backwards through previously activated files.



- Redo
Allows you to scroll forward through previously recovered files with Undo.



- Save in Archive mode
Saves the active table in archive mode in the selected formats. Essential for making the first save in autosave mode with the 'Only if file saved' flag active.



- Save in Send mode.
Saves the active Draft or 3D file in Send mode to the selected formats.



- Action Selector
Select the actions to perform: Save, Print, or Save and Print.



- Actions on Lists...
Opens the Draft and 3D file management form from list.



- Save and Print for Directory...
Opens the form for saving/printing Draft and 3D files filtered by directory.



- **Save / Print in Series...**
It allows the creation of new files derived from an active Part or Sheet metal file with modified characteristics. Furthermore, if the Draft of the active file exists, it is also possible to generate the relative Draft for the new files.



- **Linked file**
Active file information area, indicates the presence of the linked Draft or 3D file, if present allows you to activate it.



- **Recent Files**
Allows you to store the paths of currently open files so you can quickly reload them the next time you open Solid Edge.



- **Suspension**
It allows you to break the connection with Solid Edge events, if the workload to be supported is very heavy it avoids overloading it further.



- **Temporary settings...**
Opens the Temporary Settings form, changes made here will only have a temporary value because they will not be saved when the application is closed.



- **Print Settings...**
Opens the Print Settings form for choosing the printer and its print settings.

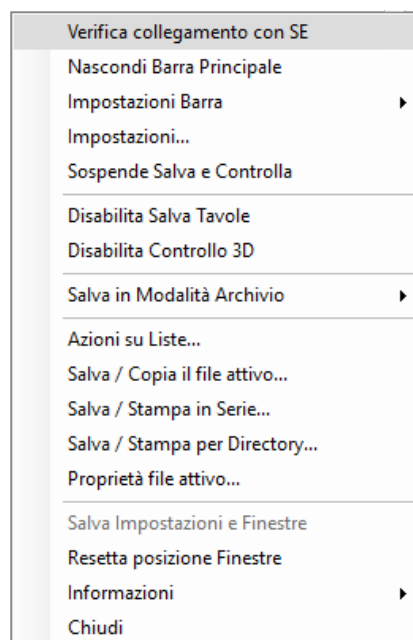


- **Settings...**
Opens the Settings form.

Main menu

Can be called in extended or reduced mode from the main bar logo or from the icon in the Windows taskbar. Reduced mode can be obtained by pressing the middle or left mouse button, depending on whether called from the main bar logo or from the Windows taskbar icon.

- **Verifying linkage with SE**
Visible only from the Windows taskbar if the SE connection timer is disabled.
Verifies the connection with Solid Edge.
- **Hide Main Bar**
Manages the display of the main toolbar (with Solid Edge minimized the toolbar is always hidden).
- **Settings Bar**
Opens a submenu that allows you to select which components to make visible in the main bar.
- **Settings...**
Opens the Settings form.
- **Suspends Save and Check / Restore Save and Check**
-
It allows you to enable/disable both the automatic saving of Draft files and the control of Draft files with the 3D linked, it breaks the connection with the Solid Edge events.
If the workload to be supported is very heavy, avoid overloading it further.
- **Disable Save Tables / Enable Save Tables**
Allows you to enable/disable automatic saving of Draft files.
- **Disable 3D Control / Enable 3D Control**
Allows you to enable/disable Draft File Control with 3D linked.



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- *Save in Archive Mode / Save in Send Mode*
Allows you to force the use of the 'Save on Send' mode for automatic saving of Draft files.
-
- *Actions on List...*
Opens the form for managing Draft and 3D files from the list.
- *Save / Copy active file...*
Opens the Form for managing the saving or copying of the active file, or selected in the PathFinder.
- *Save / Print in Series...*
It allows the creation of new files derived from an active Part or Sheet metal file with modified characteristics. Furthermore, if the Draft of the active file exists, it is also possible to generate the relative Draft for the new files.
- *Save / Print by Directory...*
Opens the form for saving/printing Draft and 3D files filtered by directory.
- *Active File Properties...*
Opens the 'File Properties' form for defining the properties of the active file.
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- *Save Settings and Windows*
Save general settings along with window positions and sizes.
- *Reset Windows Position*
Resets all windows to their initial positions, if a window is open off-screen you may need to restart the application.
- *Information...*
About ControlSave.
- *Close*
Closes the application.

3D Control Function

Reports a mismatch between the names of the Draft (2D) file and the linked 3D file, based on the modes chosen in the 3D Control section of the Settings Form.

If the name match is met and the Draft file name includes the extension 'revision', any warning will indicate the mismatch of the included extension with the revision value present in the 3D file properties set to contain the revision value.

The report can be saved in a Draft file property or communicated by displaying an alert form.

Auto Save Function (Archive Mode)

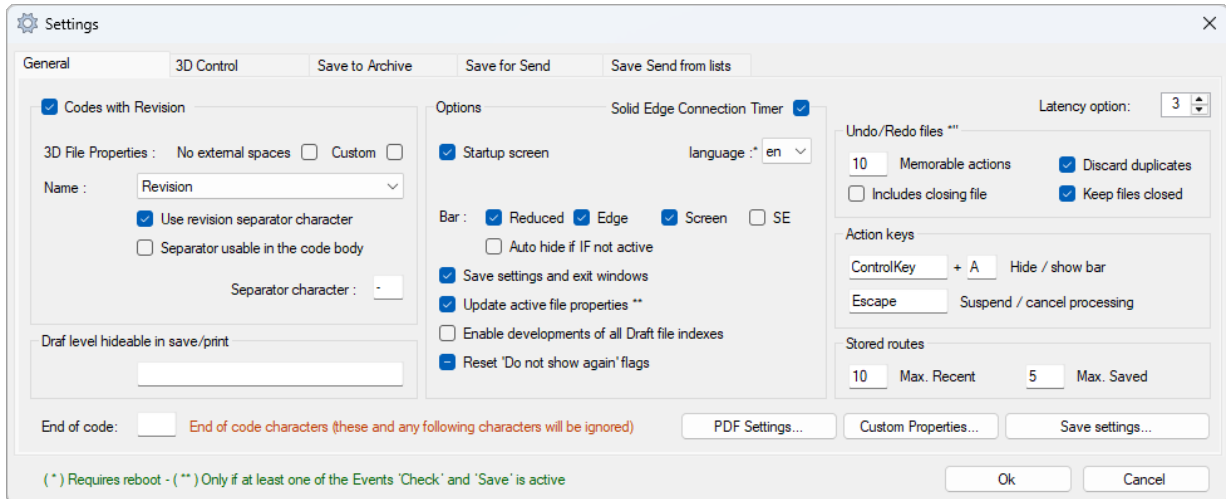
Allows each time the active Draft file is saved, a copy of it will be saved in the path and formats chosen in the Save for Archive section of the Settings Form.

Settings Form

When using it for the first time, it is advisable to open the settings panel to set customizations according to your needs:

The settings form can be accessed by clicking on the application icon in the Windows taskbar and selecting 'Settings...' from the menu that appears. Alternatively, from the main application bar by clicking the button with the 'gear' image.

Section : General



Codes with Revision

Enable/disable the use of the revision extension in Draft files.

Allows you to select the Standard or Custom 3D file property, where to read the revision from, whether to discard trailing spaces, whether to use the revision separator character and whether to allow the use of the latter in the code body.

To get revision control, the Draft file name must be extended with a separator character (optional) and the value of the assigned revision in the linked 3D file property.

Example:

TEST.par = TEST.dft

with revision 01

TEST.par = TEST-01.dft (with separator character '-')

Draft level hideable in save/print

Allows you to indicate the name of a layer in the Draft file that will be hidden when saving or printing.

Options

- Solid Edge Connection Timer
With the connection timer disabled, some operations will be cancelled, including checking for a possible loss of connection with SE. With 'latency option' you can choose how often to perform the check.
- Startup screen
Using the Start Screen.
- language
Select the application language.
- Mini Bar - Bar with Border - Screen - SE
They set various options of the main bar: the size, the visibility of the edge, the positioning limits and the positioning related to the Solid Edge application.
- Auto-hide if Solid Edge is not active

Allows you to hide the main toolbar and warning form when the Solid Edge application loses the active application status.

- Save settings and exit windows
Allows you to save the size, position and settings of windows when you exit the application.
- Update active file properties.
With the Properties form open, update the displayed properties as the active file changes.
- Enable developments of all Draft file indexes
If the draft file contains multiple references to '.psm' files (sheet metal) it allows you to obtain the development of all of them.
- Reset 'Do not show again' flags
Allows you to reset all disabled "Do not show later" notices.

Latency options

Sets the delay of the application's interactions with Solid Edge, values from 1 minimum delay to 5 maximum delay are allowed.

Undo/Redo files

Allows you to set the number of actions to store on activated files, to get the ability to go back or forward through activated files:

- Discard any duplicates from the list.
- Keep closed files in the list.
- Keep the list even if Solid Edge no longer has any open files.

Action keys

Button that allows you to hide/display the main bar.

Button that allows you to suspend/interrupt long operations.

Stored routes

Maximum number of storable, recent and saved routes.

End of Code

Character that limits the part of the file name to use. The character and any following text will be ignored in the control with the 3D file name.

N.B. Using this character compromises the use of revision control.

PDF Settings...

Apri il relativo Form che consentirà di forzare alcune impostazioni relative ai file PDF.

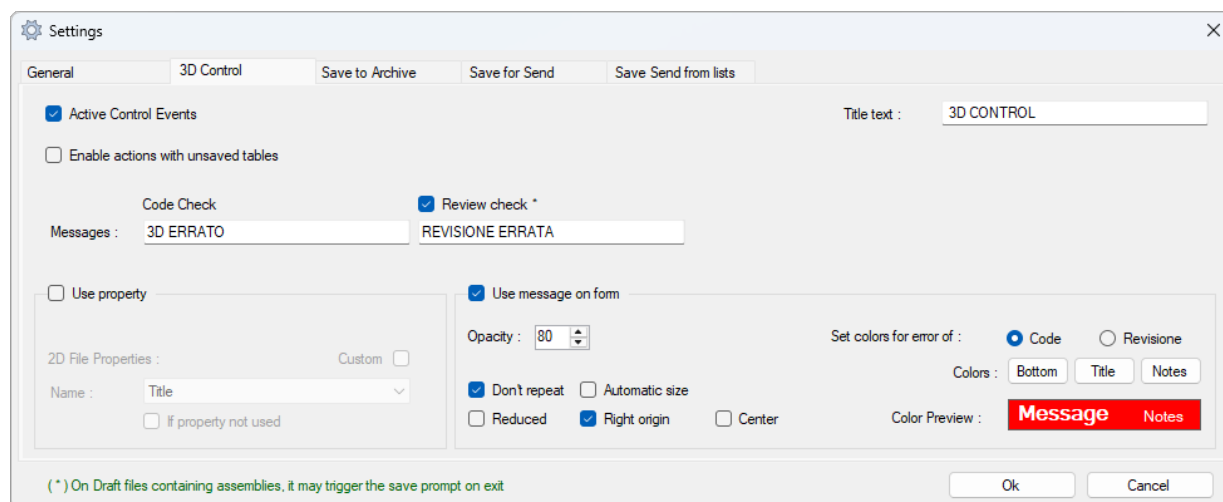
Custom Properties...

Apri il relativo Form per impostare le proprietà personalizzate dei file che si desidera gestire.

Save Settings....

Apri il relativo Form per selezionare tra i vari formati disponibili per i file 3D e Draft quelli che si desidera rendere disponibili.

Section : 3D Control



Active Control Events

Enable/disable checking for 3D/Draft files.

Mismatches in file names or versions will not be reported.

Enable actions with unsaved tables

Allows you to check the correspondence between 3D/Draft files even if the latter have not yet been saved.

Title text

Text that is added to the Solid Edge screen title to indicate that the control is active.

Code Check

Error text to display if Draft filename is different from 3D filename.

Review check

If active: Error text to display if the names of the Draft and linked 3D files match, but the Draft file has a revision extension different from the revision value assigned to the 3D file.

Use Property

Allows you to select the Draft file property where the Error Text is written. By activating the 'If property not used' flag, any text present in the property in question will not be overwritten, thus nullifying the error warning.

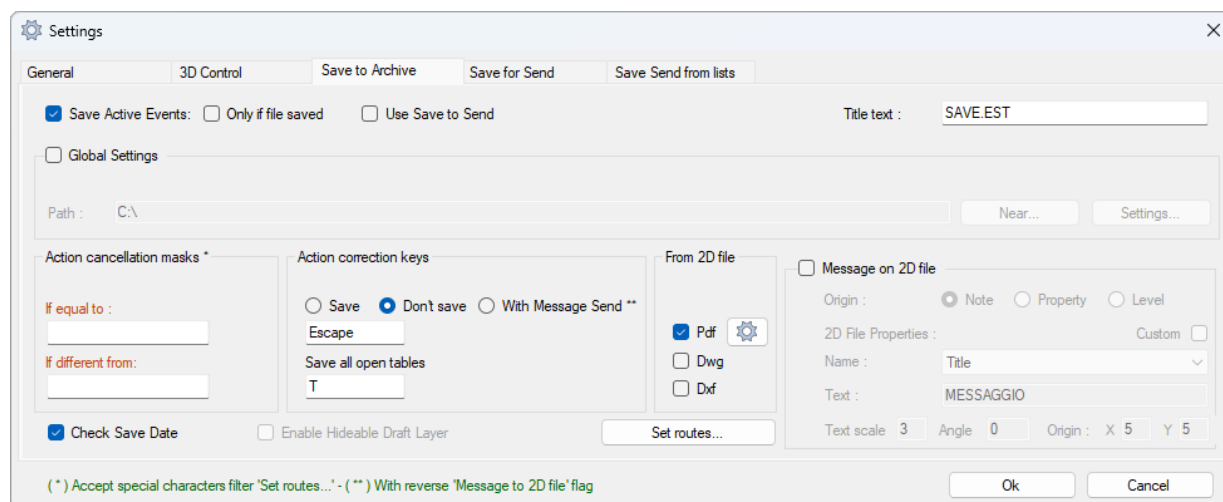
Use message on form

Allows you to display the error text in a form. In this section you can customize the form that will be displayed.

The 'Main Screen' button will only be visible if you have multiple screens.

Section : Save to archive

This section manages the automatic saving of a copy of the active Draft file each time it is saved, in the chosen formats and in the chosen disk location.



Save active Events

Enable/disable automatic saving of files.

Only if file saved

Perform automatic saving only if it has already been done previously (if it finds a copy of the file to overwrite), avoids copying files that have been saved but not yet definitive. By activating this function, the first saving of the copy of the file must be done with the 'Save in archive mode' button on the main bar.

Use save to send

If enabled, saving will use the settings defined in the 'Save for Send' section.

Title text

Text that is added to the Solid Edge screen title to indicate that the control is active.

Global Settings

When enabled, reads save settings from a common location, useful for network users who need to share the same settings.

Action cancellation masks

It allows you to perform an initial filter on the files to be saved based on the veracity of the filters, equality or diversity set.

Action correction keys

Keys to use to cancel or confirm saving files, or whether the file should be saved using the '2D File Message'.

From 2D file

Select the formats in which you want to save the Draft file.

If the 'Pdf' format is present, a button will be visible to the right to open a form to allow you to customize some settings related to this format.

Message on 2D file

If active, allows you to select the Note, property or layer of the 2D file where to write or display the Error Text.

In 'Properties' mode, if the 'If not used' flag is active, any text present in the property in question will not be overwritten, thus nullifying the error warning.

Check save date

If enabled, warns you if the last save date of the Draft file does not match the dates of its automatically saved files.

Enable Hideable Draft Layer

If active, the layer set as hideable will be hidden when saving or printing.

Set routes...

Opens the 'Paths' form to allow you to define the filters and paths to use for automatic saving of 2D files.

Section : Save for Send

This section manages saving a copy of the active Draft file (2D .dft file) or 3D file (.par, .asm, .psm), in the chosen formats and in the chosen disk location.

The screenshot shows the 'Settings' dialog box with the 'Save for Send' tab selected. The 'Path' field is set to 'C:\DISEGNI DA INVIARE'. Below it, there are checkboxes for 'Splitting into subfolders' (2D/3D, Extension, Developments). The 'Action correction keys' section has two radio buttons: '2D Save 3D if pressed' (selected) and '2D Does not save 3D if pressed'. Below this is a text field with 'S'. A note says 'Save all open tables or 3Ds (Depending on the active file type)'. The 'From 2D file' section has checkboxes for 'Pdf', 'Dwg', and 'Dxf'. The 'From 3D files' section has checkboxes for 'Pdf', 'Stp', 'Sat', and 'Igs'. The 'Message on 2D file' section has a checked checkbox, 'Origin' set to 'Note', and '2D File Properties' set to 'Title'. The 'Text' field contains 'MESSAGGIO'. The 'Text scale' is 3, 'Angle' is 0, and 'Origin' is X 5 Y 5. The '2D Active File' section has checkboxes for 'Save Sheet Development' and 'Save 3D formats only when open'. The '3D Active File' section has a checkbox for 'Save Sheet Development'. The 'Revised 3D and developments' section has a checked checkbox. The 'Failure to Develop Notice' section has a checked checkbox. The 'Notify me if files need updating' and 'Enable Hideable Draft Layer' checkboxes are unchecked. A note at the bottom says '(*) Appends the separator character and revision to the file name'. The 'Ok' and 'Cancel' buttons are at the bottom right.

Path

Path on disk where the files will be saved.

Action Correction Keys

Keys to use to cancel or confirm saving files.

From 2D file

Select the formats in which you want to save the Draft file.

From 3D files

Select the formats in which you want to save the 3D file.

Message on 2D file

If active, allows you to select the property or layer of the 2D file where to write or display the Error Text.

In 'Properties' mode, if the 'If not used' flag is active, any text present in the property in question will not be overwritten, thus nullifying the error warning.

2D Active File

Saving options for 2D files.

3D Active File

Saving options for 3D files.

Revised 3D and developments

If active, extends the name of the saved file with the revision value.

Failure to Develop Notice

Display a message if saving development fails.

Notify me if files need updating

Saving options for 3D files.

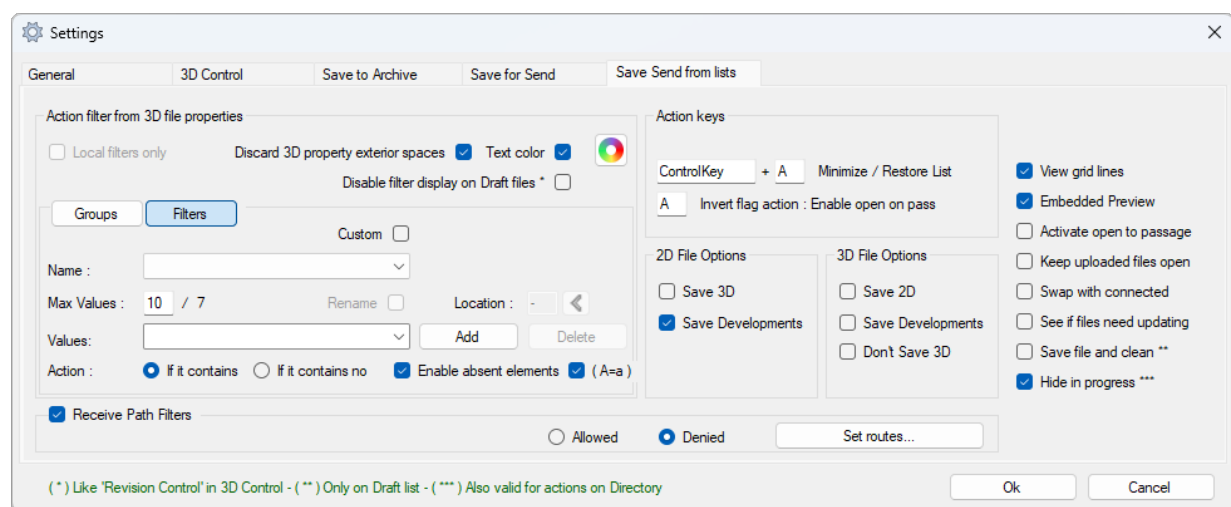
Enable Hideable Draft Layer

If active, hides the layer set as hideable in the saved file.

Section : Save sending from lists

This section manages the saving of files present in the lists (2D .dft files) or 3D files (.par, .asm, .psm), in the chosen formats.

The save path will be the one assigned in the 'Save for sending' section.



Action Filter from 3D Properties

Allows you to select the 3D file property from which to read the text to compare with the selected filter.

- Local filters only
If enabled, any filters in the 'Global Settings' will be ignored.
- Discard 3D property exterior spaces
Ignores any leading and trailing spaces in the 3D file property value.
- Text color
Flag to use custom color for text of rows that match filters. The color can be selected using the adjacent button.
- Disable filter display on Draft files
On draft files it is possible to disable the display in the main bar of the filter belonging to the linked 3D file. As this could cause the request to save on exit even if no changes have been made to the file.
- Group/Filter Selector
Select the group in which to add or redefine filter field settings.
- Custom
Enables the ability to use a custom property for filter comparison.
- Name
3D file properties to use for filter comparison.

- Max Values
Maximum number of filters that can be stored.
- Action
Filter control mode.
The 'Enable absent elements' flag always makes valid files that have an empty filter control property.

Action keys

Button to Minimize/Restore the File List Form.

Button to invert the 'Activate open on passage' flag.

2D File Options

Select the formats in which you want to save the Draft file.

3D File Options

Select the formats in which you want to save the 3D file.

Receive Path Filter

Opens the 'Filter Paths' form to set the disk paths to force or deny the search for files to upload to the list.

View grid lines

Enables grid row divider lines.

Embedded Preview

Allows you to preview the selected file in the main form below the file list or in a separate form.

Activate open to passage

If the active row contains an open file, Solid Edge will automatically make the active file.

Keep uploaded files open

Allows you to keep open in Solid Edge all files that were opened when the list was created.

Swap with connected

Double-clicking on a line containing an open file opens/makes active its associated 3D/Draft file.

See if files need updating

If active together with the 'confirm file saving' flag, when closing a Draft file in the list, before showing the save confirmation form, it shows it making it the active file.

Save file and clean

If active when closing a dirty Draft file in the list, it forces a saving to try to make it clean.
This operation is nullified if after closing the Draft file its 3D is still open.

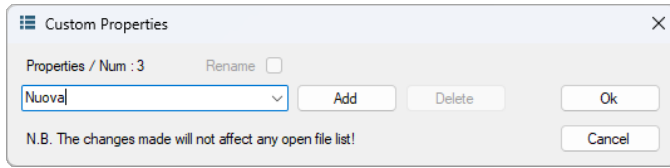
Hide in progress

When creating or inserting new files into the list, it allows you to hide the form during the processing phase. This hidden processing mode is also shared in the 'Save and Print for Directory' form.

Custom Property Form

In this form you can store a list of the Custom properties of the files you want to use. Any files that do not contain the indicated properties are treated as if they had an empty property.

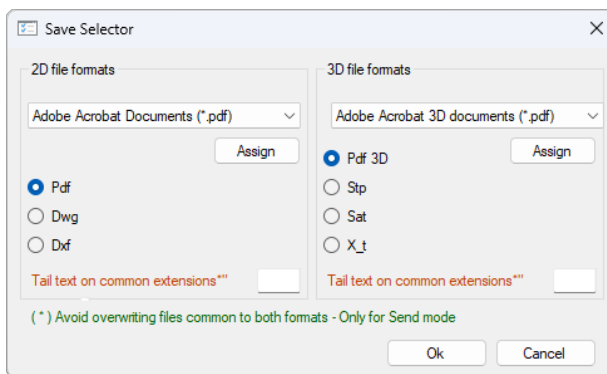
If you have an open file list, the changes made here will be active only after a new list is generated.



The 'Custom Properties' dialog box shows a list of properties with 'Nuova' selected. It includes 'Add', 'Delete', 'Ok', and 'Cancel' buttons. A note at the bottom states: 'N.B. The changes made will not affect any open file list!'.

Save Selector Form

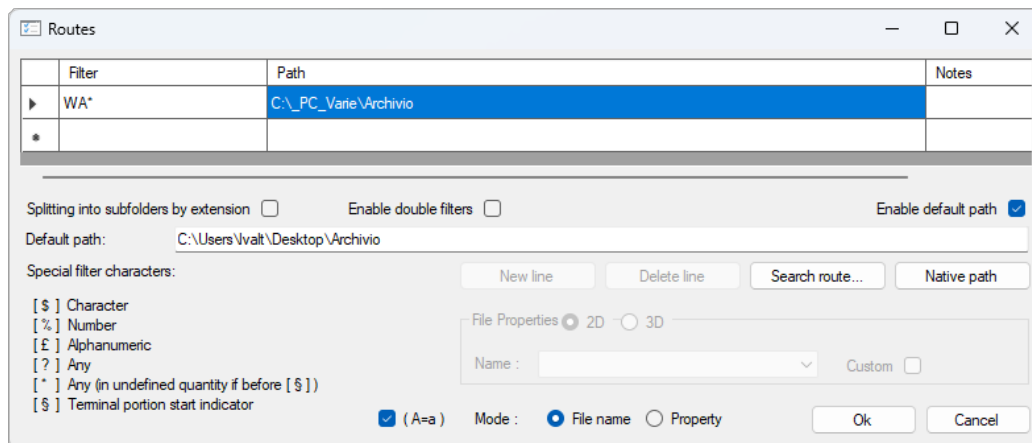
In this form you can select from the various formats available for 3D and Draft files the ones you want to make available.



The 'Save Selector' dialog box allows selecting file formats for 2D and 3D files. For 2D, 'Adobe Acrobat Documents (*.pdf)' is selected. For 3D, 'Pdf 3D' is selected. It includes 'Assign' buttons and a note: '(*) Avoid overwriting files common to both formats - Only for Send mode'.

Paths Form

In this form you can define the filters and paths to use for automatic saving of 2D files.



The 'Routes' dialog box shows a table with columns 'Filter', 'Path', and 'Notes'. The first row has 'WA*' as the filter and 'C:_PC_Varie\Archivio' as the path. Below the table are options for 'Splitting into subfolders by extension', 'Enable double filters', and 'Enable default path'. The 'Default path' is set to 'C:\Users\ivalt\Desktop\Archivio'. There are also buttons for 'New line', 'Delete line', 'Search route...', and 'Native path'. At the bottom, there are checkboxes for 'File Properties' (2D or 3D) and 'Mode' (File name or Property).

Filter / Value

Field to enter the characters to match against the file name or property to validate the filter.

Path

Path where a copy of the file that matches the filter will be saved.

Notes

Any note text.

Default path

Path where a copy of the file that does not match any of the entered filters will be saved.

Special filter characters:

- [\$] Position that must contain a non-numeric character.
- [%] Position that must contain a numeric character.
- [£] Position that must contain an alphabetic or numeric character.
- [?] Position that must contain any character.
- [*] Undefined positions that can contain any character.
If placed after the character '\$' it behaves like the character '?'.
- [\$] End position start indicator.

All filter characters that will be placed after this character will be compared to the last characters to the right of the text to be checked.

New line :

Inserts a new line for entering a new filter and path combination.

Delete line :

Deletes rows with the selected filter and path combination.

Search route... :

Opens a route search form to assign to the selected route field.

Native path

Forces the selected path field to be the same path as the original file being copied.

File Properties :

If you activate the 'Properties' mode in this section you can select the 2D(Draft) or 3D file Property to use for the filter comparison.

(A=a) :

If checked, the filter comparison will not be case sensitive, meaning the filter comparison will not differentiate between lowercase and uppercase characters.

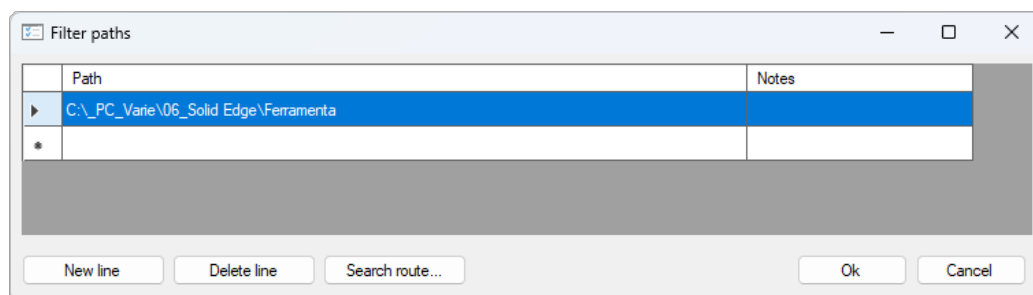
Mode :

Allows you to select what should be compared with the filter.

- File name
The comparison will be made with the file name.
- Property
The comparison will be made with the property selected in 'File Properties'.

Filter Path Form

In this form you can define the paths on which to force or deny the search of files to upload to the list.



File Properties Form

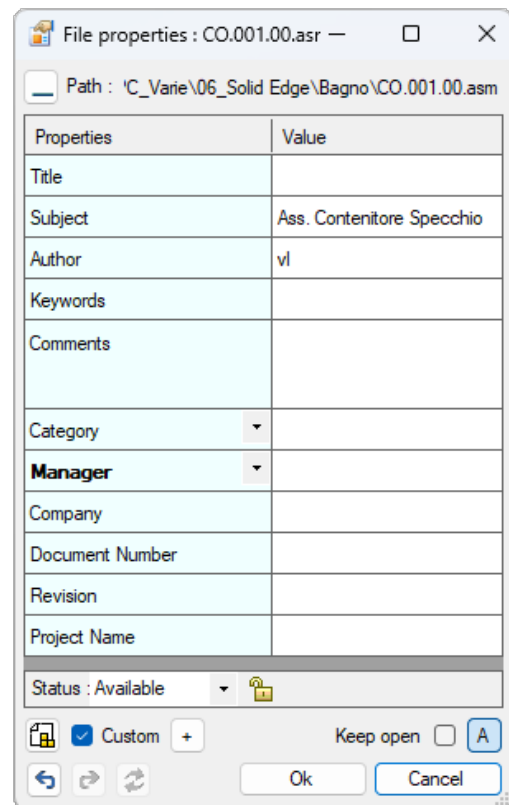
This form allows extensive management of the property settings of the active file, selected in the Path-Finder or selected from the file list.

The button to the left of the file path indicates the file selection mode:

-  • Currently active file in Solid Edge.
-  • File currently selected in PathFinder (if the selected file is not the currently active one the path band will be highlighted with a different background color).
-  • File selected from one of the file lists (Open, 3D and 2D). Unlike the two previous modes, this one is not interchangeable.

Possible activities:

- Copy or paste multiple properties at once.
- Insert the filters previously associated with a property in the 'Settings' form in the 'Save sending from lists' section.
- Hide standard properties that you don't intend to use.
- Hide/show Custom properties.
- Open/make active the associated 3D/Draft file.
- Change the active file with the form kept open.
- Disable automatic updating: 'A' active '-' inactive (with the form open, automatic updating in file exchange could generate unnecessary intermediate updates).
- Scroll through recently activated files and recover them with the Undo/Redo function.
- Force the update of the entered data.



Properties	Value
Title	
Subject	Ass. Contenitore Specchio
Author	vl
Keywords	
Comments	
Category	
Manager	
Company	
Document Number	
Revision	
Project Name	

Status : Available

 ☒ Custom + Keep open ☐ A

   Ok Cancel

There are 2 typing modes available:

Base

By clicking directly in the Value field.

Extended

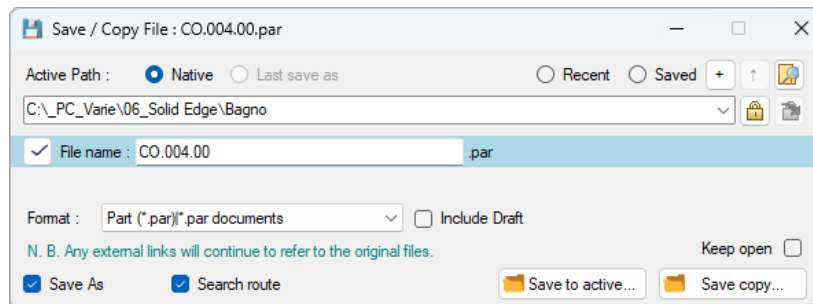
By clicking in the Properties field, in this mode the typing can be scrolled with the use of the 'arrow' keys on all editable property fields.

If the editor is active in the comments property and there are multiple lines, to change properties you need to use the key combination 'Control'+ 'arrow'.

The '+' button allows you to add new Custom properties.

Save/Copy File Form

This form accessible from the 'Save/Copy' button on the main bar allows you to save or make a copy of the active or selected file in the PathFinder by choosing from various lists of paths.



Selectable routes:

- Native
Source path of the file.
- Last save as
Last saved file path as.
- Recent
Last search paths used.
- Saved
Saved routes, to save the active route use the '+' button, while the '↑' button allows you to change the order of storage.

Save selection:



- Currently active file in Solid Edge.



- File currently selected in PathFinder (if the selected file is not the currently active one the path band will be highlighted with a different background color).

Path block:



- Saved route / route from list
Allows you to save the current route or restore the previously activated route list.



- Restore saved route
From a list selection restores the last saved route.

Saving options:

- Save the active file or its selected components (only if currently open) by deactivating the 'Save As' flag.
- Save or rename the active file or its selected components by activating the 'Save as' flag. In this case, you can search for a new path by activating the 'Search for path' flag.

Use the 'Save / Save to Active...' button to save or rename the selected file.

Use the 'Save Copy' button to rename or save a copy of the selected file.

Temporary Settings Form - Save for Submission

This form allows you to temporarily change some settings in the 'Save for sending' and 'Save sending from lists' sections of the 'Settings' form. The settings changed here will not be retained the next time you start the program.

From 2D files

Select the formats in which you want to save the Draft file.

From 3D files

Select the formats in which you want to save the 3D file.

Section : Active File

Allows you to change the saving settings for 2D and 3D files of the currently active file.

Section : Files from lists/Directories

Allows you to change the saving settings for 2D and 3D files of the file contained in lists or directory operations.

Lack of development warning

Allows you to enable or disable the development failed message.

Enable developments of all Draft file indexes

If the draft file contains multiple references to '.psm' files (sheet metal) it allows you to obtain the development of all of them.

Enable Hideable Draft Layer

Allows you to enable or disable the layer set as hideable.

Message on 2D file

Allows you to enable or disable the Error Text setting.

Black and white PDF

Allows you to convert colors to shades of gray.

Print Settings Form

This form allows you to choose the printer to use and set the printing modes.

Correct printing of files containing multiple drawing sheets, with different orientations or formats is guaranteed by activating the relevant flags:

- Orientation = 'Auto'
For sheets with mixed orientations 'Horizontal/Vertical'.
- Automatic paper format
For mixed format sheets 'A4/A3 etc...

You can disable print colors, set the number of copies, select the sheets to print and the print scale.

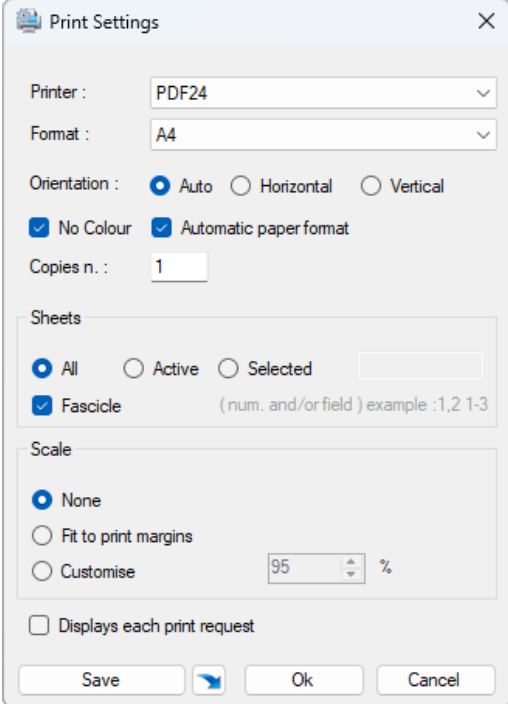
If you print with multiple copies, you can collate files containing multiple pages.

If 'Display at every print request' is checked, the form will be displayed before executing each print sequence.

The 'Save' button saves all settings.

The 'Ok' button sets the settings temporarily (they will not be retained on the next reboot)

Only if previously saved with the 'Save' button, the temporarily set settings can be restored to the previously saved ones using the 'curved arrow' button.



The screenshot shows the 'Print Settings' dialog box with the following configuration:

- Printer:** PDF24
- Format:** A4
- Orientation:** ☒ Auto, ☐ Horizontal, ☐ Vertical
- ☒ No Colour, ☒ Automatic paper format
- Copies n.:** 1
- Sheets:** ☒ All, ☐ Active, ☐ Selected, (empty)
☒ Fascicle (num. and/or field) example :1,2 1-3
- Scale:** ☒ None, ☐ Fit to print margins, ☐ Customise (95 %)
- ☐ Displays each print request
- Buttons:** Save, , Ok, Cancel

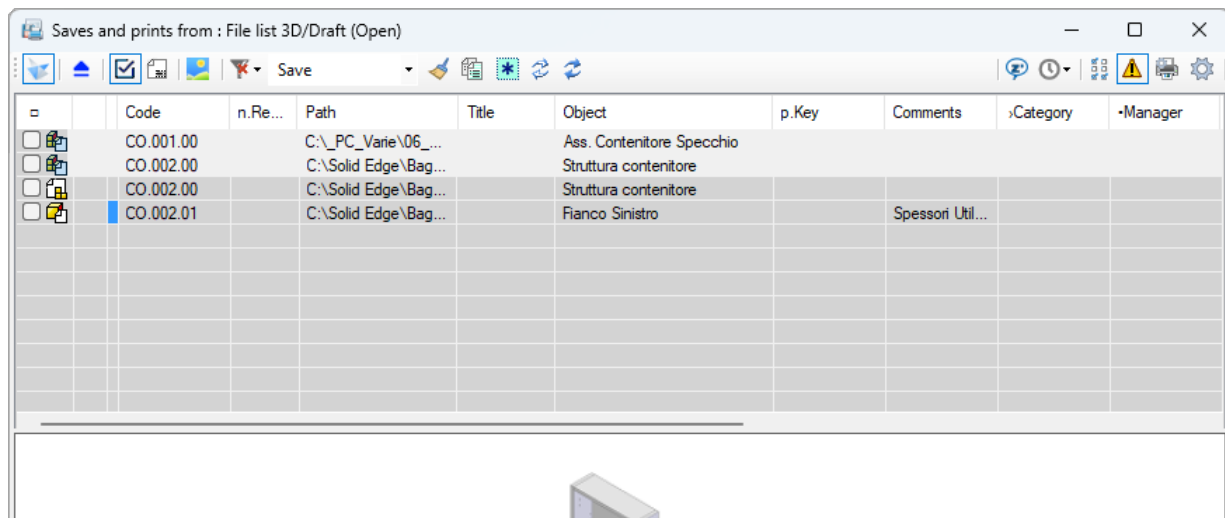
Form Actions on Lists (Multiple Saves and Prints)

In this form you can perform multiple actions on 3D / Draft files, working on two types of file lists, 'Loaded Drawing List' (files currently open in Solid Edge, automatically updated) or '3D-Draft List' (files not necessarily open in Solid Edge).

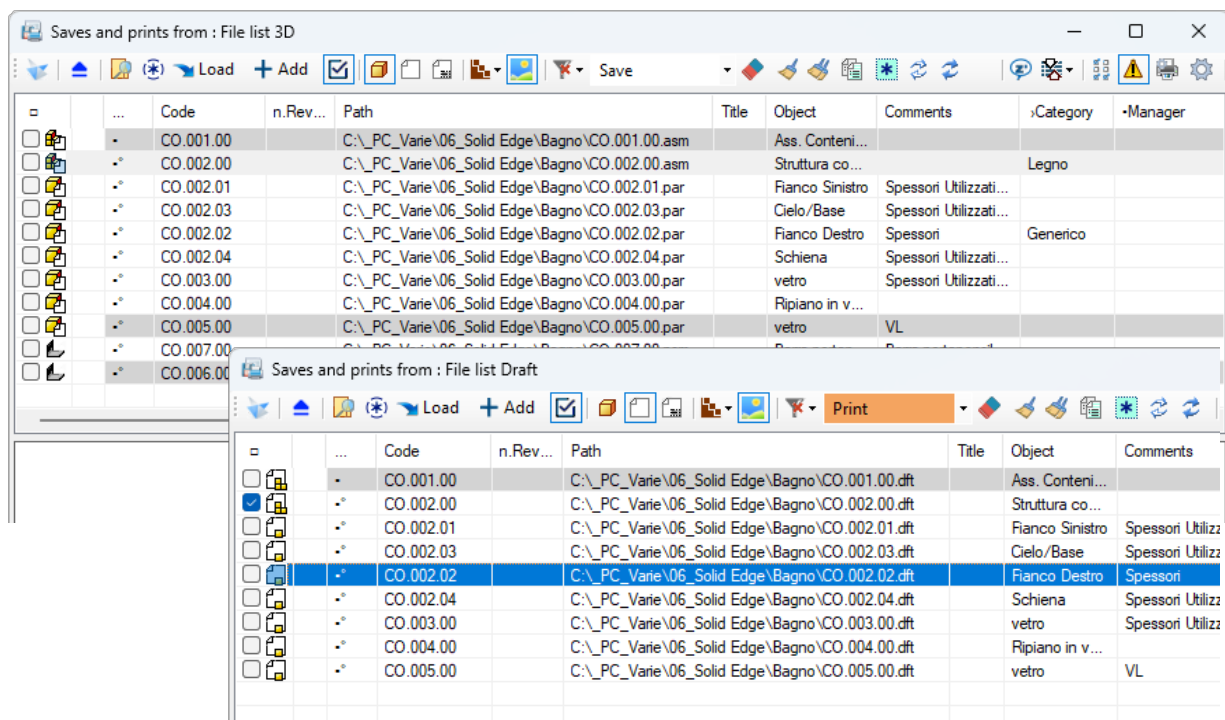
It consists of:

- Top bar
- List of files
- File preview area (if visible)
- Lower command bar

List of Uploaded Drawings

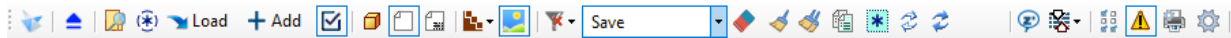


3D Draft List



Top bar

Located above the file list, it allows you to perform the main actions (in 'Loaded Drawings List' mode, some actions are not present).



- 
 - **Select List**
Switch between 'Loaded Drawing List' and '3D-Draft List' modes.
- 
 - **Featured**
Keeps the form always on top.
- 
 - **Search Files...**
Opens the search form for files to upload to the list.
- 
 - **Insertion mode**
Switch between 'Global' and 'Selection' insertion modes and vice versa. The 'Load' and 'Add' buttons behave differently depending on the active mode. If 'Global' they will act on all components of the loaded file, otherwise only on the currently selected components. In 'Selection' mode the buttons involved will change from light blue to sepia.
- 
 - **Load**
Clear the list and load the currently active file in Solid Edge into the list. If it is an Assembly, the loading of its components is governed by the setting chosen in 'Layer Selector'.
- 
 - **Add**
Adds the currently active file in Solid Edge to the list. If it is an Assembly, the loading of its components is governed by the setting chosen in 'Layer Selector'.
- 
 - **CheckBox**
Enable/disable visibility of the CheckBox in the file list.
- 
 - **Solid Elements**
In the '3D-Draft List', Allows you to view the 3D components of the loaded files.
- 
 - **Draft Tables**
In the '3D-Draft List', Allows you to view the Draft tables associated with the uploaded files.
- 
 - **Draft Tables with their own properties**
In the 'List of loaded drawings' and 'List of 3D-Drafts, Allows you to view the Draft tables with their own properties and not with those of the associated 3D files.
- 
 - **Level Selector**
Allows you to choose how deep you want to search for components in Assembly files.
- 
 - **Preview**
Allows you to preview the selected file.
- 
 - **Action Filter**
Allows you to activate a filter on the file saving and printing actions. The filter masks can be defined in the 'Action Filters' form.
- 
 - **Action Selector**
Select the actions to perform: Save, Print, or Save and Print.
- 
 - **Delete lists**
Delete both lists (3D and Draft).
- 
 - **Clear List**
Clear the active list from reports of actions performed.
- 
 - **Clear both lists**
Clear both lists (3D and Draft) from action reports.

- 
 - **Copy to clipboard**
Copies the contents of the list to the clipboard.
- 
 - **Select All**
Selects the entire contents of the list.
- 
 - **Refresh Open Files**
Updates the visual display and properties of files (in the list) currently open in Solid Edge.
- 
 - **Reload List**
Reloads and updates the entire contents of the list.
- 
 - **Suspension**
Allows you to interrupt the connection with Solid Edge events, if the workload to be supported is very heavy it avoids overloading it further.
- 
 - **List Management**
Allows you to save the list of files currently loaded.
- 
 - **Temporary Settings...**
Opens the Temporary Settings form, where any changes you make will only be temporary because they will not be saved when you close the application.
- 
 - **Confirm file save**
If enabled, all files will be closed without being saved, any changes will be lost (useful for speeding up the closing of multiple open files, as long as you are sure that the changes made in the meantime do not need to be saved).
- 
 - **Print Settings...**
Opens the Print Settings form, where you can select the printer and define the printing options.
- 
 - **Settings...**
Opens the Settings form.

List of files

It is the fundamental part of all the actions that can be performed and can be visible in 2 modes: Loaded Drawings List (files currently open in Solid Edge) and 3D-Drafts List (Files loaded from disk paths).

The list background changes color based on the active mode, gray for files currently open in Solid Edge, and light for files loaded from disk paths.

In the 3D-Draft list, the presence of files currently open in Solid Edge is indicated by lines with a gray background (like the Solid Edge currently open files list).

Operations performed on the lists are indicated by the background colour of the lines involved:

Sky blue	Actions performed correctly
Orange	Actions with problems (failure to develop sheet metal)
Light orange	Problematic stocks (failure to develop draft index plates)
Red	Actions not taken

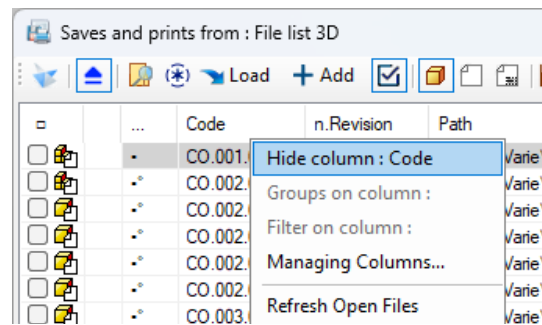
At the top of the list are the column titles, the first ones on the left, which cannot be sorted horizontally, represent the status of the files in the list, the ones on the right, which can be sorted horizontally, represent the standard Solid Edge properties relating to the 3D file.

All columns except the leftmost one (the one containing the icon identifying the file type) can be hidden.

From this list you can open a column management menu and a file list management menu:

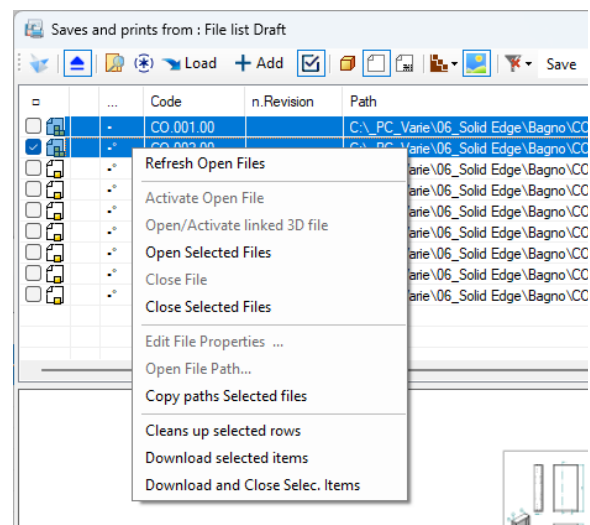
Menu Columns :

- *Hide Column : (active column name)*
Hides the active column.
- *Groups on column: (active column name)*
Associate the column with Filter Groups.
- *Filter on column: (active column name)*
Associate column with filters.
- *Managing Columns...*
Opens the 'Columns' form to select the columns to make visible.
-
- *Refresh Open Files*
Updates the visual display of files (in the list) currently open in Solid Edge.

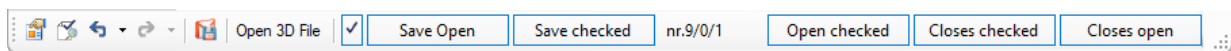


File List Menu :

- *Refresh Open Files*
Updates the visual display and properties of files (in the list) currently open in Solid Edge.
-
- *Open / Activate Open File*
Opens the selected file or makes it the active file if it is already open in Solid Edge.
- *Opens another list file (title varies depending on the situation)*
Opens / Activates associated Draft or 3D file.
- *Close File*
Closes the selected file.
- *Close Selected Files*
Closes all selected files.
-
- *Edit file Properties...*
Opens the 'File Properties' form to define the properties of the selected file (only if the 'Draft Tables with their own properties' list is selected, the modified properties will be those of the Draft file, otherwise they will always concern those of the selected or associated 3D file).
- *Open File Path...*
Opens a new File Explorer session on the folder containing the file.
- *Copy paths Selected Files*
Copies the paths of the selected files to the clipboard.
-
- *Clear line / Cleans up selected rows*
Clear selected rows from action reports.
- *Download item / Download selected items*
Delete selected rows.
- *Download and Close Item / Download and Close Selec. Items*
Delete selected lines and close files if open.



Bottom command bar



At the bottom is the command bar which is divided into two sections.

The first one on the left contains a copy of some commands from the main program bar, which allows you to interact with the file currently active in Solid Edge. By clicking in an empty space of the bar with the right mouse button, you can display a menu that allows you to choose the components to display in this first section of the bar.

The second section is used to interact with the content of the file list present in this form. The content of this section changes depending on the type of open list 'List of loaded drawings' and 'List of 3D-Drafts'.

If the CheckBox in the list is visible, the first button allows you to change the behavior of the subsequent buttons (action on elements with the CheckBox checked or on selected elements).

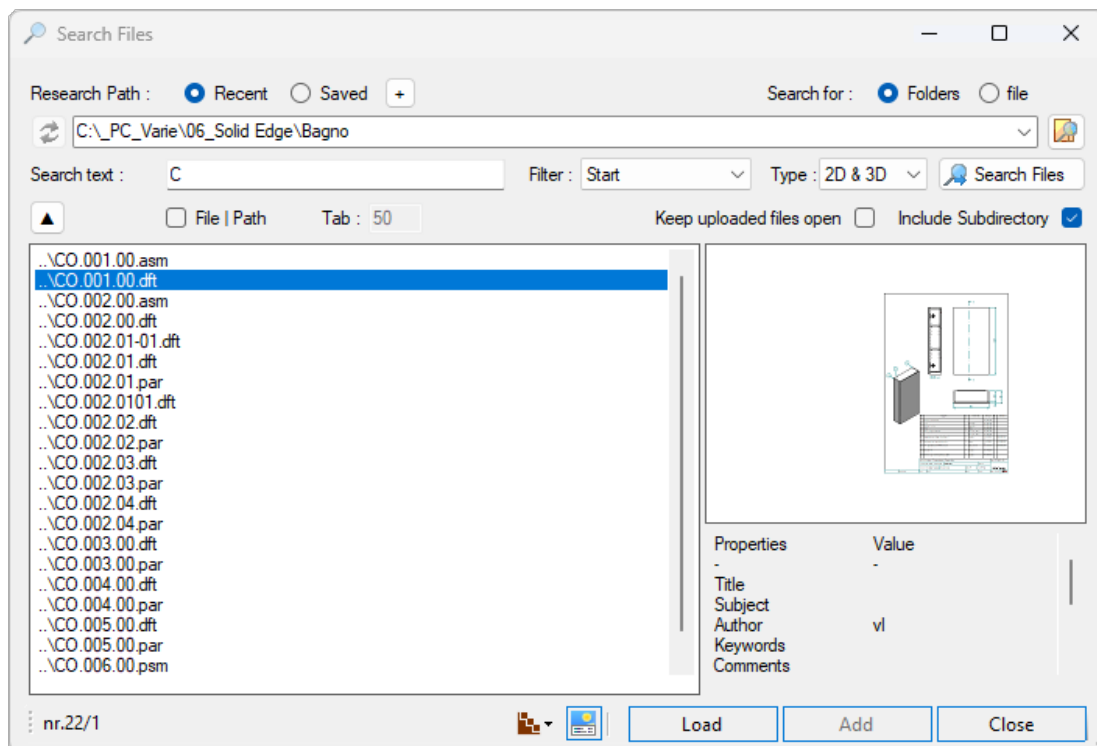
The two buttons allow you to close in Solid Edge the files indicated as open (only in the '3D-Draft List' list) or selected in the list.

To the right of these buttons there is a field that shows the number of files present, selected and with CheckBox checked (if visible).

The remaining buttons allow you to open the listed open files in Solid Edge or perform the selected action on the files in the list.

File Search Form

This form allows you to search for files to include in the list.



There are two ways to store routes that you can use:

- Recent - Ultimi percorsi di ricerca utilizzati. Last search paths used.
- Saved - Saved routes, to save the active route use the '+' button, while the '↑' button allows you to change.

The search for new paths can be done with the 'Search for files' button, which opens the 'Folders' or 'Files' search form based on the selected flag.

In the 'Search text' field, you must enter the text to search for; the ';' character allows you to divide the text to obtain a multiple search.

The search can be limited to the current directory or extended to all subdirectories.

Using the 'Filter' and 'File type' drop-down menus you define the search mask.

The 'Search for files' button starts the search and loads the list of paths with the found files.

The list of paths can be displayed in 'Path' or 'File | Path' mode. If you use the latter, you can define the tabulation between the two columns and the width of the list.

Next to the path list, you may see the file properties pane and the preview pane.

In the bottom bar you can select the search depth on Assembly files and the visibility of the properties and preview panes.

With the 'Load' button the 'List Actions Form' list will be cleared and loaded with the selected files and the search form will be closed.

With the 'Add' button the selected files will be added to the 'List Actions Form' list and the search form will be closed.

The Close button closes the form without performing any operation.

Form Action Filters

In this form, accessible from the top bar via the drop-down menu of the 'Action filter' button, you can select the filters to activate for actions on files in the 'File list'.

The filters contained in this list are defined in the 'Save for Send' section of the 'Settings' form.

It is optional to use the 'Groups' section to allow further subdivision of the filters. If a property has not been assigned in the 'Settings' form and/or filters have not been inserted, this section will not be visible.

There are two ways to compare filters:

- **Filter Text/Group Text**
Checks whether the filter text contains the text in the file property.
- **3D Property Text**
Checks whether the property text contains the text in the filter.
The comparison can be:
 - **Complete**
The two texts must match.
 - **Start**
If 'Filter Text' the filter must start with the text contained in the property.
If 'Property Text' the property must start with the text contained in the filter.
 - **It ends**
If 'Filter Text' the filter must end with the text contained in the property.
If 'Property Text' the property must end with the text contained in the filter.

The screenshot shows the 'Action filters' dialog box. It is divided into two main panels: 'Groups' on the left and 'Filters' on the right. Both panels have a title bar with a close button (X). The 'Groups' panel has a dropdown for '3D properties : Manager' and a list of items: 'Prod. Interna' and 'Prod. Estema'. Below the list are checkboxes for 'Absent elements' and '(A=a)', and radio buttons for 'If it contains' and 'If it contains no'. At the bottom of the 'Groups' panel are 'Ignore groups' and 'Use groups' buttons. The 'Filters' panel has a dropdown for '3D properties : Category' and a list of items: 'Generico', 'Vetro', 'Legno', 'Comp Saldato', 'Componente', 'Lamiera', and 'Metallo'. Below the list are checkboxes for 'Absent elements' and '(A=a)', and radio buttons for 'If it contains' and 'If it contains no'. At the bottom of the 'Filters' panel are 'Ok' and 'Cancel' buttons.

- Contains
If 'Filter Text' the filter must contain the text contained in the property.
If 'Property Text' the property must contain the text contained in the filter.

By activating the 'Activate absent elements' flag, any files that do not contain any of the activated filters will be considered valid with any 'If contains' or 'If does not contain' flag selected.

By activating the '(A=a)' flag, the filter will not distinguish between lowercase and uppercase characters.

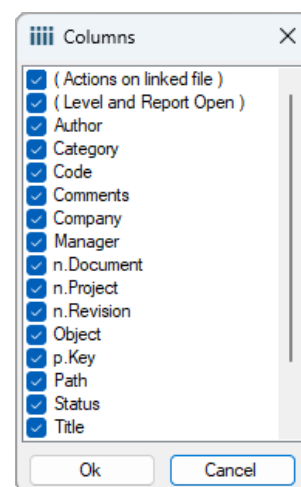
Furthermore, the truthfulness of the filter can be chosen between the two options 'If contains' or 'If does not contain'.

Column Forms

In this form you can select the columns of the file list that should be visible.

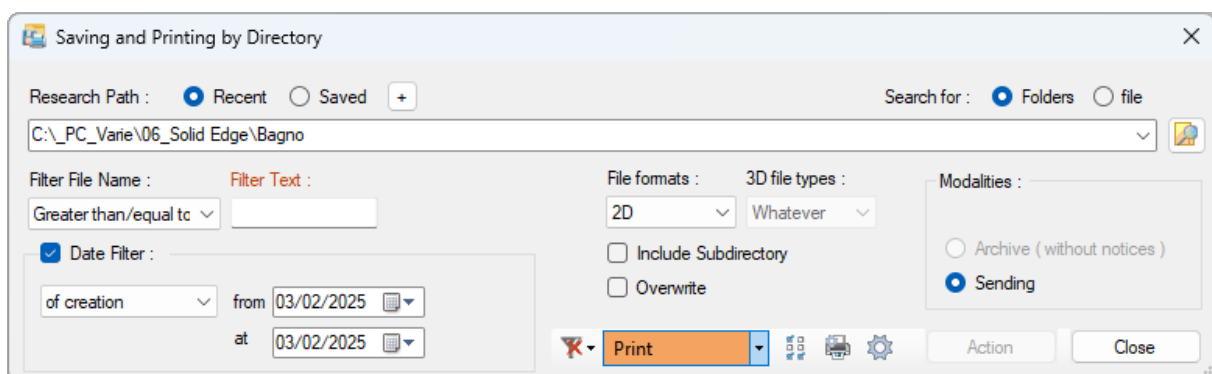
This form is accessible by right-clicking on the column names in the file list.

The list of available columns varies depending on the type of list currently active: 'Loaded Drawings List' or '3D-Draft List'.



Save and Print Form for Directory

This form allows you to perform saving or printing actions on files contained in the selected directories.



There are two ways to store routes that you can use

- Recent - Last search paths used.
- Saved - Saved routes (In this mode, use the '+' button to save the active route, while the '↑' button can be used to change the order in which the routes are saved.

The two storage modes indicated above share the paths of the storage modes present in the 'Search File' form.

The search for new paths can be done with the 'Search for files' button, which opens the 'Folders' or 'Files' search form based on the selected flag.

There are multiple selections available to select files to save and/or print:

- **None File Filter**
Allows you to filter which portion of the file name must match the 'Filter Text'. It also allows you to use the list of previously selected files when searching for paths in 'File' mode.
- **Filter text**
Text used for filtering for file names.
- **File Format**
2D / 3D file membership format.
- **File Types**
Active only if 3D format is selected and allows you to choose between: Sheet Metal Parts and Assemblies.
- **Mode**
Allows you to select between two file saving settings: 'Archive' (the settings used by automatic saving) and 'Send' (the settings used in manual saving and in the file list).
- **Date Filter**
Allows you to filter files based on the date settings you assign.
- **Include Subdirectories / Overwrite**
Allow you to limit the selection to the current directory or extend it to all subdirectories and decide whether to overwrite any files already present.

As a final component, next to the 'Action' and 'Close' buttons, there is a bar that shares some of the buttons of the upper bar of the 'Actions on lists' form:



- **Action Filter**
*Allows you to activate a filter on file saving and printing actions.
The filter masks can be defined in the 'Action Filters' form.*



- **Action Selector**
Select the actions to perform: Save, Print, or Save and Print.



- **Temporary Settings...**
Opens the Temporary Settings form, where any changes you make will only be temporary because they will not be saved when you close the application.



- **Print Settings...**
Opens the Print Settings form, where you can select the printer and define the printing options.



- **Settings...**
Opens the Settings form.

Form Series (Creating files derived from the active file)

In this form with active file of type 'Part' or 'Sheet Metal', it is possible to create from these new files with modified characteristics based on the changes made to variables and properties. There are two file creation modes, 'Columns' and 'Increment'.

Columns Mode

Series of : A1GW003.par

Path : C:_PC_Varie\06_Solid Edge\Disegni

Type	Original	A1GW003_A	A1GW003_B	A1GW003_C
Share	L = 1305	@+Passo	@+@+Passo	@+@+Passo
Variable	H = 2443	@+(Passo/2)	@+(Passo/2)	@+(Passo/2)
Properties	Subject = SCHIENALE	Subject+"_A";	Subject+"_B";	Subject+"_C";

Operating

Type : Properties Name : Subject Custom New Line + - x / Paste

Draft Options

Save Update

Save 3D Send Mode

Include Active File

2D Formats

Create file name

File name : A1GW003 File n. 4 New Column

Boost mode

Properties with formulas Types : No update

Confirm overwrite

Save Action Close

Note First character : @ = original value, @@ = original value incremented, If Properties with formulas the texts must be enclosed in quotation marks ("").

Increment Mode

Series of : A1GW003.par

Path : C:_PC_Varie\06_Solid Edge\Disegni

Type	Original	Increase
Share	L = 1305	@+Passo;@+@+Passo;@+@+Passo
Variable	H = 2443	@+(Passo/2);@+(Passo/2);@+(Passo/2)
Properties	Subject = SCHIENALE	Subject+"_A";Subject+"_B";Subject+"_C";

Operating

Type : Properties Name : Subject Custom New Line + - x / Paste

Draft Options

Save Update

Save 3D Send Mode

Include Active File

2D Formats

Create incremental files

File name : Name + Sep. + Increment Nome : A1GW003 Sep. : _ Mask : 00 Dx

Amount : 3 Increment Value : 1 # By field Type : 0-9 A-Z a-z Initial value : A

Boost mode

Properties with formulas Types : No update

Confirm overwrite

Save Action Close

Notes 1st Separator character = ; 2nd First character : @ = original value, @@ = incremented original value, If Properties with formulas, the texts must be enclosed in quotation marks ("").

Path

File saving path, with the first button on the right you can select a new path, while with the second you can return to the original path of the active file. Still on the right there is a Bar that shares some buttons of the Upper Bar of the 'Actions on lists' form.

Grid

In the grid below, the fields for defining the file modification formulas must be inserted. The first column will contain the type of object to be modified, Variable (Quote or Variable) or Property. The second column will contain the name and original value of the object (variable or property) indicated. The following columns (only one in increment mode) must contain the modification formulas of the object relating to the files to be created.

Columns Mode

In each column header of the grid you will have to insert the name of the new file and in the rows below the formulas for modifying the objects inserted in the grid.

Increment Mode

All fields for assigning object values will be inserted in a single column, the ';' character will delimit the passage to the field relating to the next file to be created. To create file names, you will have to use the settings in the 'Create incremental files' section.

Only in this mode will it be possible to insert a constant increment formula at the end of the last possible field, to allow the definition of the increment value (or formula) of the object that will be used for all the remaining files to be created :

@[0-9][A-Z][a-z][Increase][#][000][Dx]

@@[0-9][A-Z][a-z][Increase][#][000][Dx]

@@[Start formula with original initial value of the type.

@@[Start formula with initial value incremented by type.

[0-9][A-Z][a-z] [0-9] numeric values, [A-Z] uppercase characters, [a-z] lowercase characters (the simultaneous use of [A-Z] and [a-z] is not allowed).
[A-Z] and [a-z] can only be used on objects of type Property.
Increment types can be omitted, in which case they will be assigned based on the starting value.

[Increase] Positive or negative numeric value of increment (or formula).

[#] If increment flag is present for fields (for Property objects only).

[000] Fill mask for incremented value (for Property objects only).

[Dx] If present, it allows the form to be filled from the left to leave the unused fields on the right.

Examples :

Object X of value 2 for 4 files to create : @@[0-9][A-Z][2][000] = 004,006,009,00B

Object X of value 2 for 4 files to create : @@[0-9][A-Z][2][000][Dx] = 400,600,900,B00

Object X of value 2 for 4 files to create : @@[0-9][A-Z][2][#][000] = 004,006,009,00B

Object X of value 2 for 4 files to create : @@[0-9][A-Z][2][#][000][Dx] = 400,600,900,B00

With this formula the original value of the object or the updated last field is incremented by 2 units at each file using numeric values and uppercase characters.

Create Incremental Files Section

In this section you can define the file names.

The positive or negative increment value.

The starting value of the increment.

The increment mode: [0-9] numeric values, [A-Z] uppercase characters, [a-z] lowercase characters (the simultaneous use of [A-Z] and [a-z] is not allowed).

The possibility of obtaining an increment by fields (the increment goes to the next field if the current field is no longer incrementable).

The possibility of using a fill mask and whether this must use the fields on the right last.

In the columns reserved for data containment, based on the type of object to which they belong, the values entered must satisfy the following rules :

For any type:

Inserting '@' as the first character will return the original value of the Variable or Property, while the '@@' character pair will return its value incremented by the last operation performed on the line.

For type Variable or (Property if the 'Property with formulas' flag is active):

Numeric values and names of variables or Properties with numeric values can be enclosed in brackets '()', while texts must be inserted between double quotation marks "". The arithmetic operators '+-*' can be used.

It is also possible to use the function IF(Op1.Op2 : A : B) which, based on the result of the comparison of the operators 'Op1.Op2', returns the value of 'A' if the condition is True, 'B' if False.

The operators that can be used for the condition are:

- | | |
|----|--|
| = | True if the two operators are equal. |
| <> | True if the two operators are different. |
| < | True if the first operator is less than the second. |
| > | True if the first operator is greater than the second. |

Example : IF(5<10: 1: 2) returns 1

The variant : >IF(Op1.Op2 : A : B) can only be used in Increment mode and allows you to use a single function to compare all the files to be created.

By type (Properties if the 'Properties with formulas' flag is disabled):

All text will be free of formulas, it will not be necessary to put texts between double quotes and it will not be possible to use any arithmetic operators all arithmetic operators will be disabled.

Section : Operand

Contains the type and name of the object to be inserted into the grid, and also allows you to paste the name or (value, Property type only and the 'Property with formulas' flag is disabled) into the currently active cell of the grid together with the selected operator.

Section : Create file name

Allows you to insert the name of the new file to be created in the grid headers.

Section : Create incremental files

Allows you to define the method of creating the names of new files to be created, set the type of increment of the additional fields to the name and use a mask to fill in the same fields.

Section : Draft Options

Options for saving new draft files, but only if the active file has one associated with it.

Section : Save Send Mode

Options to get additional types of saves based on the settings in the 'Save for Send' mode.

Boost mode

Allows you to switch between 'Columns' mode and 'Increment' mode.

Properties with formulas

Allows the use of formulas in rows with 'Property' types. With this flag disabled, in these rows the 'Paste' button would insert the value and not the name of the Variable or Property.

Types :

Allows you to select the update mode of the modified Variables and Properties when saving files :

No update, Update to the latest file and Immediate update.

N.B : Using immediate update, in the presence of formulas the order of the grid rows is important to avoid unexpected results.

Confirm overwrite

Allows you to ask for confirmation before overwriting files to be created that already exist.



Save button

Allows you to save the grid state together with the settings of the blue fields in a file with the same name as the active file (action also performed with the 'Action' button).

Action

Launches file creation, if the active file has been created the status file updates it as the 'Save' button would do.