



ControlSave

version 5.1

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
- Basic components + 1st level
- Basic components + 1st/2nd level
- Basic components + 1st/2nd/3rd level

- 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.
-  • Notes Attributes
Allows you to assign a note attribute to occurrences of ".asm" assembly files and to features of ".par" and ".psm" part and sheet metal files. Display a list containing all assigned attributes.
-  • 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.

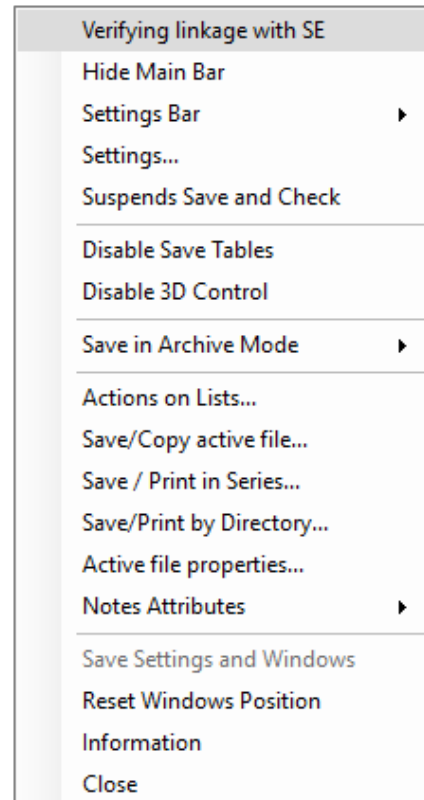


- Settings...
Opens the Settings form.

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.
-
- *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.
- *Notes Attributes*
Allows you to assign a note attribute to occurrences of ".asm" assembly files and to features of ".par" and ".psm" part and sheet metal files. Display a list containing all assigned attributes.
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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)

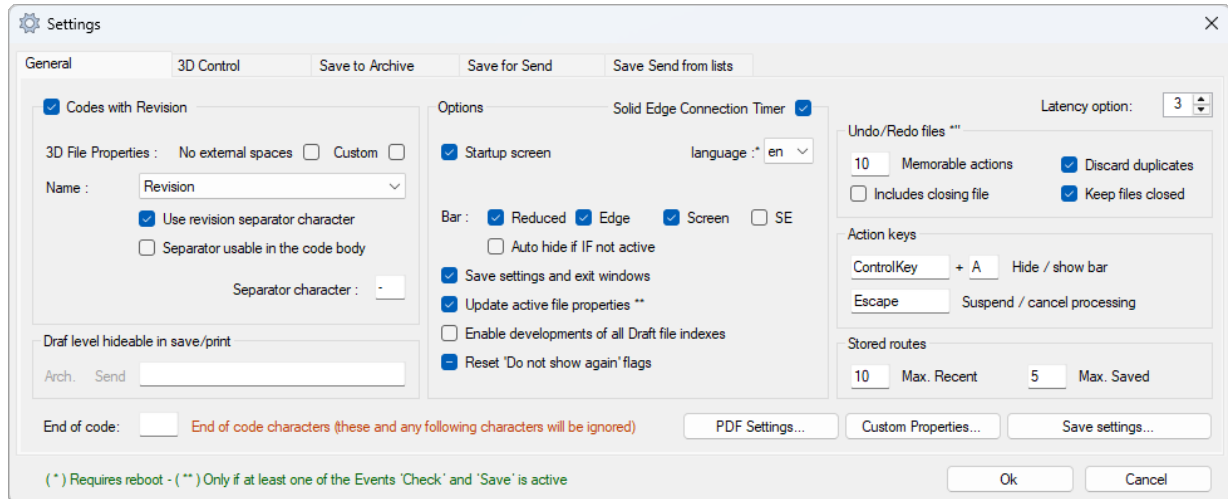
Allows each time the active Draft file is saved, a copy of it will be saved in the path and formats chosen in the Save for Archive section of the Settings Form.

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 consentire di forzare alcune impostazioni relative ai file PDF.

Custom Properties...

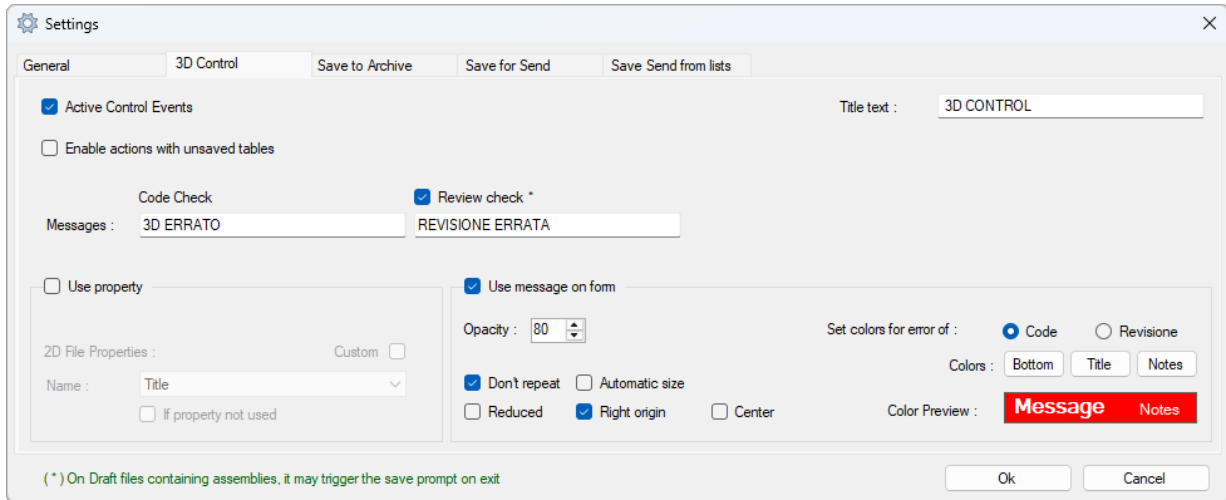
Opens the related Form to set the Custom properties of the files you want to manage.

Save Settings....

Opens the relevant Form to select from the various formats available for 3D and Draft files those to make available.

Section : 3D Control

This section checks whether the Draft file name matches the name of the associated 3D file and whether any revision extensions are included in the Draft file name.



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.

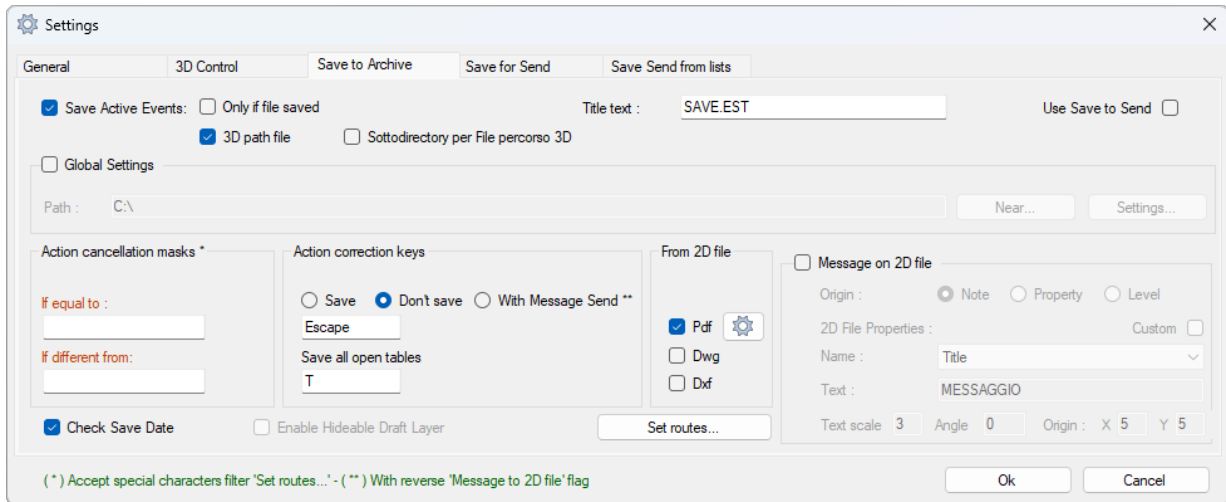
Use message on form

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.

Title text

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

Use save to send

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

3D Path File

Save a text file containing the path to the 3D file associated with the Draft file saved in Archive mode, in the same location and with the same name.

Sottodirectory per File percorso 3D

Se 'File percorso 3D' attivo consente di salvare il file di testo relativo in una sottodirectory del percorso assegnato al file Draft.

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

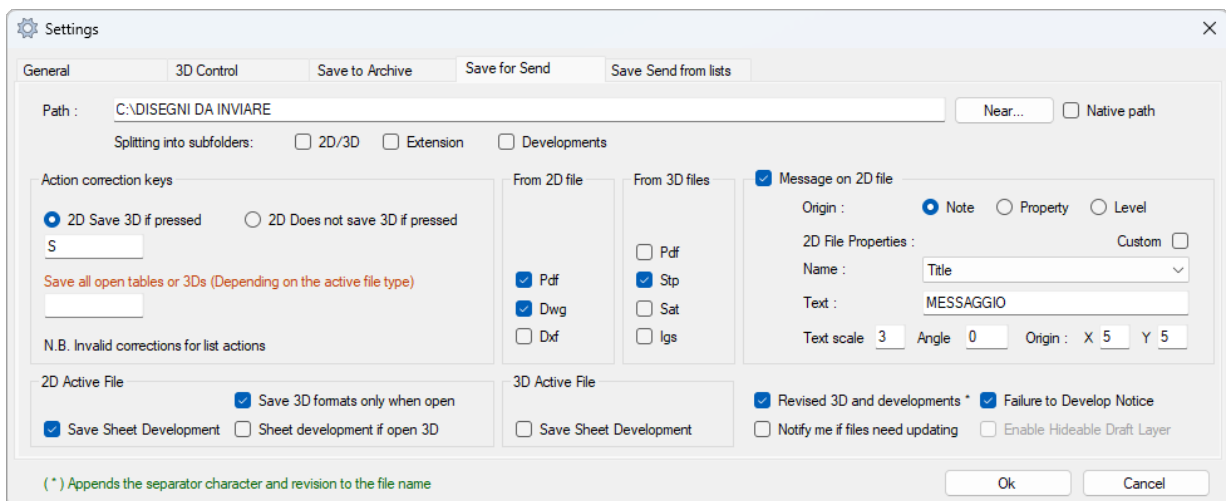
If active, the layer set as hideable will be hidden when saving or printing.

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.



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.

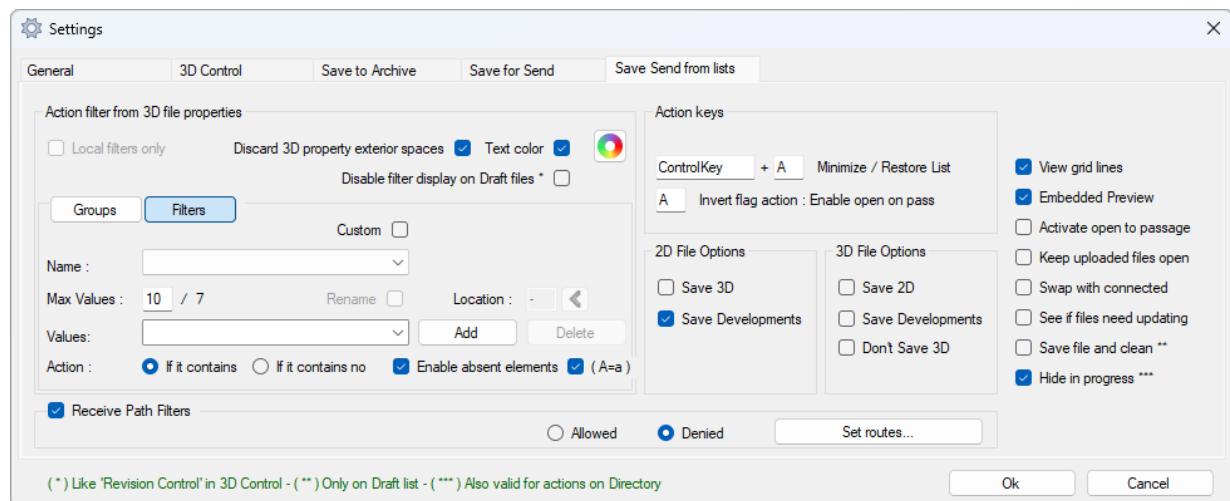
Enable Hideable Draft Layer

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

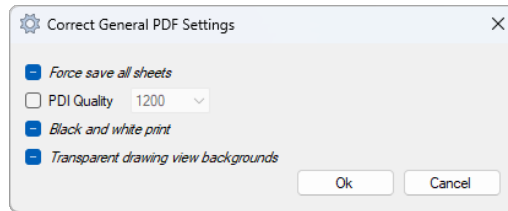
If active when closing a dirty Draft file in the list, it forces a saving to try to make it clean. This operation is nullified if after closing the Draft file its 3D is still open.

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.

PDF Settings Correction Form

In this form you can change some Solid Edge settings related to saving PDF files. There is a General setting and an additional one reserved for saving in Archive Mode. If 'Use General settings' is checked in the latter setting, the General settings will be retained.



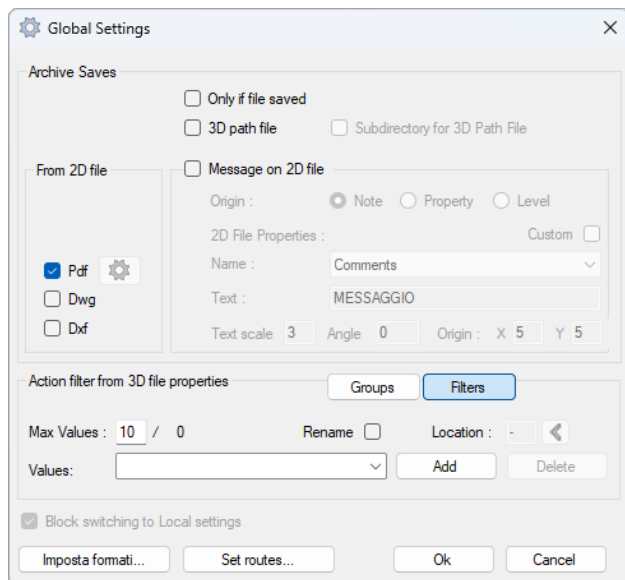
The flags:

'Force save all sheets', 'Transparent drawing view backgrounds', and 'Black and white print' have three states :

- Disabled.
- Enabled.
- As per Solid Edge settings (highlighted by italic text).

Global Settings Form

If Global Settings are active: In this form you can define global settings that will replace the same ones set in Local mode.



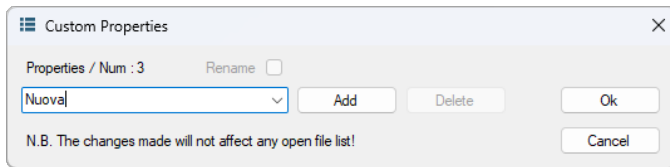
The ability to change these settings can be controlled using a password.

You can also disable the ability to switch to Locale settings outside of this form.

Custom Property Form

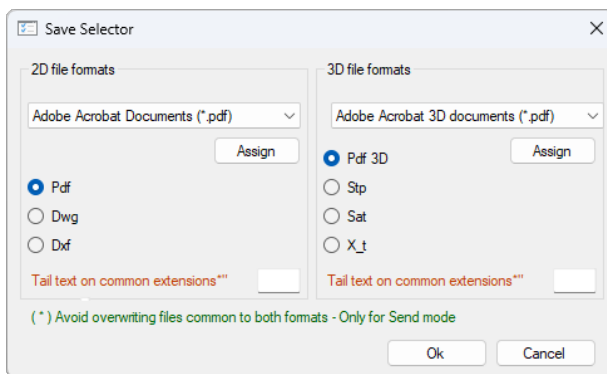
In this form you can store a list of the Custom properties of the files you want to use. Any files that do not contain the indicated properties are treated as if they had an empty property.

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



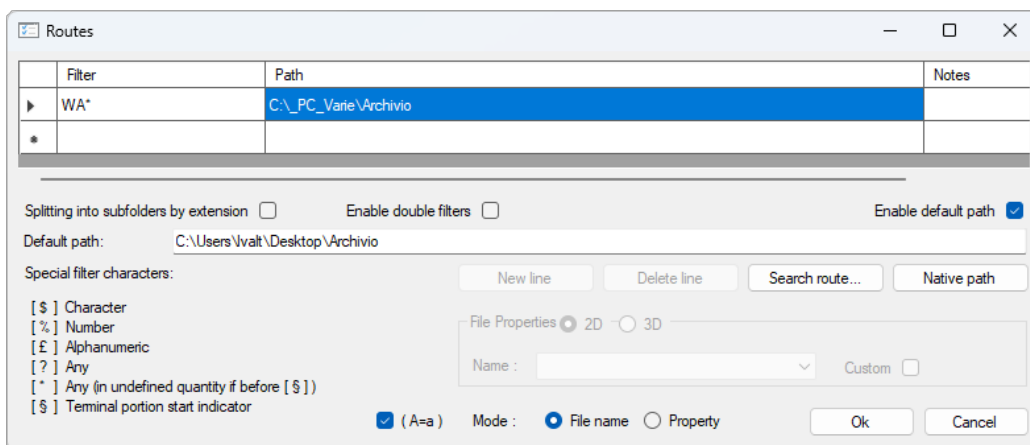
Save Selector Form

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



Paths Form

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



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.

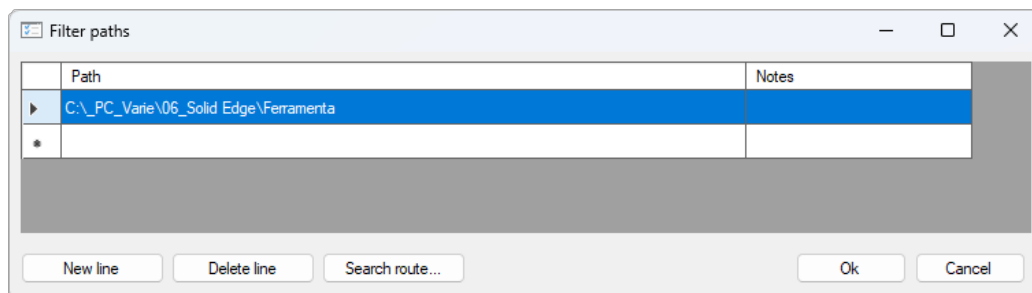
Mode :

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.



File properties : CO.001.00.asr

Path : 'C:\Varie\06_Solid Edge\Bagno\CO.001.00.asm

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.

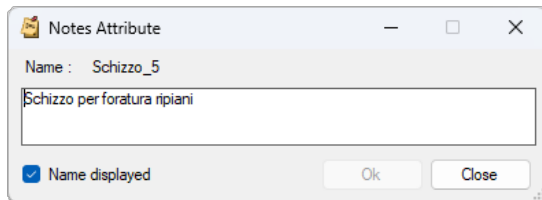
If the editor is active in the comments property and there are multiple lines, to change properties you need to use the key combination 'Control'+ 'arrow'.

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

Form Attribute Notes

This form allows you to enter, view, edit, or delete the note attribute of the element selected in the Pathfinder of the active assembly (.asm), part, and sheet metal (.par) and (.psm) files. The selection must contain only one element.

To delete an attribute, simply assign it an empty value.



Name displayed

This flag is only active with Part or Sheet Metal files.

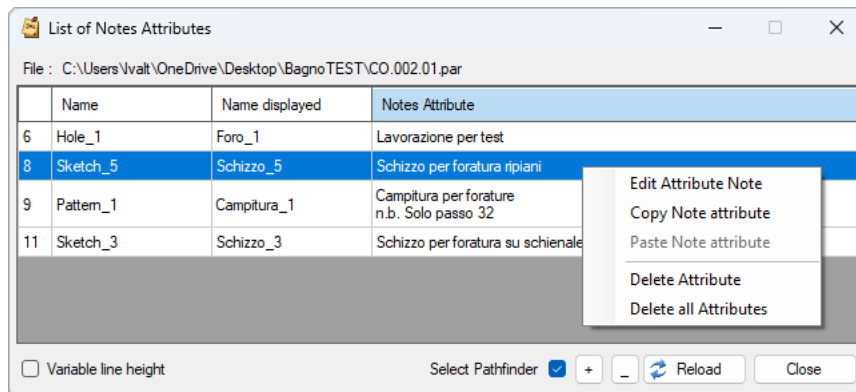
New / Ok

Button that allows you to assign, modify or delete the Note Attribute.

Form List Attributes Notes

This form allows you to view a list containing all the note attributes assigned to the active file and allows you to delete them or change their values.

If the active file is changed the open list will need to be updated manually.



Variable line height

This flag allows you to change the height of the rows as desired.

Select in Pathfinder

Select the existing file or job that contains the selected Note Attribute.

+ Opens the 'Clipboard Attribute' form.

A / - Enable / Disable automatic updating of clipboard attributes when the active file changes.

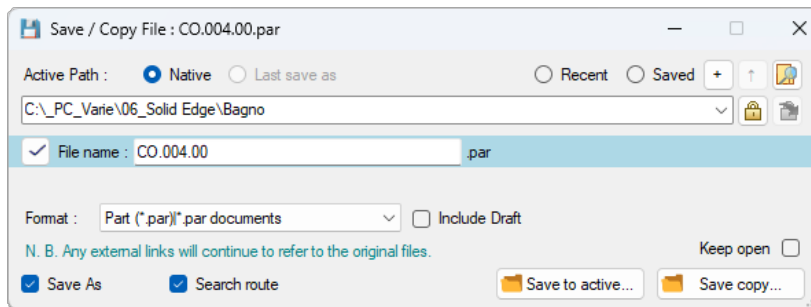
Reload

Reload the list of attributes to update it to the active file opened and restore the display of the list based on the size of the form.

By activating the flag button to its left “_”/”A” you can obtain the automatic update “A” of the data based on the activated file.

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:

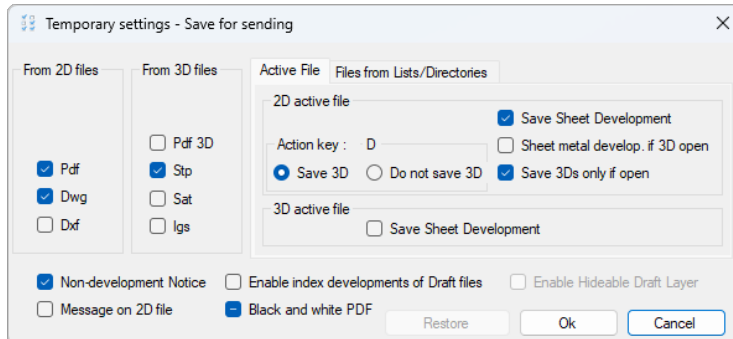
- Save the active file or its selected components (only if currently open) by deactivating the 'Save As' flag.
- Save or rename the active file or its selected components by activating the 'Save as' flag. In this case, you can search for a new path by activating the 'Search for path' flag.

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. This flag has three states :

- Disabled.
- Enabled.
- As per Solid Edge settings (highlighted by italic text).

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, Fascicle (num. and/or field) example :1,2 1-3
- Scale: None, Fit to print margins, Customise (95 %)
- Displays each print request

Buttons at the bottom: 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

	Code	n.Rev...	Path	Title	Object	p.Key	Comments	Manager
<input type="checkbox"/>	CO.001.00		C:_PC_Varie\06_Solid E...		Ass. Contenitore Specchio			
<input type="checkbox"/>	CO.002.00		C:_PC_Varie\06_Solid E...		Struttura contenitore			
<input type="checkbox"/>	CO.002.00		C:_PC_Varie\06_Solid E...		Struttura contenitore			
<input type="checkbox"/>	CO.002.01		C:_PC_Varie\06_Solid E...		Fianco Sinistro		Spessori Util...	

3D Draft List

	Code	n.Rev...	Path	Title	Object	Comments	Category	Manager	p.Key
<input type="checkbox"/>	CO.001.00		C:_PC_Varie\06_Solid Edge\Bagno\CO.001.00.asm		Ass. Conteni...	111 222 333			
<input type="checkbox"/>	CO.002.00		C:_PC_Varie\06_Solid Edge\Bagno\CO.002.00.asm		Struttura co...				
<input type="checkbox"/>	CO.002.01		C:_PC_Varie\06_Solid Edge\Bagno\CO.002.01.par		Fianco Sinis...	Spessori Util...			
<input type="checkbox"/>	CO.002.03		C:_PC_Varie\06_Solid Edge\Bagno\CO.002.03.par		Cielo/Base	Spessori Util...			
<input type="checkbox"/>	CO.002.02		C:_PC_Varie\06_Solid Edge\Bagno\CO.002.02.par		Fianco Destro	Spessori			
<input type="checkbox"/>	CO.002.04		C:_PC_Varie\06_Solid Edge\Bagno\CO.002.04.par		Schiena	Spessori Util...			
<input type="checkbox"/>	CO.003.00		C:_PC_Varie\06_Solid Edge\Bagno\CO.003.00.par			Spessori Util...			
<input type="checkbox"/>	CO.004.00		C:_PC_Varie\06_Solid Edge\Bagno\CO.004.00.par		Ripiano in v...				
<input type="checkbox"/>	CO.005.00	01	C:_PC_Varie\06_Solid Edge\Bagno\CO.005.00.par		vetro				
<input type="checkbox"/>	CO.007.00		C:_PC_Varie\06_Solid Edge\Bagno\CO.007.00.psm		Barra portap...	Barra portap...			
<input type="checkbox"/>	CO.006.00								

	Code	n.Rev...	Path	Title	Object	Comments	Category
<input type="checkbox"/>	CO.001.00		C:_PC_Varie\06_Solid Edge\Bagno\CO.001.00.dft		Ass. Conteni...		
<input checked="" type="checkbox"/>	CO.002.00		C:_PC_Varie\06_Solid Edge\Bagno\CO.002.00.dft		Struttura co...		
<input type="checkbox"/>	CO.002.01		C:_PC_Varie\06_Solid Edge\Bagno\CO.002.01.dft		Fianco Sinis...	Spessori Util...	
<input type="checkbox"/>	CO.002.03		C:_PC_Varie\06_Solid Edge\Bagno\CO.002.03.dft		Cielo/Base	Spessori Util...	
<input type="checkbox"/>	CO.002.02		C:_PC_Varie\06_Solid Edge\Bagno\CO.002.02.dft		Fianco Destro	Spessori	
<input type="checkbox"/>	CO.002.04		C:_PC_Varie\06_Solid Edge\Bagno\CO.002.04.dft		Schiena	Spessori Util...	
<input type="checkbox"/>	CO.003.00		C:_PC_Varie\06_Solid Edge\Bagno\CO.003.00.dft			Spessori Util...	
<input type="checkbox"/>	CO.004.00		C:_PC_Varie\06_Solid Edge\Bagno\CO.004.00.dft		Ripiano in v...		

- 
 - *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
Yellow	Actions Cancelled

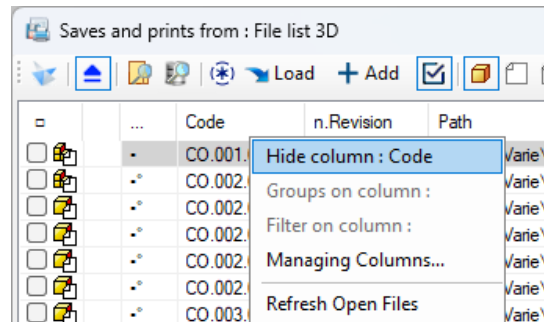
At the top of the list are the column titles, the first ones on the left, which cannot be sorted horizontally, represent the status of the files in the list, the ones on the right, which can be sorted horizontally, represent the standard Solid Edge properties relating to the 3D file.

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:

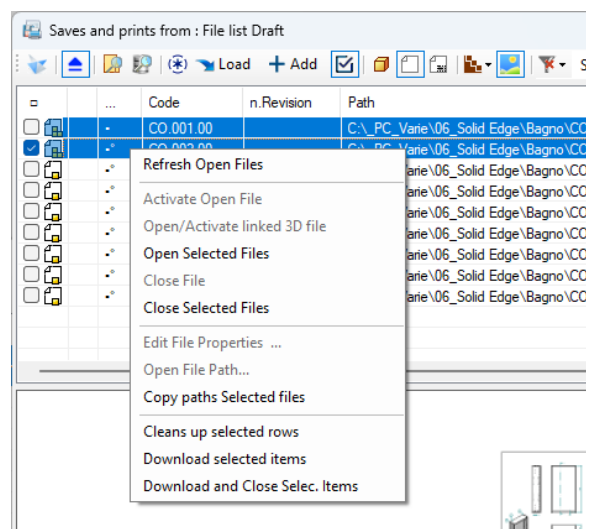
Menu Columns :

- *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.



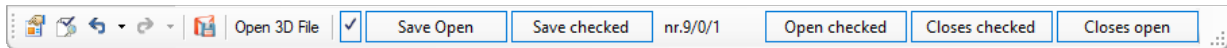
File List Menu :

- *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).

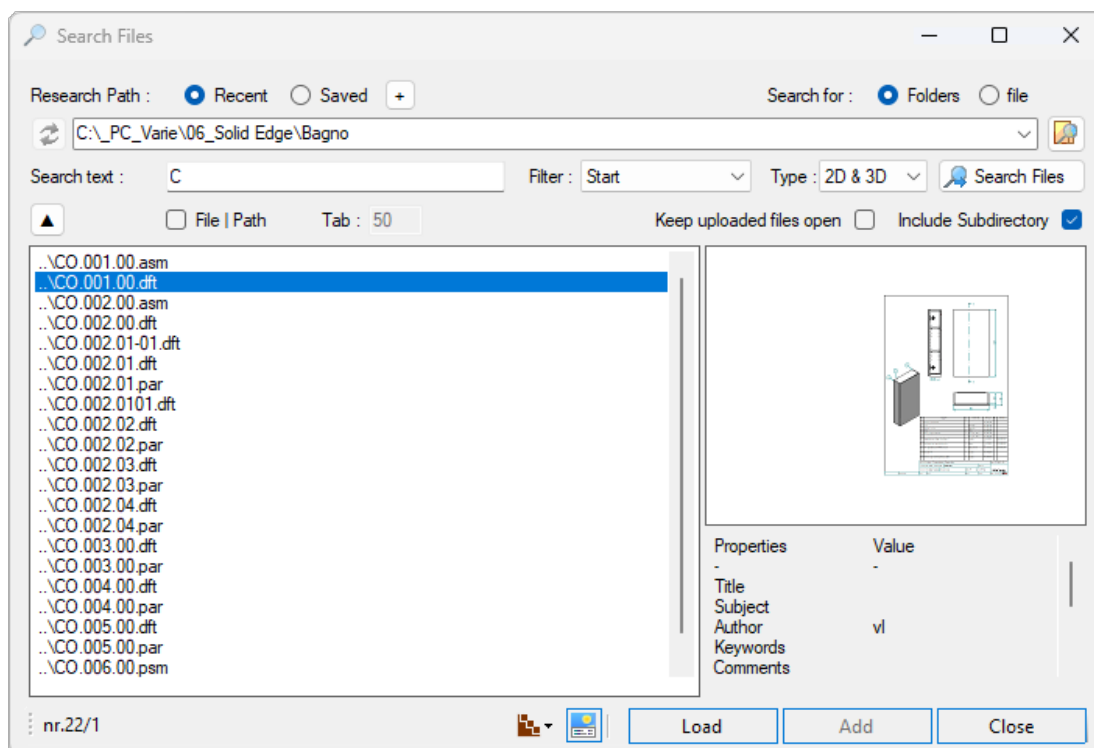
The two buttons allow you to close in Solid Edge the files indicated as open (only in the '3D-Draft List' list) or selected in the list.

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.

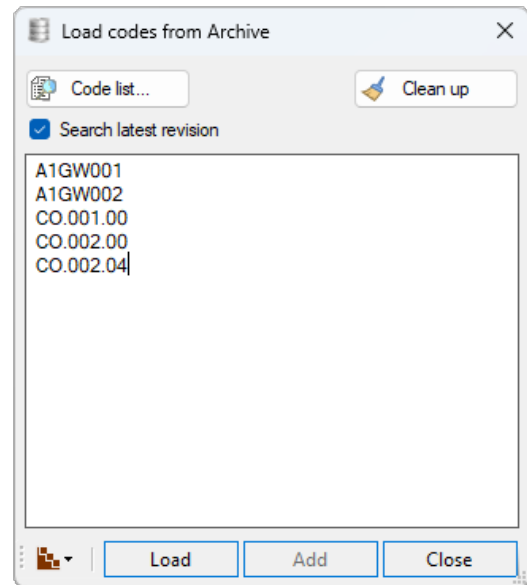
With the 'Add' button the selected files will be added to the 'List Actions Form' list and the search form will be closed.

The Close button closes the form without performing any operation.

Load Codes from Archive Form

If the “3D File Path” option is enabled, you can enter the codes (file names) saved in Archive mode paths in this form, provided they were saved in a directory other than “Default” or the “Default” directory is not set to <Native>.

The codes entered can be used to generate a new file list or to be appended to an existing file list.



You can insert code directly into the editor, or load it from one or more text files containing it.

If you use the revision extension in Draft files, you can force the search for a code file with the most recent revision.

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:

- **Group / Filter**
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.
 - **Initial**
If 'Filter', the filter must begin with the text in the property.
If '3D Property Text', the property must begin with the text in the filter.
 - **End**
If 'Filter', the filter must end with the text in the property.
If '3D Property Text', the property must end with the text in the filter.
 - **Content**
If 'Filter', the filter must contain the text in the 3D property.
If '3D Property Text', the property must contain the text in the filter.

The screenshot shows the 'Action filters' dialog box. It is divided into two main panels: 'Groups' and 'Filters'.
- The 'Groups' panel has a dropdown menu set to '3D properties : Manager' and a list of two items: 'Prod. Interna' and 'Prod. Esterna', each with an unchecked checkbox.
- The 'Filters' panel has a dropdown menu set to '3D properties : Category' and a list of six items: 'Generico', 'Vetro', 'Legno', 'Comp Saldato', 'Componente', 'Lamiera', and 'Metallo', each with an unchecked checkbox.
- At the bottom of the dialog, there are two checked checkboxes: 'Absent elements' and '(A=a)'. Below them are two radio buttons: 'If it contains' (which is selected) and 'If it contains no'.
- There are also two buttons: 'Ignore groups' and 'Use groups'.
- At the bottom right, there are 'Ok' and 'Cancel' buttons.

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.

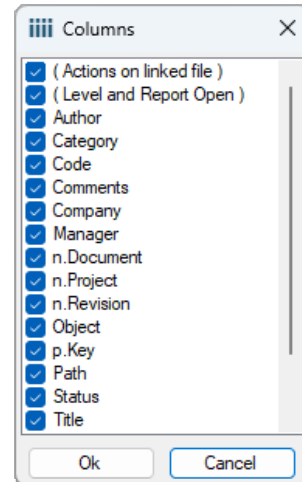
Furthermore, the truthfulness of the filter can be chosen between the two options 'If contains' or 'If does not contain'.

Column Forms

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

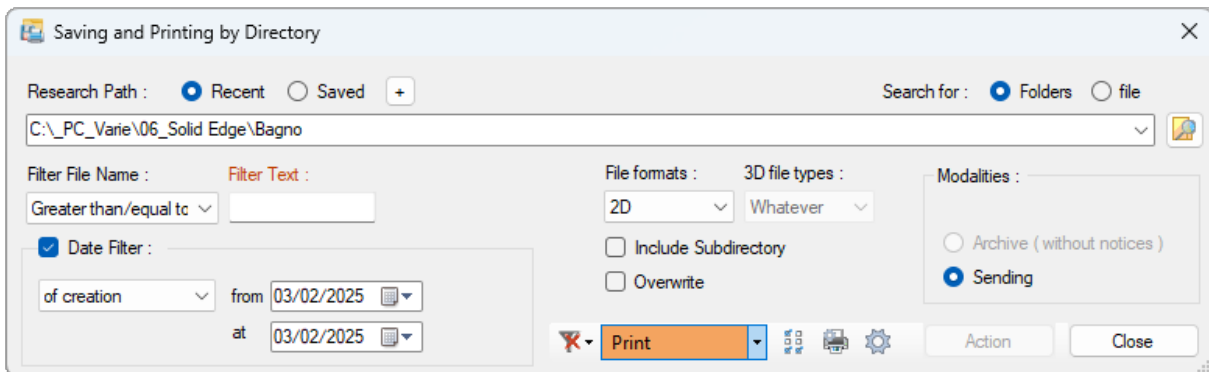
This form is accessible by right-clicking on the column names in the file list.

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

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 Action Close

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

Increment Mode

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 # Byfield Type: 0-9 A-Z a-z Initial value: A

Boost mode Properties with formulas Types: No update Confirm overwrite Action Close

Notes 1st Separator character = ; 2nd First character: @ = original value, @@ = incremented original value, If Properties with fomulas, 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

The fields for defining the file modification formulas must be inserted in the grid below. The first column will contain the type of object to be modified, Variable (Quote or Variable) or Property. If the active document has Variables and Properties that share the same name, by prefixing the name with “[V]” or “[P]” you can decide whether to use the Variable or the Property. The second column will contain the name and original value of the indicated object (variable or property). The following columns (only one in increment mode) must contain the modification formulas for the object relating to the files to be created.

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 of object :

Entering '@' 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 Variable or Property type (if the 'Property with formulas' flag is active): Numeric values and variable or Property names with numeric values can be enclosed in parentheses '()', while text must be entered between double quotation marks "". The arithmetic operators '+-*/' can be used.

IF Function :

The IF(Op1.Op2 : A : B) function, based on the result of the comparison of the operators 'Op1.Op2', returns the value of 'A' if the condition is True, and 'B' if it is 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 IF() function can be extended to IF(Op1.Op2 OpCompare Op3.Op4 : A : B) using one of the following comparison operators :

- OR True if 1 of the 2 comparisons is true.
- AND True if both comparisons are true.
- XOR True if only one of the 2 comparisons is true.

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

ABS Function :

The ABS(X) function returns the absolute value of the X operator.

INT Function :

The INT(X) function returns the minimum integer value without decimal places for the X operator.

By object type (Property if the 'Property with formulas' flag is active) :

The sum of two text type Properties both containing a value convertible to a number will return the sum. If you want the concatenation of the values, you must separate the two Property names with a field of double quotes.

Example: Text Property A = 10 + Text Property B = 20

A + B = 30
A + "" + B = 1020

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

All text will be free of formulas and fields must not be separated by double quotes. All arithmetic operators will be disabled. In 'Increment Mode', the use of the constant formula ">" and the constant increment formula @[.. / @@[.. will still be allowed, as explained in the relevant section.

Columns Mode

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

Boost Mode

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

Constant formula

In this mode, entering the '>' character as the first character of the last field will allow the formula contained therein to be used for all remaining files to be created.

Constant Increment formula

In this mode, you can enter a constant increment formula as the last field to define the increment value (or formula) to use for all remaining files to be created:

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

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

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

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

[000] Fill mask for the 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..

Esempi :

Object X of value 2 for 4 files to create : @@[0-9][A-Z][10][00] = 00C,00M,00W,016

Object X of value 2 for 4 files to create : @@[0-9][A-Z][10][00][Dx] = C00,M00,W00,160

Object X of value 2 for 4 files to create : @@[0-9][A-Z][10][#][00] = 00C,00M,00W,0Z6

Object X of value 2 for 4 files to create : @@[0-9][A-Z][10][#][00][Dx] = C00,M00,W00,Z60

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.

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 'Properties with formulas' flag is disabled) into the currently active cell of the grid together with the selected operator.

Section : Create File Name (for Columns Mode)

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

Section : Create incremental files (for Increment Mode)

Allows you to define how the names of new files are created by setting :

The positive or negative increment value.

The starting value of the increment.

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

The possibility of incrementing by field (the increment moves to the next field if the current field is no longer incrementable).

The possibility of using a fill-in mask and whether it should use the fields to the right last.

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 for obtaining 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 how modified Variables and Properties are updated when saving files :

No Update, Update to Latest File, and Update Now.

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

Overwrite confirmation

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



Save button

Allows you to save the grid state along with the settings of the blue fields in a file with the same name as the active file (this action can also be performed using 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.