



DFM Studio

DFM Studio
Quick Start Guide

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Elysium Co. Ltd.

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1. How to Create Result File (*.far)

There are two ways to create the check result file (*.far).

A. With ASFALIS TransServer

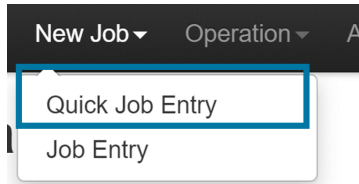
- Specify the target file via web browser, and the check will run on a client computer (ASFALIS Slave Node). Multiple users can submit check Jobs concurrently, and all Jobs are managed in ASFALIS TransServer. The check result files (*.far) will be downloadable from the web browser once the Job is completed.

B. With ASFALIS SmartLauncher

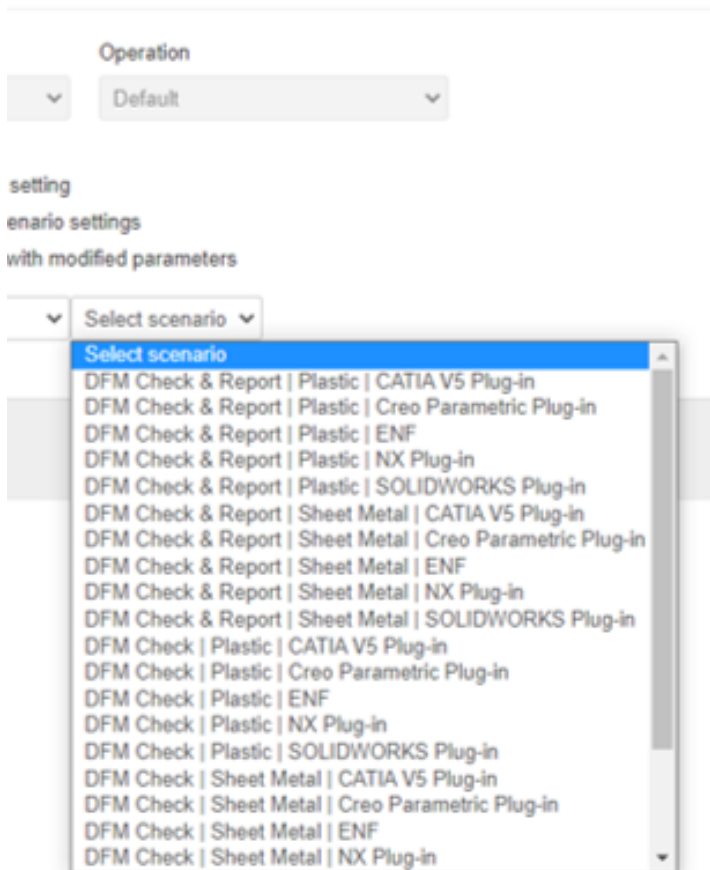
- Run the check from either the plug-in menu in CAD systems, or the context menu in Windows Explorer. The check will run on a computer which ASFALIS SmartLauncher is running, and the check result files (*.far) will be output to the specified file paths.
 - The plug-in is available for the following CAD systems only;
 - Creo Parametric
 - NX
 - SOLIDWORKS

1.1. With ASFALIS TransServer

1. Log in to ASFALIS TransServer.
2. Create a Job.
 - Below shows how to create a Job with [Quick Job Entry].



3. Select a Scenario.
 - In this section, we will use "DFM Check | Plastic | CATIA V5 Plug-in" Scenario to check the manufacturability on a CATIA V5 model as an example.



- Select "DFM Check & Report | Plastic | CATIA V5 Plug-in" Scenario to export a result report as well. It requires a license of DFM Studio Reporter.



Please contact to your administrator to run DFM check with different parameter settings.

Please refer to "DFM_Studio_CheckItem_Guide_Plastic_en.pdf" / "DFM_Studio_CheckItem_Guide_SheetMetal_en.pdf" for the details about check criteria and parameters.



1. Select the Scenario to edit parameter settings from [Administration] > [Scenario Administration].
2. Open "DFM Studio Checker (dscheck)" Component at "Component Settings", and then open "Settings for Customized Scripts | Upload (argumentfile_upload)" parameter.
3. Click [Upload] to upload the customized parameter file.
4. Click [Update] at the bottom of the page to reflect the changes.

4. Click [Choose Files [select file ats]] to specify the input file (*.CATPart).
 - The specified input file will be uploaded to ASFALIS TransServer, and the Job will be processed on a client computer (ASFALIS Slave Node).
 - You can check the Job status, download the result, etc. in "Operation Monitor" page.

Job ID	Input File	Created at	Created by	Scenario	Status	Priority	Run at night	
113	sample.plastic_enf.CATPart (695KB)	09/21 09:13	Administrator(admin)	DFM Check & Report Plastic CATIA V5 Plug-in	succeeded	Low	<input type="checkbox"/>	 

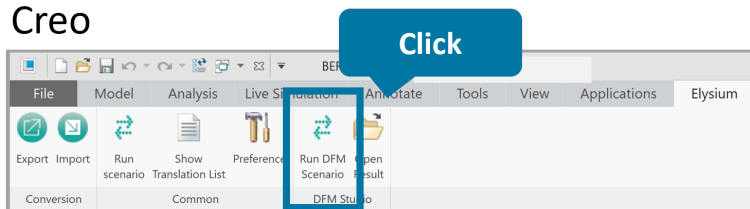
5. Download the check result file (*.far) in "Operation Monitor" page.
 - Analyze the check result (*.far) in DFM Studio Inspector and Model Viewer.
 - Please refer to "DFM_Studio_Inspector_Manual_en.pdf" for the details about DFM Studio Inspector and Model Viewer.

1.2. With ASFALIS SmartLauncher

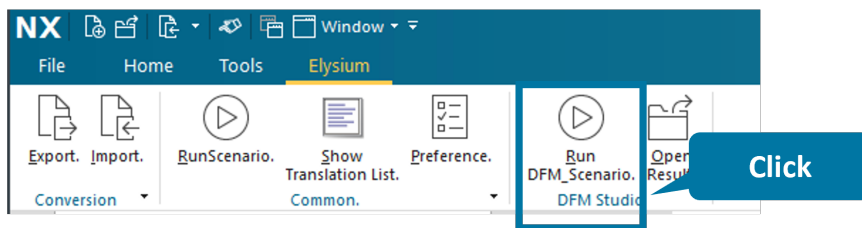
1. Launch "Run Scenario" dialog.

- Click [Elysium] > [Run DFM Scenario] from the plug-in menu. The CAD model opened in the CAD system will be used as the input model.

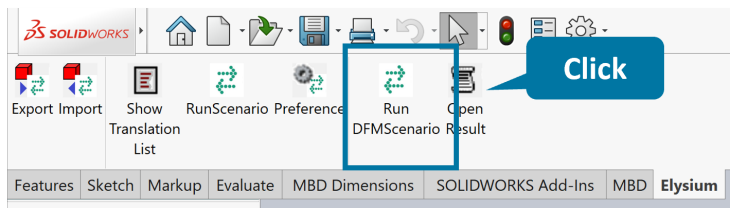
Creo



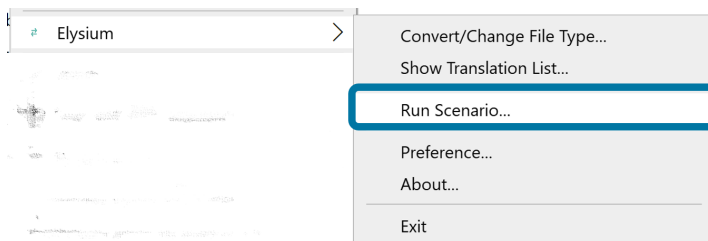
NX



SOLIDWORKS



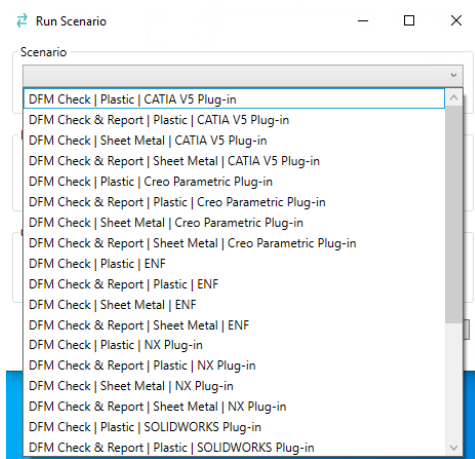
- Select [Elysium] > [Run Scenario] from the Windows Explorer context menu. The selected CAD model will be used as the input model.



2. Select a Scenario and parameter settings in "Run Scenario" dialog.

a. Select a Scenario.

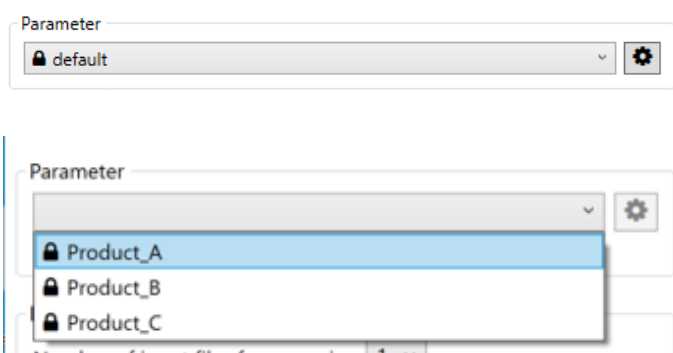
In this section, we will use "DFM Check | Sheet Metal | Creo Parametric Plug-in" Scenario to check a Creo Parametric model as an example.




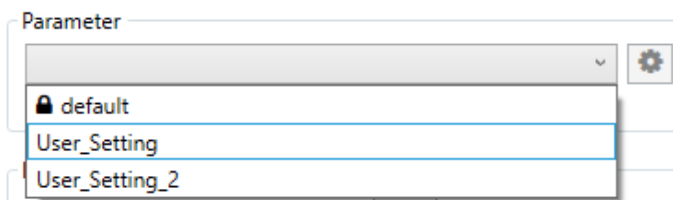
- Select "DFM Check & Report | Sheet Metal | Creo Parametric Plug-in" Scenario to export a result report as well. It requires a license of DFM Studio Reporter.


b. Select parameter settings from the pull-down list.

- "default" is pre-set for the check on plastic models, and "model_check" and "requirement_check" for sheet metal models.
- System Admin is authorized to register parameter settings on DFM check beforehand, and they will also be available in the pull-down list.



-  on the left of parameter settings means that it is registered by System Admin and is uneditable. Save it as a different name to customize for your needs.



c. Click  to launch Parameter Settings Tool, and view the details of the selected setting, customize the registered settings, etc.

- Microsoft Excel is a prerequisite to launch Parameter Settings tool.
Refer to [1.3, "Edit Parameter Settings on DFM Check with Parameter Settings Tool"](#) for details about the Check Parameter Settings Tool.

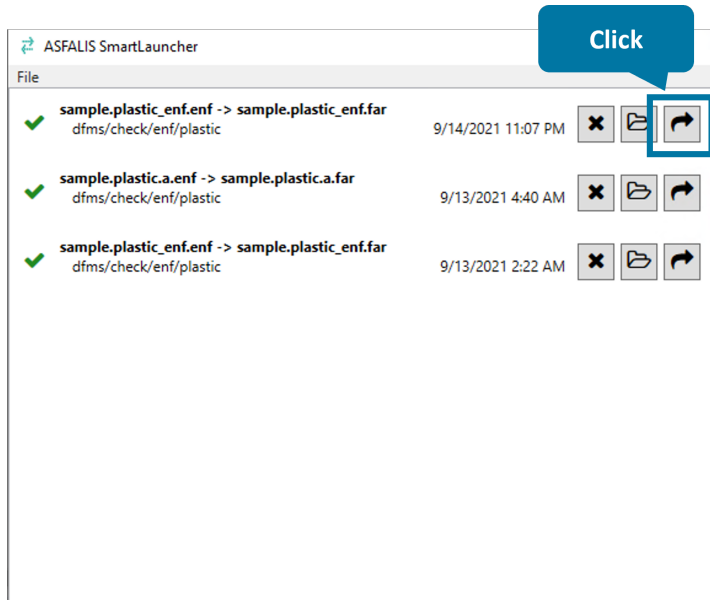
3. Specify the output folder, and then click [OK] to submit a Job.



Output

Folder :

☒ Create export date time sub directory

- "Translation list" will appear once the Job is in progress. You can check the progress, and view the result of completed Jobs, etc.



4. Select a Job, and click  to open the check result file (*.far) in DFM Studio Inspector.
 - Select a Job, and click  to open the output folder of the check result file (*.far).
 - Analyze the check result file (*.far) in DFM Studio Inspector and Model Viewer.
Please refer to "DFM_Studio_Inspector_Manual_en.pdf" for the details about DFM Studio Inspector and Model Viewer.

1.3. Edit Parameter Settings on DFM Check with Parameter Settings Tool

This section will explain how to edit parameter settings on DFM check using Parameter Settings Tool. Please refer to "DFM_Studio_Parameter_Settings_Tool_User_Manual_en.pdf" for detail operations.

DFM Studio Parameter Settings Tool					
Please refer to "Check Criteria Guide" for the details of each parameter.					
<div> <div>Enable/Disable All</div> <div>Save As</div> <div>Overwrite</div> <div>Exit</div> <div>Delete Parameter File</div> <div>About</div> </div>					
On/Off	Category	Parameter type	Parameter name	Value	
On	1.1 Thick wall	For DFM check	Thick wall Max. thickness tol	3.5	
On	1.1 Thick wall	For DFM check	Thick wall Max. deviation (+) tol from standard thickness	1.2	
On	1.1 Thick wall	For feature recognition	Thick wall Target by min. angle tol between faces	130.0	
On	1.1 Thick wall	For feature recognition	Whether to calculate deviation (+) from standard thickness	FALSE	
On	1.2 Thin wall	For DFM check	Thin wall Min. thickness tol	1.1	
On	1.2 Thin wall	For DFM check	Thin wall Max. deviation (-) tol from standard thickness	0.8	
On	1.2 Thin wall	For feature recognition	Thin wall Target by min. angle tol between faces	130.0	
On	1.2 Thin wall	For feature recognition	Thin wall Whether to exclude tips	FALSE	
On	1.2 Thin wall	For feature recognition	Exclude tip Max. creepage distance tol by ratio to wall thickness	3.0	
On	1.2 Thin wall	For feature recognition	Whether to calculate deviation (-) from standard thickness	FALSE	
On	2.1 Boss	For DFM check	Boss Min. draft angle tol	0.5	
On	2.1 Boss	For DFM check	Boss Max. side to base thickness ratio tol	0.8	
On	2.1 Boss	For DFM check	Boss Max. bottom to base thickness ratio tol	1.2	
On	2.1 Boss	For DFM check	Boss Max. height to outer diameter ratio tol	3.0	
On	2.1 Boss	For DFM check	Boss Min. tip width tol	1.0	

A: Enable/Disable All

Click to bulk-edit the On/Off state of all parameters.

B: Save As

Click to save the parameter setting as a different name. This is mandatory to customize parameter settings with 📁. The parameter setting will be saved to the following folder.

- When setting to apply system settings and translation settings to "Anyone who uses this computer (all users)" at the installation of ASFALIS SmartLauncher:
 - Plastic check/Plastic check (with report):
%PUBLIC%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\plastic_check\
 - Report export for plastic check:
%PUBLIC%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\plastic_report
 - Sheet metal check/Sheet metal check (with report):
%PUBLIC%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\sheet-metal_check

- Report export for sheet metal check:
%PUBLIC%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\sheet-metal_report
- When setting to apply system settings and translation settings to named user(s) only with "Only for me <UserName>" at the installation of ASFALIS SmartLauncher:
 - Plastic check/Plastic check (with report):
%LOCALAPPDATA%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\plastic_check\
 - Report export for plastic check:
%LOCALAPPDATA%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\plastic_report
 - Sheet metal check/Sheet metal check (with report):
%LOCALAPPDATA%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\sheet-metal_check
 - Report export for sheet metal check:
%LOCALAPPDATA%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\sheet-metal_report

C: Overwrite

Click to save the edits. This is enabled only when working on parameter setting without .

D: Exit

Click to close Parameter Settings Tool.

E: Delete Parameter File

Click to delete parameter file. A dialog will appear to select the parameter file to delete.

F: Table headers

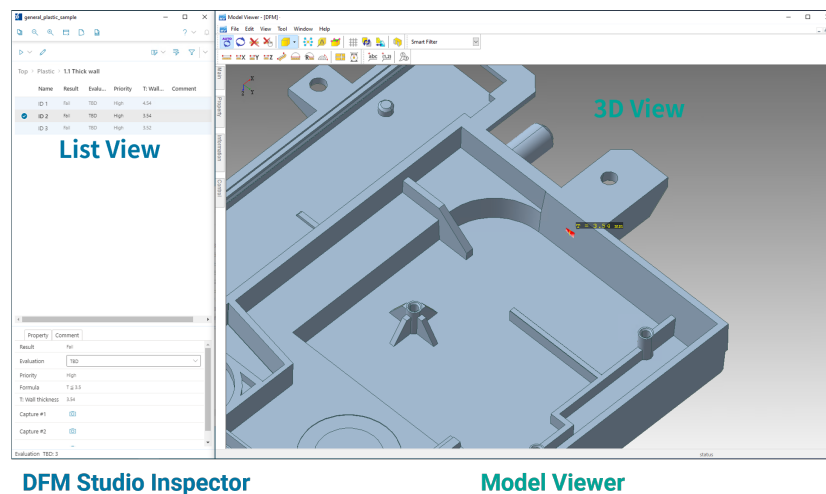
- On/Off: This column shows whether each parameter is enabled. "On" as enabled, and "Off" as disabled.
- Category: This column shows the check criteria.
- Parameter Type: This column shows the parameter category. "For feature recognition" are parameters for geometry feature recognition, and "For DFM check" are parameters (tolerances) to use for pass/fail judgement.
- DFMS Parameter name: This column shows the parameter name which will be used in DFM Studio Inspector. Please refer to "Check Criteria Guide" for the explanation of check criteria.
- Value: This column shows the parameter values.

2. Analyze the Check Result

You can analyze the check result by opening the check result file (*.far) in DFM Studio Inspector and Model Viewer, or exporting the check result report (*.xlsx) with DFM Studio Reporter.

A. With DFM Studio Inspector and Model Viewer

- You can analyze the check result in detail using DFM Studio Inspector and Model Viewer. DFM Studio Inspector shows the result in a list, so that you can sort and/or filter to reach the significant errors efficiently. Then you can visually analyze the selected checked area in Model Viewer. In Model Viewer, you can switch the view mode between 3D view with or without surroundings, 2D section view etc. for your needs.



B. With DFM Studio Reporter (* Requires a license on DFM Studio Reporter)

- You can export the check result report in Microsoft Excel format using DFM Studio Reporter. It allows the check result analysis without the installation of DFM Studio Inspector and Model Viewer. The report includes images of auto-captured best view of each checked area so that you can analyze and judge without opening 3D models.

AutoSave

general_plastic_sample.xlsx

Search

FileHomeInsertPage LayoutFormulasDataReviewViewDeveloperHelp

ShareComments

B1

2.1 Boss

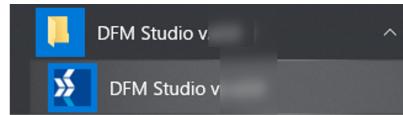
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		1	2	3	4	5	6	7	8	9	10	11	12	13	14			

2.1. With DFM Studio Inspector

1. Launch DFM Studio Inspector (hereinafter "Inspector") from either the Windows Start menu or the desktop shortcut.
 - This will also ask for confirmation to launch Model Viewer.

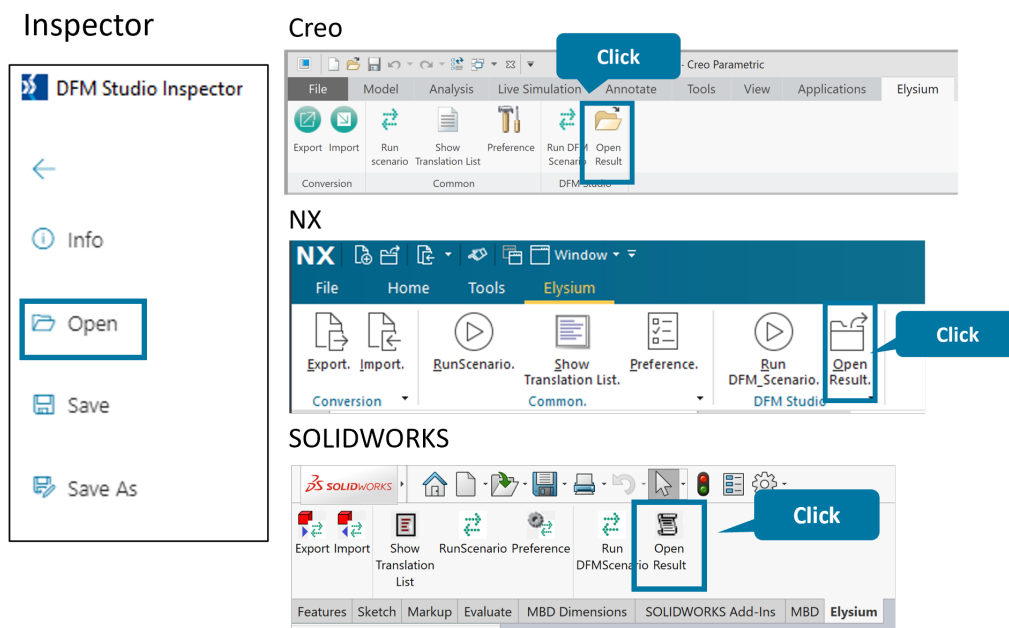


Shortcut

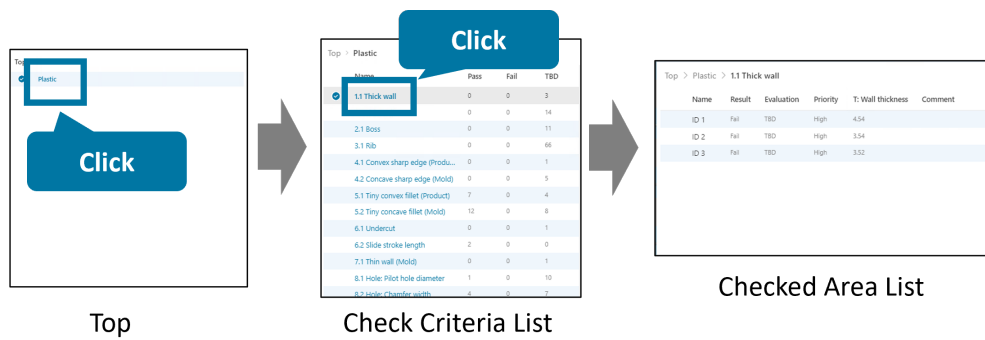


Start Menu

2. Open the check result file (*.far) in Inspector by either from [Menu Bar] > [File] > [Open] in Inspector, dragging-and-dropping the file, the translation list of ASFALIS SmartLauncher, or [Menu Bar] > [Open Result] of ASFALIS SmartLauncher CAD plug-in.
 - It requires a license on CAD Connector to open the result file from ASFALIS SmartLauncher CAD plug-in.

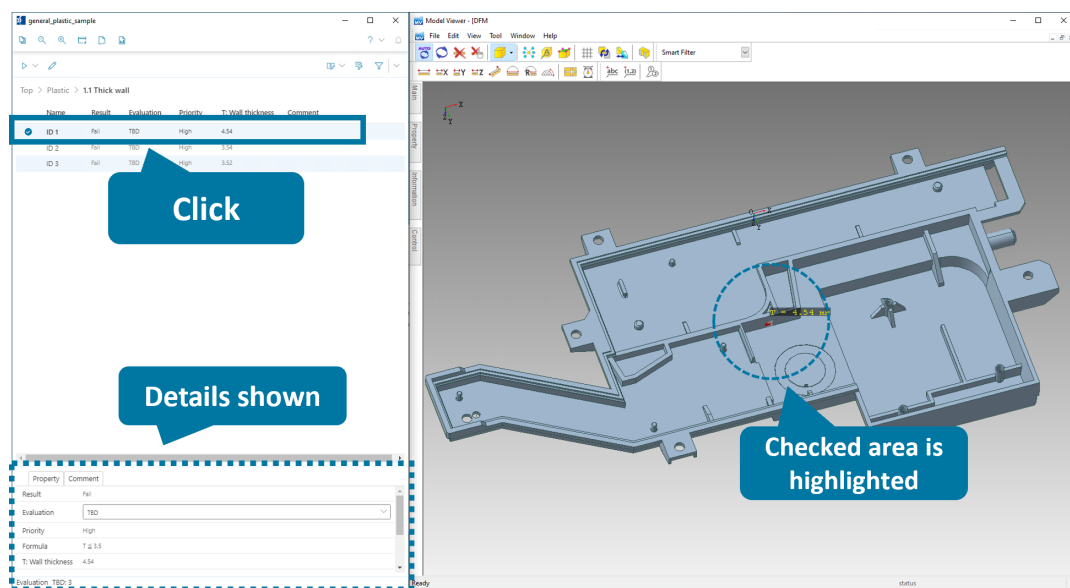


- Once the check result file is opened in Inspector, the corresponding 3D model will be opened in Model Viewer automatically.
 - You can synchronize the 3D view between the CAD system and Model Viewer when opening the result file from the CAD plug-in.
3. Select a check result in Item List, and then select a check criterion to analyze.

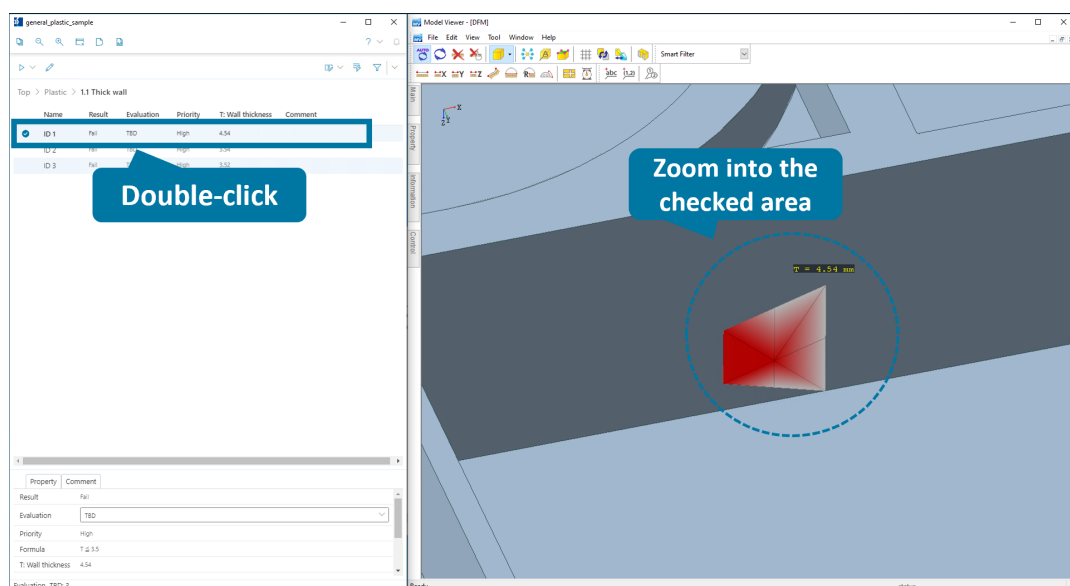


4. Select a checked area under the selected check criterion.

- Details of the selected checked area will be shown in Property List, and the selected checked area will be highlighted in Model Viewer.

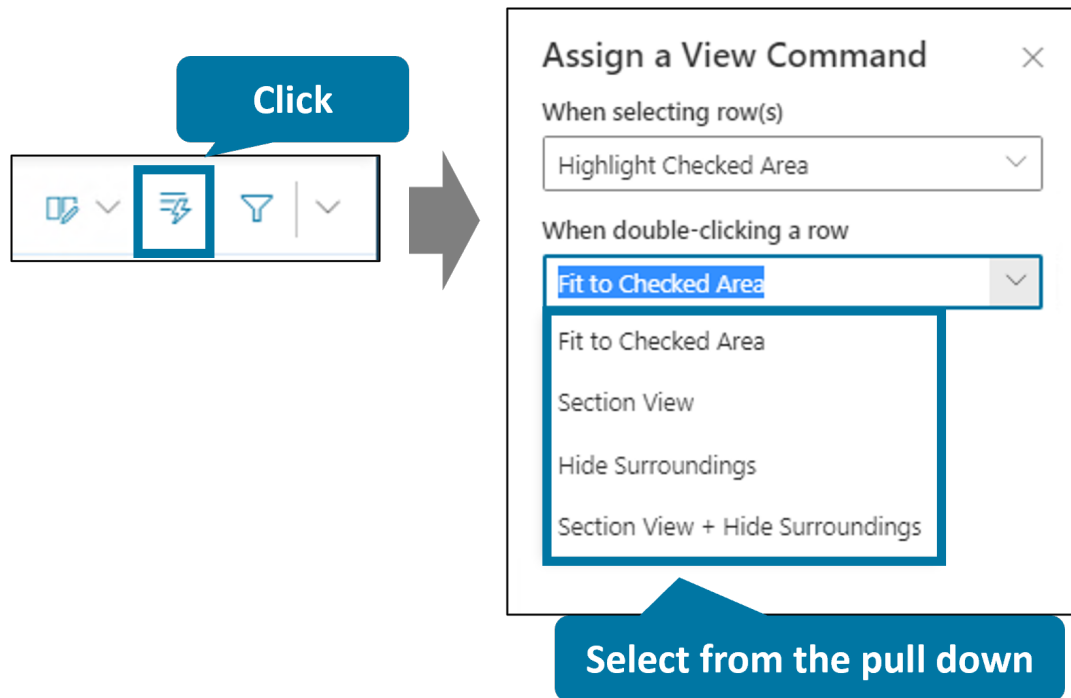


- Double-click a checked area to zoom it up.

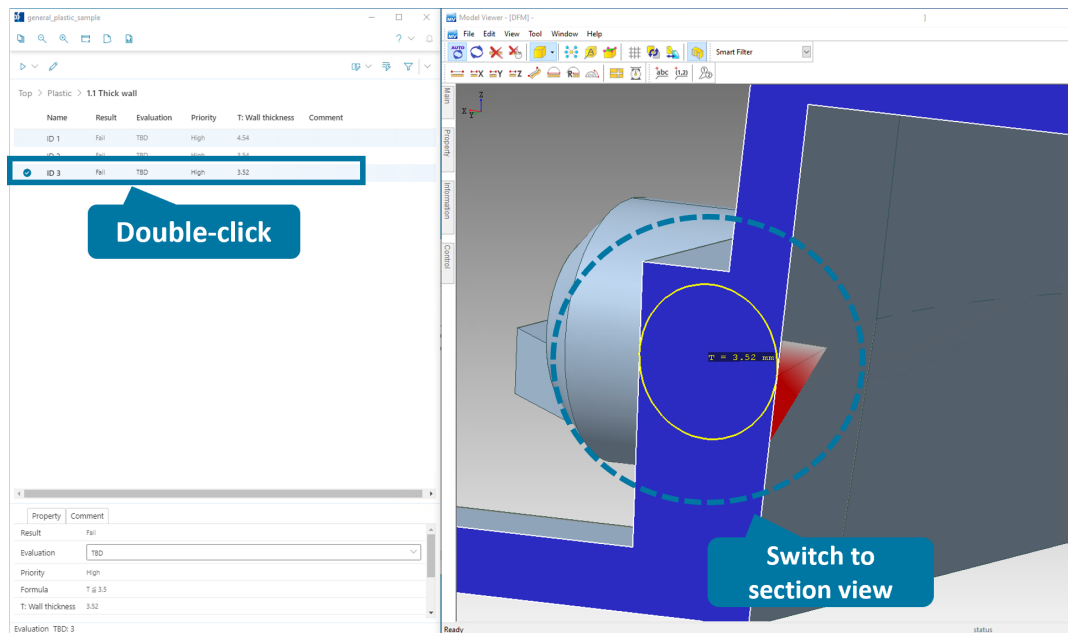


5. Analyze each checked area examining the information in Property List and Model Viewer.

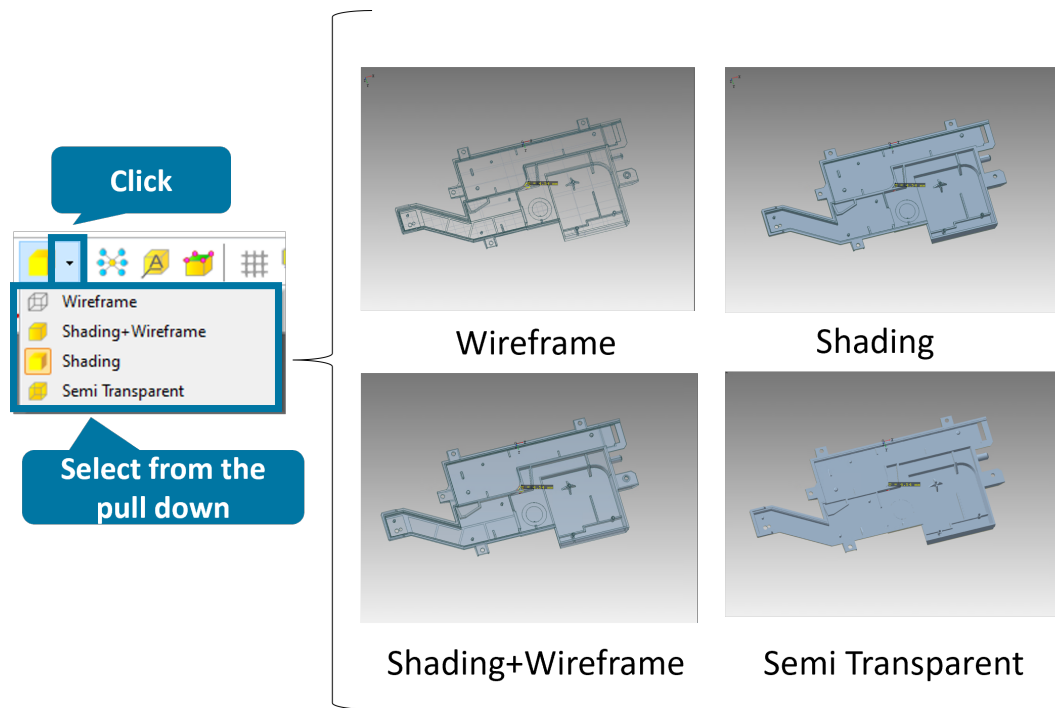
- Select [Command Bar] > [Assign a View Operation] in Inspector to assign another operation, e.g., [Section View] and [Hide Surroundings], to double-clicking a checked area.



- 3D View of Model Viewer will be switched to section view when [Section View] is selected for [Assign a View Operation] > [When double-clicking a row].

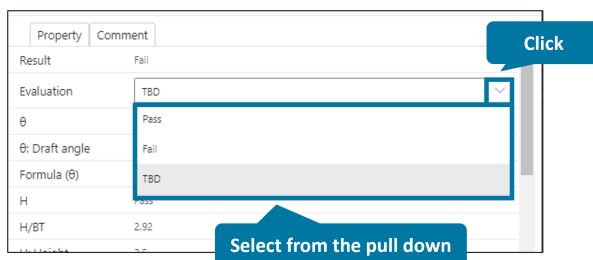


- Use commands in Tool Bar of Model Viewer to change the view mode, display method, etc.

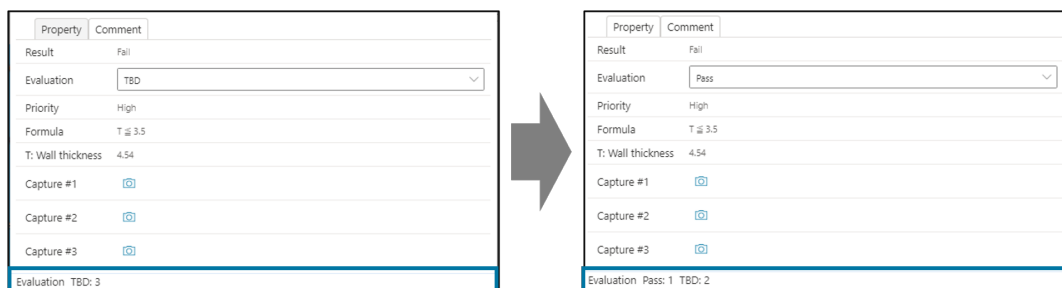


6. Update the value of "Evaluation" property to add the judgement to each checked area.

- The value "Pass" means "Passed", "Fail" means "Failed", and "TBD" means "To be determined" respectively. Checked areas that passed the check will be marked as "Pass", and those that did not pass the check as "TBD" by default.

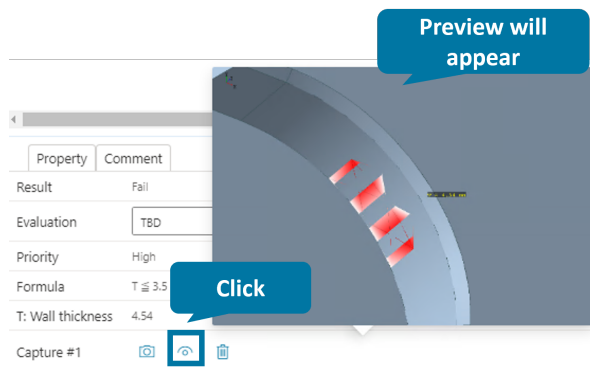


- Status Bar will be updated as you update the value for "Evaluation" property.

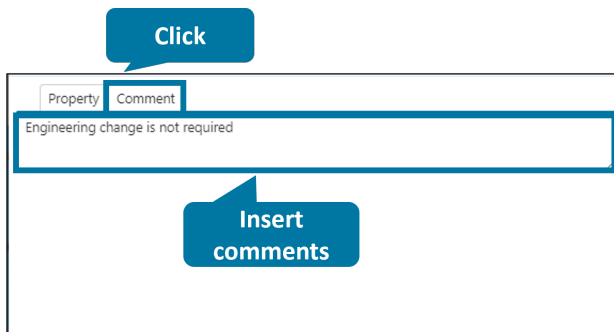


7. Click [Capture Current View] to take a capture of the 3D View in Model Viewer.

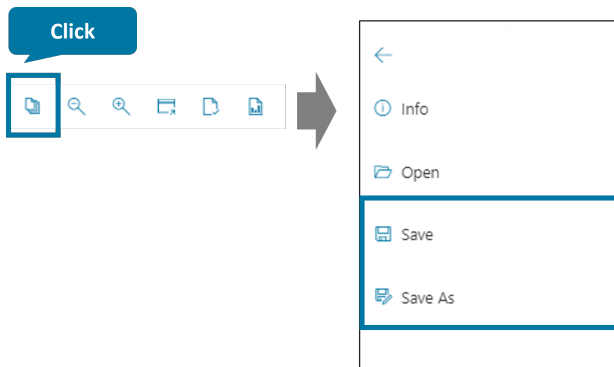
- Click [Show] to preview the saved view, [Delete] to delete the saved view, and [Capture Current View] to retake a capture.



8. Add a comment to each checked area at "Comment" property in Property List.



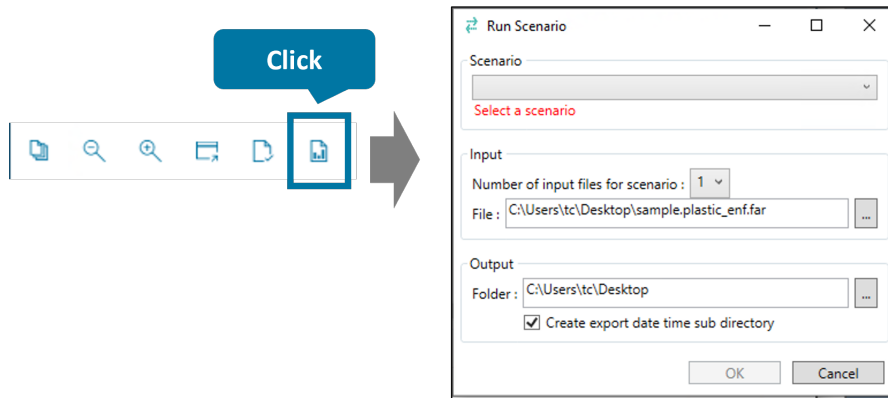
9. Analyze the checked areas and update "Evaluation" property, add a capture, and/or add a comment, and then select [Menu Bar] > [File] > [Save] in Inspector to save the edits.



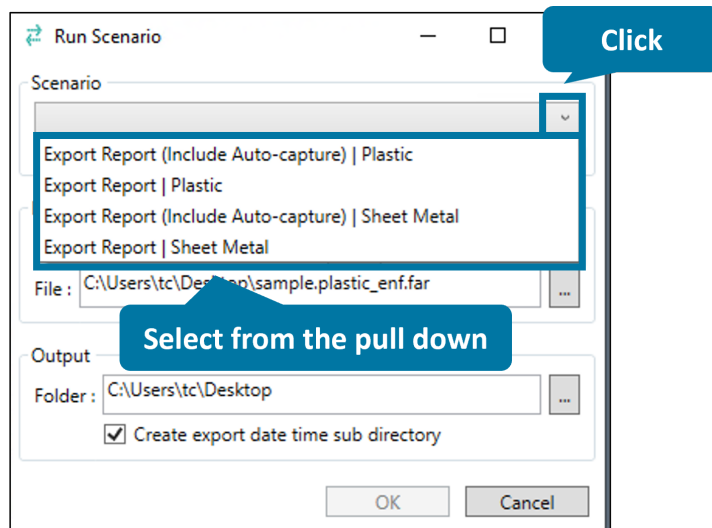
- You can utilize the check result file (*.far) as a proof that the product/mold is designed in conformity to the standards, basis for decision of engineering changes, etc.


2.2. With DFM Studio Reporter

1. Click [Menu Bar] > [Export Report] in Inspector to launch "Run Scenario" dialog.
 - The result file (*.far) currently opened in Inspector will be auto-set as the input file. A message will appear to prompt you to save edits when unsaved changes exist.




2. Select a Scenario.
 - Select "Export Report | Plastic" Scenario or "Export Report | Sheet Metal" to create a report with captures saved in the input file (*.far) only for plastic check or sheet metal check result respectively.
 - Select "Export Report (Include Auto-capture) | Plastic" / "Export Report (Include Auto-capture) | Sheet Metal" Scenario to create a report with captures saved in the input file (*.far) as well as auto-created captures of the whole image and a zoomed image of each checked area.

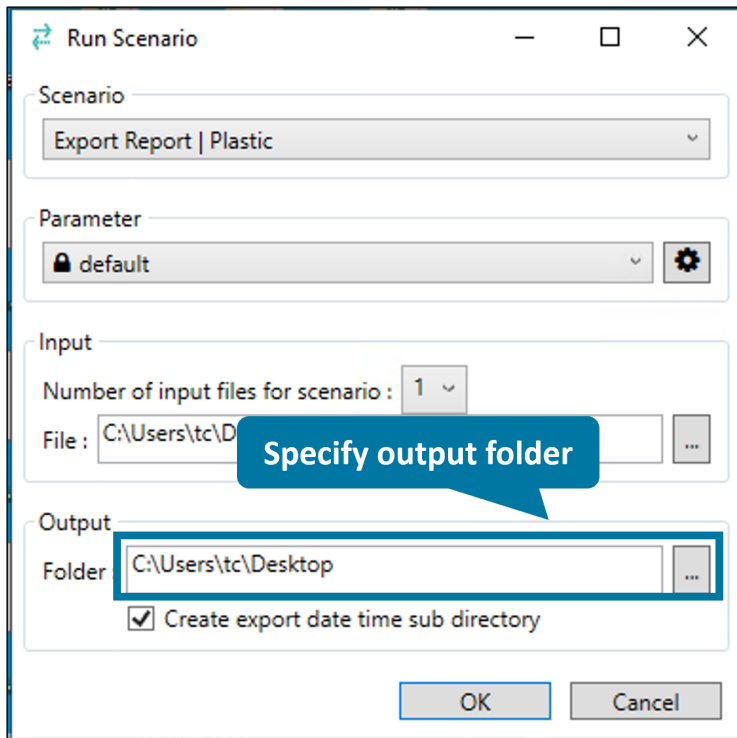


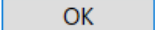

3. Select a Parameter.
 - [default] is pre-set.
 - System Admin is authorized to register parameter settings on report export beforehand, and they will also be available in the pull-down list.
 -  on the left of parameter settings means that it is registered by System Admin and is

uneditable. Save it as a different name to customize for your needs.

- Click  to launch Parameter Settings Tool, and view the details of the selected setting, customize the registered settings, etc. Refer to 2.3, “[Edit Parameter Settings on Report Export with Parameter Settings Tool](#)” for details about the Report Export Parameter Setting Tool.

4. Specify the output folder.



5. Click [OK ] to export a report.
6. Click [Open output directory ] in the translation list of ASFALIS SmartLauncher to open the output folder once the Job is completed.
 - You can utilize the check result report in Microsoft Excel format as a proof that the product/mold is designed in conformity to the standards, share it among related persons as the basis for decision of engineering changes, etc.




Microsoft Excel needs to be installed onto the machine to export the report (version: Microsoft Excel for Microsoft 365 MSO (16.0.14026.20202)).

2.3. Edit Parameter Settings on Report Export with Parameter Settings Tool

This section will explain how to edit parameter settings on report export using Parameter Settings Tool. Refer to "DFM_Studio_Parameter_Settings_Tool_User_Manual_en.pdf" for detail operations.

DFM Studio Parameter Settings Tool					
Please refer to "Check Criteria Guide" for the details of each parameter.					
<div> <div>Enable/Disable All</div> <div>Save As</div> <div>Overwrite</div> <div>Exit</div> <div>Delete Parameter File</div> <div>About</div> </div>					
On/Off	Category	Parameter type	Parameter name	Value	
None	1.1 Thick wall	For report	Whether to include in report	TRUE	
None	1.2 Thin wall	For report	Whether to include in report	TRUE	
None	2.1 Boss	For report	Whether to include in report	TRUE	
None	3.1 Rib	For report	Whether to include in report	TRUE	
None	4.1 Convex sharp edge (Product)	For report	Whether to include in report	TRUE	
None	4.2 Concave sharp edge (Mold)	For report	Whether to include in report	TRUE	
None	5.1 Tiny convex fillet (Product)	For report	Whether to include in report	TRUE	
None	5.2 Tiny concave fillet (Mold)	For report	Whether to include in report	TRUE	
None	6.1 Undercut	For report	Whether to include in report	TRUE	
None	6.2 Slide stroke length	For report	Whether to include in report	TRUE	
None	7.1 Thin wall (Mold)	For report	Whether to include in report	TRUE	
None	8.1 Hole: Pilot hole diameter	For report	Whether to include in report	TRUE	
None	8.2 Hole: Chamfer width	For report	Whether to include in report	TRUE	
None	8.3 Hole: Through or blind	For report	Whether to include in report	TRUE	
None	8.4 Hole: Depth / Pilot hole diameter ratio	For report	Whether to include in report	TRUE	
None	8.5 Hole: Distance between holes	For report	Whether to include in report	TRUE	
None	8.6 Hole: Hole information	For report	Whether to include in report	TRUE	
None	9.1 Draft angle	For report	Whether to include in report	TRUE	
None	A.1 Bounding box size	For report	Whether to include in report	TRUE	
None	A.2 Volume	For report	Whether to include in report	TRUE	
None	A.3 Projection area size	For report	Whether to include in report	TRUE	
None	A.4 Bounding box size (XYZ)	For report	Whether to include in report	TRUE	
None	A.5 Projection area size (XYZ)	For report	Whether to include in report	TRUE	
None	Result report settings	For report	Language	en	
None	Result report settings	For report	Whether to export Fail areas only	FALSE	

A: Save As

Click to save the parameter setting as a different name. This is mandatory to customize parameter settings with . The parameter setting will be saved to the following folder.

- When setting to apply system settings and translation settings to "Anyone who uses this computer (all users)" at the installation of ASFALIS SmartLauncher:
 - Plastic Check Report Export (With Auto Capture) or Plastic Check Report Export (No Auto Capture):
 %PUBLIC%\Documents\Elysium\ASFALIS
 SmartLauncher\scenario\shared_param\plastic_report\

- Sheet Metal Report Export (With Auto Capture) or Sheet Metal Check Report Export (No Auto Capture):
%PUBLIC%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\sheet-metal_report
- When setting to apply system settings and translation settings to named user(s) only with "Only for me <UserName>" at the installation of ASFALIS SmartLauncher:
 - Plastic Check Report Export (With Auto Capture) or Plastic Check Report Export (No Auto Capture):
%LOCALAPPDATA%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\plastic_report\
 - Sheet Metal Report Export (With Auto Capture) or Sheet Metal Check Report Export (No Auto Capture):
%LOCALAPPDATA%\Documents\Elysium\ASFALIS
SmartLauncher\scenario\shared_param\sheet-metal_report

B: Overwrite

Click to save the edits. This is enabled only when working on parameter setting without .

C: Exit

Click to close parameter settings tool.

D: Delete Parameter File

Click to delete parameter file. A dialog will appear to select the parameter file to delete.

E: Table headers

- On/Off: This column shows whether each parameter is enabled. "On" as enabled, and "Off" as disabled.
- Category: This column shows either the report export setting or the check item name.
- Parameter type: This column shows the parameter category. All the rows show "For report".
- Parameter name: This column shows the parameter name which will be used in DFM Studio Inspector.
- Value: This column shows the parameter values.

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