

Test Plan - SaveForm Macro for SolidWorks

1. Environment Preparation

- SolidWorks 2024 must be installed and running.
- Test file should be an existing part or assembly with drawing.
- Files required: Module1.bas, clsConfig.cls, SaveForm.frm, SaveForm.frx
- Macro loaded into VBA editor inside SolidWorks.

2. Functional Test Cases

2.1 Open Form

Test Steps: Run `main` macro to display the form.

Expected Result: The 'Save As' form opens with config loaded correctly.

2.2 No SW Document

Test Steps: Run macro when no file is open.

Expected Result: MsgBox: 'No active SolidWorks document found.' ()

2.3 Unsaved Document

Test Steps: Open new file but do not save. Run macro.

Expected Result: MsgBox: 'This document has not been saved.' ()

2.4 Load Config

Test Steps: Ensure Setting_config.txt exists and run macro.

Expected Result: Checkbox and textbox filled from config.

2.5 No Config

Test Steps: Delete Setting_config.txt and run macro.

Expected Result: Default values are loaded and new config file is saved.

2.6 Export All

Test Steps: Tick all DWG, DXF, PDF and click Save.

Expected Result: All 3 files exported to selected folder.

2.7 Export Some

Test Steps: Tick only PDF and click Save.

Expected Result: Only .pdf file is created.

2.8 ✓ Change File Name

Test Steps: Tick 'Change Name' and enter 'Draft_01'.

Expected Result: Files saved as Draft_01.*

2.9 ✓ Change Path

Test Steps: Tick 'Change Path' and browse folder.

Expected Result: Files saved in selected folder.

2.10 ✓ Overwrite File

Test Steps: Export with same file name again.

Expected Result: Prompt: 'File already exists. Overwrite?'

3. Negative Test Cases

Empty File Name

Remove file name and click Save.

Expected: MsgBox: 'Invalid file name'.

Invalid Path

Enter non-existent path.

Expected: Folder is created or error message shown.

4. File Validation Checklist

Setting_config.txt | Expected: | Notes: Should match selected settings.

<filename>.dwg | Expected: / | Notes: Exists if DWG selected.

<filename>.dxf | Expected: / | Notes: Exists if DXF selected.

<filename>.pdf | Expected: / | Notes: Exists if PDF selected.