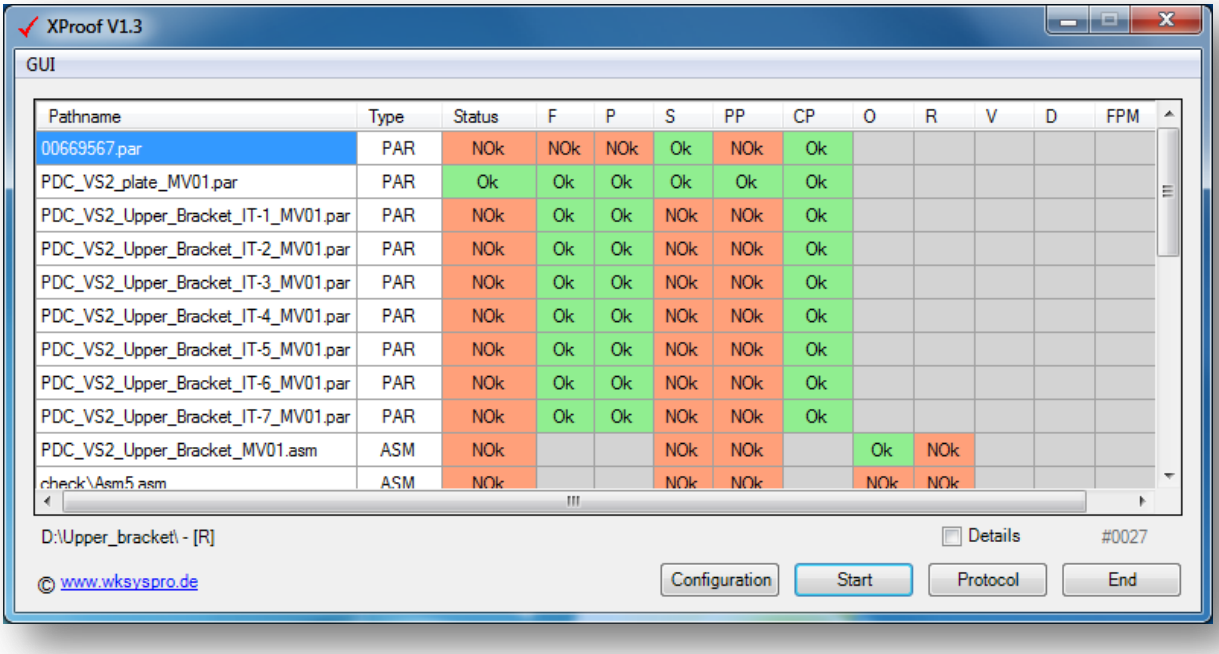
FlexSpooler ProgramSuite 2.0

Solution Partner PLM SIEMENS

Velocity Series

XProof V1.3

Release Notes



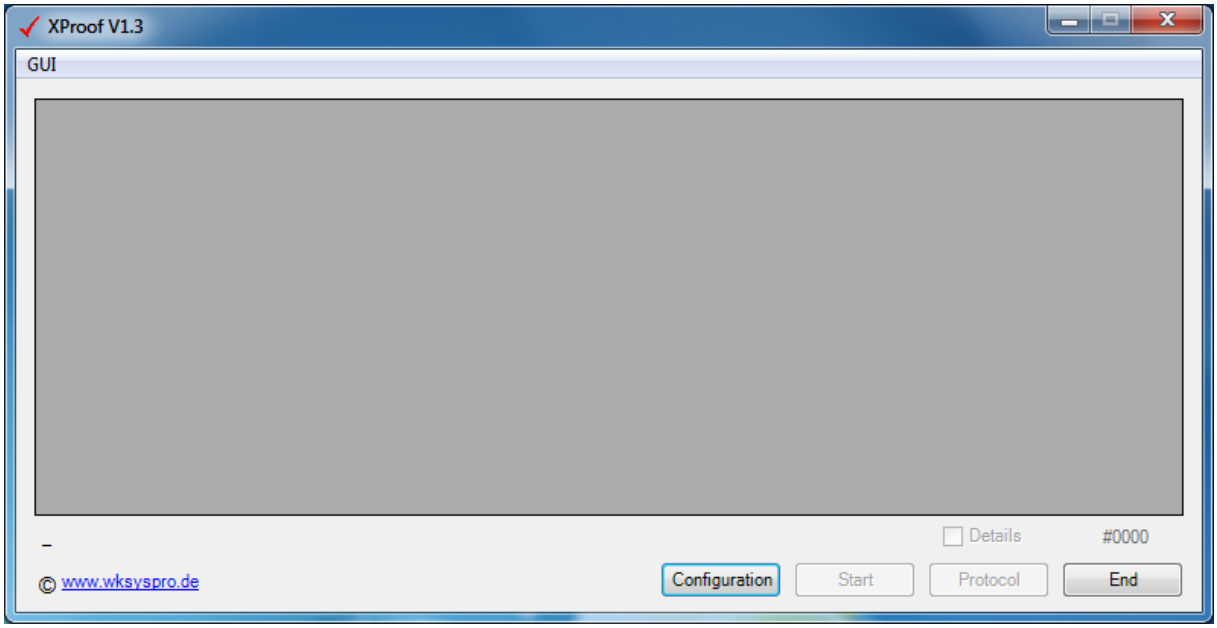
Contents

Program overview

XProof is an application to proof Solid Edge ASM/DFT/PAR/PSM data files via Solid Edge automation. See Table 3 - Details on built in proofs in the appendix for a detailed list of proofs currently done depending on the Solid Edge file type.

A customized version of XProof may also be extended to further proof company policies like i.e. Solid Edge file name conventions, required properties entries, standard part sources and many more. Please contact us in case of such a requirement.

XProof presents to the user a graphical user interface as shown below when started by double clicking on the program icon for XProof.exe. XProof may also be invoked with parameters given on the command line. Then XProof works in batch mode with no graphical user interface.

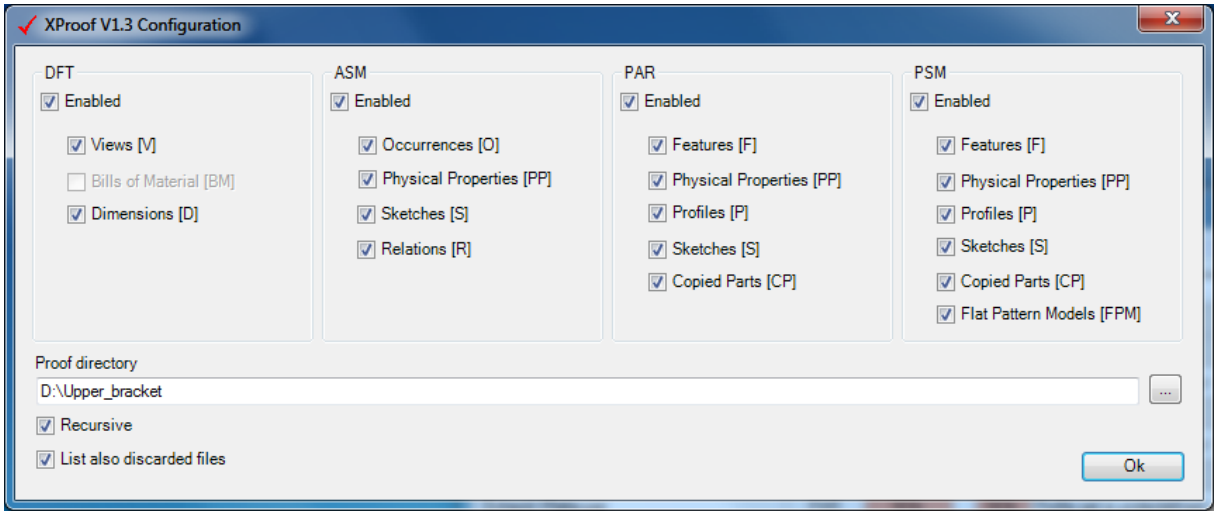


Picture 1 - Application window of XProof in GUI mode

In the upper left corner you find a program menu named *GUI* which allows you to choose from several languages being used for the graphical user interface and also for the contents of the generated protocol files. In XProof V1.3, compared to previous versions, currently only English and German texts are fully localized. Whenever a localized text is missing the English text will be used instead.

To get the lower right buttons labeled *Start* and *Protocol* enabled you have to set/verify the configuration first by pressing on the button labeled *Configuration*, or leave the program by pressing the button labeled *End* or by pressing the close window button labeled *X* at the upper right.

The configuration dialog shown below allows you to enable/disable the proofing by Solid Edge file types or by enabling/disabling single proofs related to a Solid Edge file type. See Table 3 in the appendix for a detailed list which proofs are actually done when i.e. proofing *Views*, *Dimensions* etc.



Picture 2 - Configuration dialog

You also have to specify a valid (= existing) root directory containing the Solid Edge data files to proof by either entering a valid path into the text box labeled *Proof directory* or by pressing the right hand button labeled "…" which will open a directory browser dialog which allows to comfortably navigate to and to select the desired directory. Write permissions are required for the selected root directory, because XProof will create in there hardcoded at least 3 protocol files named *XProof* plus different kind of extensions (*.txt*, *.csv*, *.xml* and optional *.xls* or *.xlsx*).

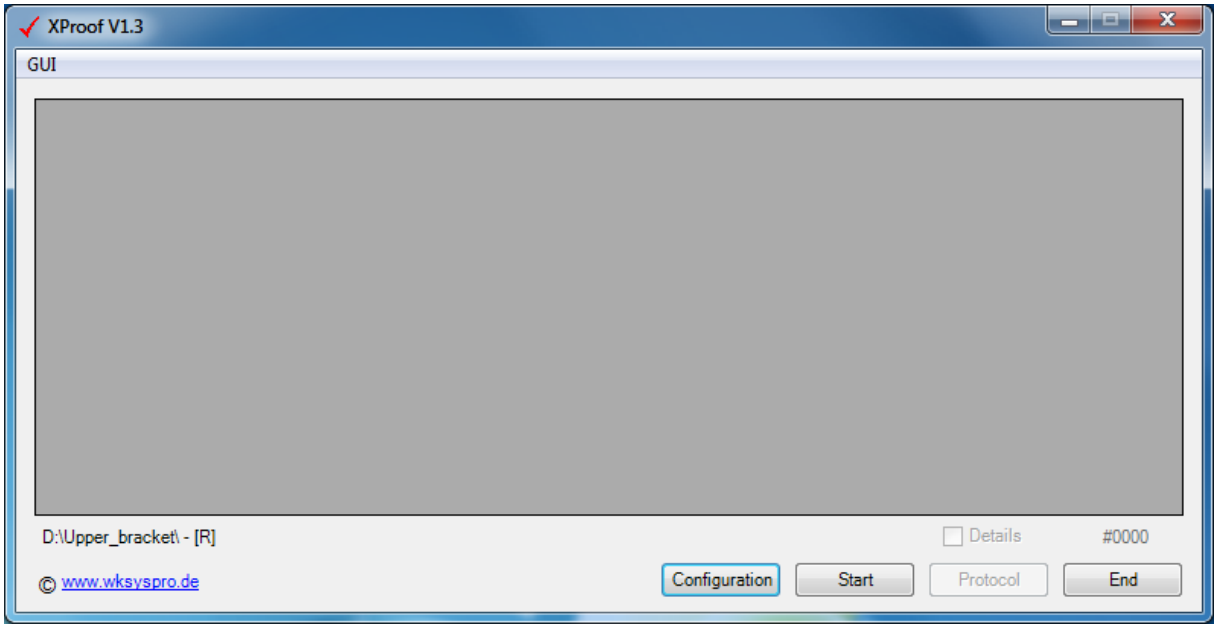
Selecting the checkbox labeled *Recursive* will also recursively include all subdirectories.

If you want to get also those Solid Edge files listed in the protocol(s) whose file type either was excluded from being proofed or which matched the *DoNotProofOn* criterion specified in the configuration file *XProof.ini* (see Table 2 - Configuration file XProof.ini), then you should select the checkbox labeled *List also discarded files*.

By pressing the button labeled *Ok* all your settings get saved and will be set as default on next opening of the configuration dialog. The settings get saved in the Windows registry under the key:

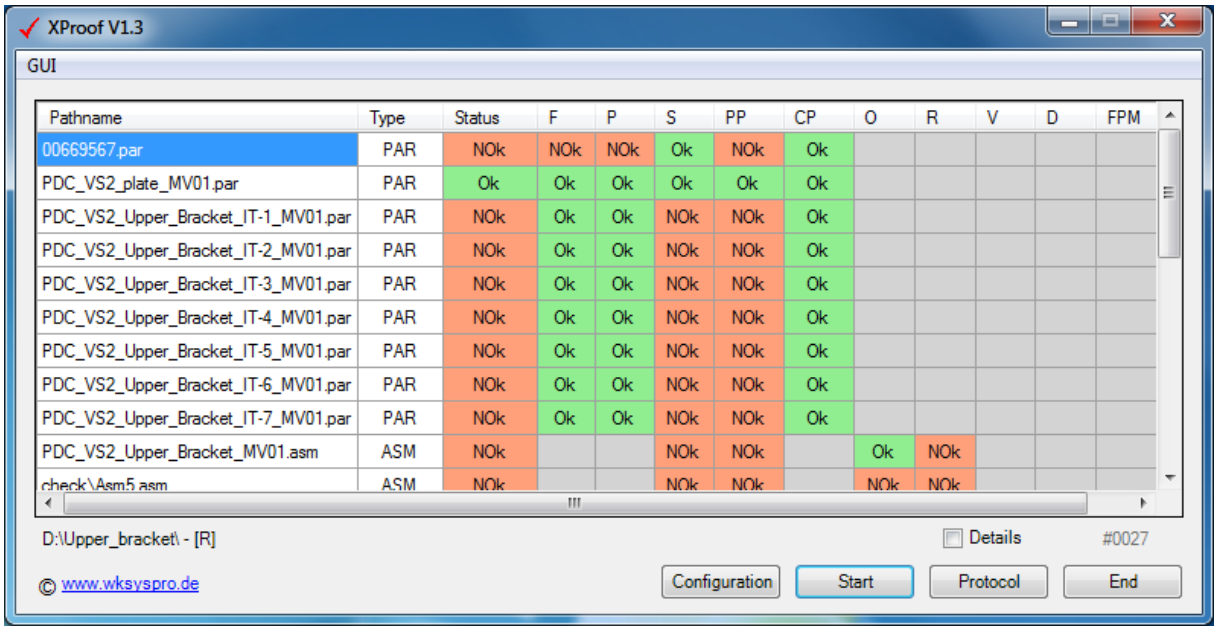
HKEY_CURRENT_USER\Software\VB and VBA Program Settings\XProof V1.3

Now back to the main dialog window the button labeled *Start* got enabled (see picture below) and you may start proofing by pressing it.



Picture 3 - Application window with Start button enabled

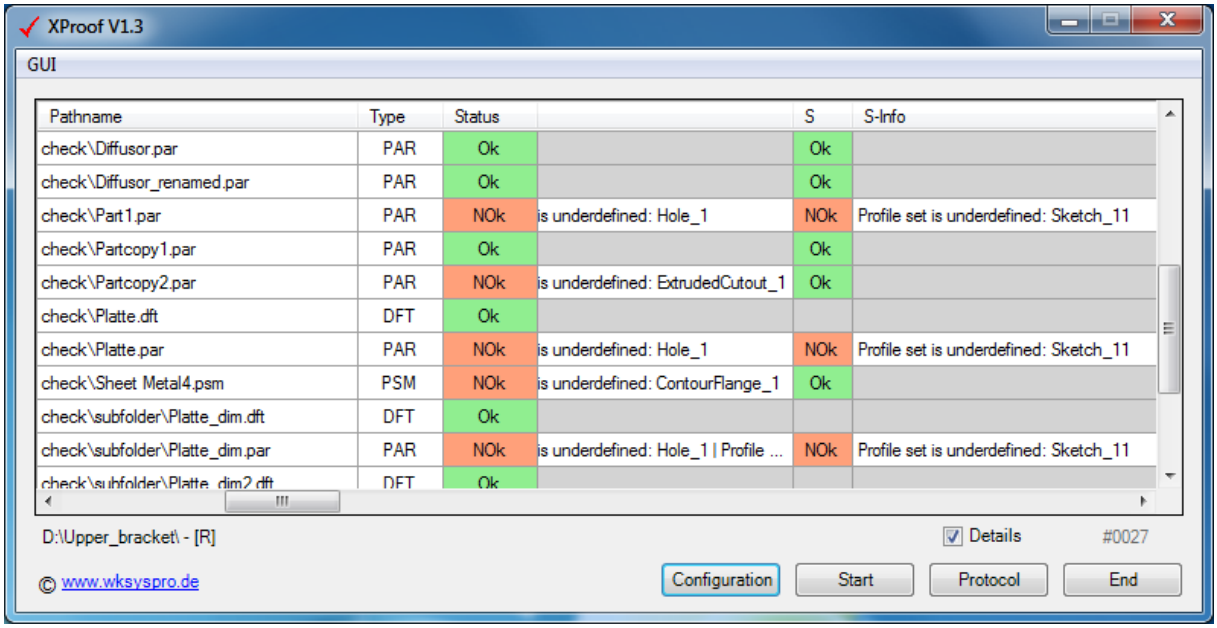
While proofing a data grid is filled step by step showing the progress of the program. The button before labeled *Start* changed now to *Stop*, allowing interrupting the process at any time. The process will abort on completion of the proof of the current Solid Edge file. On normal completion of XProof now also the checkbox labeled *Details* and the button labeled *Protocol* will be enabled.



Picture 4 - Application window after a completed proof run

Moving the mouse cursor over the column headers will show you tooltip texts with the full name of the column. You also get a tooltip text with detailed error description on placing the mouse cursor over a NOk (=Not Ok) field in one of the proof result columns. Alternatively you may select the

checkbox labeled *Details* which will display before hidden info columns with the details on tests with the failed status NOk (= Not Ok).



Picture 5 - Data grid shown with Details check box checked displaying details on failed proofs

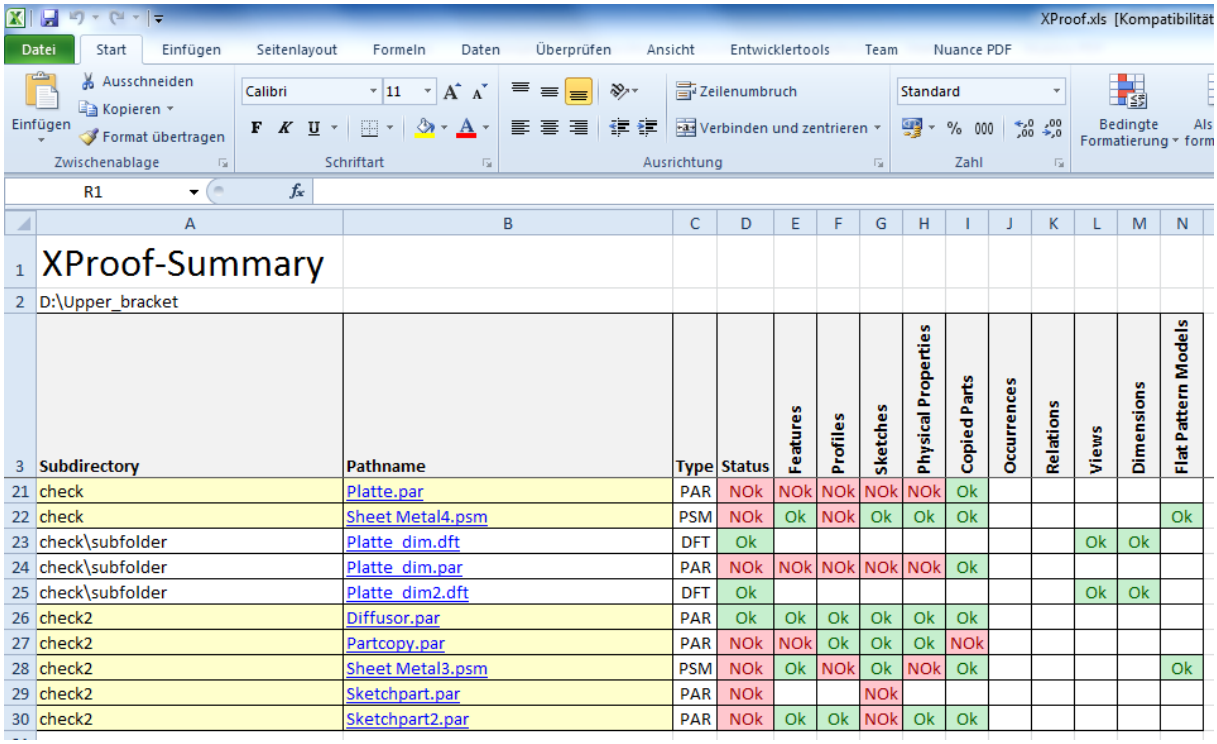
You may sort columns in ascending or descending order by alternating clicking on the column headers. A small arrow will appear right to the column`s header name and will indicate the sort order.

The width of a column may be changed by clicking and dragging the mouse cursor onto the separator line between two columns. A double click on the separator line will auto fit the width of the column left to the mouse cursor.

Clicking on a filename shown in the column labeled *Pathname* will open the selected file in Solid Edge after confirming a presented dialog (requires the extensions of Solid Edge data files correctly being associated with the Solid Edge application).

At any time you may either repeat the program run by directly pressing again the button labeled *Start* or by first opening the configuration dialog again, doing some changes and then pressing the button labeled *Start*.

Pressing the (now enabled) button labeled *Protocol* opens the protocol file configured in the configuration file *XProof.ini* in its appropriate application (either .txt, .csv, .xml, .xls or .xlsx). The next 2 pictures below (see Picture 6 - Excel protocol in format xls and Picture 7 - Excel protocol in format xlsx)show an excerpt of an optional created Excel protocol file. The first picture shows an Excel file compatible to Excel 2003 or former (.xls) while the second picture shows an Excel file of the Excel 2007/2010 format (.xlsx) using the new feature of table formatting to achieve similar functionality as available in the data grid inside of the XProof application shown above. In both Excel protocol file versions a Solid Edge file may be opened in Solid Edge by clicking on the corresponding Hyperlink cell.

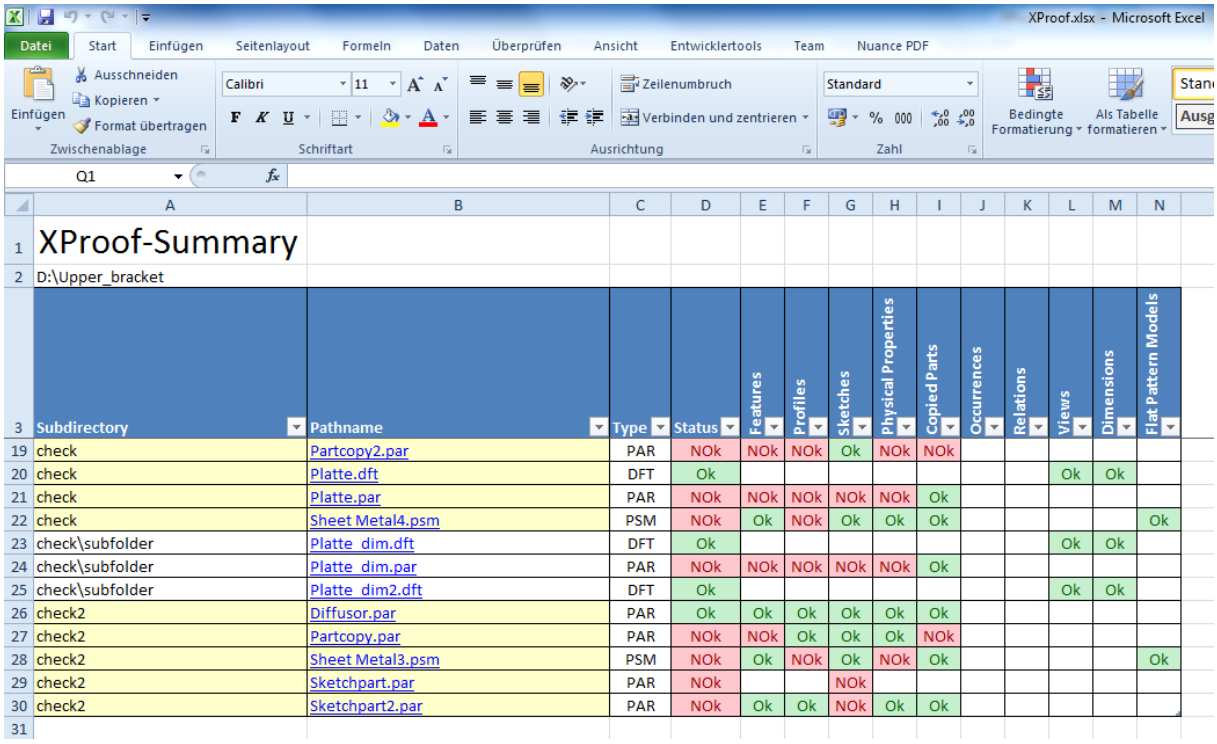


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	XProof-Summary													
2	D:\Upper_bracket													
3	**Subdirectory**	**Pathname**	**Type**	**Status**	**Features**	**Profiles**	**Sketches**	**Physical Properties**	**Copied Parts**	**Occurrences**	**Relations**	**Views**	**Dimensions**	**Flat Pattern Models**
21	check	Platte.par	PAR	NOk	NOk	NOk	NOk	NOk	Ok					
22	check	Sheet Metal4.psm	PSM	NOk	Ok	NOk	Ok	Ok	Ok					Ok
23	check\subfolder	Platte_dim.dft	DFT	Ok								Ok	Ok	
24	check\subfolder	Platte_dim.par	PAR	NOk	NOk	NOk	NOk	NOk	Ok					
25	check\subfolder	Platte_dim2.dft	DFT	Ok								Ok	Ok	
26	check2	Diffusor.par	PAR	Ok	Ok	Ok	Ok	Ok	Ok					
27	check2	Partcopy.par	PAR	NOk	NOk	Ok	Ok	Ok	NOk					
28	check2	Sheet Metal3.psm	PSM	NOk	Ok	NOk	Ok	NOk	Ok					Ok
29	check2	Sketchpart.par	PAR	NOk			NOk							
30	check2	Sketchpart2.par	PAR	NOk	Ok	Ok	NOk	Ok	Ok					

Picture 6 - Excel protocol in format xls

The alternating background color of the first two columns *Subdirectory* and *Filename* indicate a change of the directory to get a better overview of Solid Edge files coming from the same directory.

The creation of the Excel protocol file(s) is based on supplied template files. One for the xls and another one for the xlsx Excel file format. These template files may be customized by you according to your needs. Most formatting is done by using Excel`s conditional formatting capability which controls the background color for cells with an NOK or Ok entry. The output of XProof will be placed relatively to the given upper left cell (which is by default the cell A2) specified in the XProof configuration file *XProof.ini* (see Table 2 - Configuration file XProof.ini).



XProof.xlsx - Microsoft Excel

Datei | Start | Einfügen | Seitenlayout | Formeln | Daten | Überprüfen | Ansicht | Entwicklertools | Team | Nuance PDF

Ausschneiden, Kopieren, Format übertragen, Einfügen — Zwischenablage
Calibri, 11 — Schriftart
Zeilenumbruch, Verbinden und zentrieren — Ausrichtung
Standard — Zahl
Bedingte Formatierung, Als Tabelle formatieren

Q1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	XProof-Summary													
2	D:\Upper_bracket													
3	Subdirectory	Pathname	Type	Status	Features	Profiles	Sketches	Physical Properties	Copied Parts	Occurrences	Relations	Views	Dimensions	Flat Pattern Models
19	check	Partcopy2.par	PAR	NOk	NOk	NOk	Ok	NOk	NOk					
20	check	Platte.dft	DFT	Ok								Ok	Ok	
21	check	Platte.par	PAR	NOk	NOk	NOk	NOk	NOk	Ok					
22	check	Sheet Metal4.psm	PSM	NOk	Ok	NOk	Ok	Ok	Ok					Ok
23	check\subfolder	Platte_dim.dft	DFT	Ok								Ok	Ok	
24	check\subfolder	Platte_dim.par	PAR	NOk	NOk	NOk	NOk	NOk	Ok					
25	check\subfolder	Platte_dim2.dft	DFT	Ok								Ok	Ok	
26	check2	Diffusor.par	PAR	Ok	Ok	Ok	Ok	Ok	Ok					
27	check2	Partcopy.par	PAR	NOk	NOk	Ok	Ok	Ok	NOk					
28	check2	Sheet Metal3.psm	PSM	NOk	Ok	NOk	Ok	NOk	Ok					Ok
29	check2	Sketchpart.par	PAR	NOk			NOk							
30	check2	Sketchpart2.par	PAR	NOk	Ok	Ok	NOk	Ok	Ok					
31														

Picture 7 - Excel protocol in format xlsx

The other types of protocol files generated by XProof are in ASCII/XML format:

- XProof.txt
  - This format is compatible to previous versions of XProof. It shows a kind of chrono-logical, hierarchical ordered protocol of XProof`s program execution.
  - Remark: This is currently the only protocol generated when using XProof in batch mode (command line mode).
- XProof.csv
  - This is a comma separated ASCII file representing the data grid contents of the XProof user interface.
- XProof.xml
  - This file contains the data grid contents of the XProof user interface formatted as a XML file.

Command line parameters for the batch mode

Supported command line parameters are:

- Processing a single Solid Edge data file (ASM/DFT/PAR/PSM)

  XProof.exe /file:file_pathname
  [/output:output_file_pathname] [/recursive:0|1]
  [/culture:cs-CZ|de-DE|en-US|fr-FR|it-IT|hu-HU]

- Processing all Solid Edge data files (ASM/DFT/PAR/PSM) found underneath a given directory

  XProof.exe /dir:directory_pathname
  [/output:output_file_pathname] [/recursive:0|1]
  [/culture:cs-CZ|de-DE|en-US|fr-FR|it-IT|hu-HU]

Remarks:

- XProof uses also in batch mode the user specific settings saved once in the registry under the key: *HKEY_CURRENT_USER\Software\VB and VBA Program Settings\XProof V1.3*
  So XProof should be opened and configured once in GUI mode by the user who will use XProof later on in batch mode. Alternatively you may export/import the registry key shown above.
- In batch mode XProof currently supports only the generation of the txt protocol file output.

Requirements

XProof requires .NET 4.0 runtime to be installed. For Excel protocol files Excel 2002/2003/2007 or 2010 is required.

XProof is verified to run on the Windows operating system / Solid Edge configurations shown below. Updates to this list can be found online on: http://www.wksyspro.de/en/support/support.html

System/Application	Solid Edge V20 32/64-Bit	Solid Edge ST/ST2/ST3 32/64-Bit
Windows XP 32/64-Bit	√/√	√/√
Windows Vista 32/64-Bit	√/√	√/√
Windows 7 32/64-Bit	*/*	√/√

Table 1 - Windows operating systems / Solid Edge versions

Installation/Uninstallation

Use the so called xcopy method to install XProof: Just copy the folder containing XProof and its components to i.e. “C:\Program Files” onto each computer.

Due to the changed default code access security of .NET 4.0 for the intranet network, now XProof V1.3 may also be used from an intranet network share without requiring anymore the restricted .NET CAS-policy setting to be changed on each client PC.

To uninstall XProof just remove the folder containing XProof from the system. You may then also remove the Windows registry key HKEY_CURRENT_USER\Software\VB and VBA Program Settings\XProof V1.3 from each user`s registry.

Configuration

Some configuration of XProof can be done only by editing the file *XProof.ini*. The table below shows the contents of the configuration file along with the comments describing the meaning of the entries.

[Options]
Options section
<Optional>: Discard proofing files owning specified property and value pair (PropName=Value).
DoNotProofOn=
<optional>: ExcelProtocol defines which Excel protocol format to create (XLS or XLSX) – requires # Excel to be installed. If empty, no Excel file will be generated.
ExcelProtocolUpperLeftCell specifies the upper left cell where to start the protocol output on sheet 1 of the Excel template file XProof.xls(x)
ExcelProtocol=XLS
ExcelProtocolUpperLeftCell=A2
<optional>: Defines which protocol file is opened by pressing the button Protocol # (TXT, CSV, XML, XLS or XLSX).
ButtonProtocolOpens=XLS
<Optional>: Option to show GUI buttons under Windows XP in XP visual style (0=No, 1=Yes).
If 'No', flat popup style will be used (recommended for Windows 2000 or classic style).
XPButtonStyle=1

Table 2 - Configuration file XProof.ini

Appendix

Detailed overview on XProof`s built in standard proofs on Solid Edge data files.

Type	Proof	Details
DFT		
	Views	Status check: Out of date
	Bills of Material	Remark: Currently not available/possible!
	Dimensions	Status check: Detached or error
ASM		
	Occurrences	Status check: Link to reference is broken Status check: Position not fixed
	Physical Properties	Status check: Out of date
	Sketches	Status check: Profile under defined
	Relations (3D)	Status check: Suppressed
	Assembly Features	Remark: Currently not available/possible!
PAR		
	Features	Remark: Ignores Tube Features! Ignored if no model is present! Status check: Feature failed, suppressed or warned
	Profiles	Remarks: Ignores Tube Features! Ignored if no model is present! Status check: Profile under defined
	Sketches	Status check: Profile under defined Status check: Feature failed, suppressed or warned
	Physical Properties	Remarks: Ignored if no model is present! Status check: Weight or Physical Properties undefined
	Copied Parts	Remarks: Ignored if no model is present! Status check: Link broken or out of date Status check: Feature failed, suppressed or warned
PSM		
	Features	Remarks: Ignores Tube Features! Ignored if no model is present! Status check: Feature failed, suppressed or warned
	Profiles	Remarks: Ignores Tube Features! Ignored if no model is present! Status check: Profile under defined
	Sketches	Status check: Profile under defined Status check: Feature failed, suppressed or warned
	Physical Properties	Remarks: Ignored if no model is present! Status check: Weight or Physical Properties undefined
	Copied Parts	Remarks: Ignored if no model is present! Status check: Link broken or out of date Status check: Feature failed, suppressed or warned
	Flat Pattern Models	Remarks: Ignored if no model is present! Status check: Out of date

Table 3 - Details on built in proofs