

Converting a STEP 7 project to .xlsx and .xml format

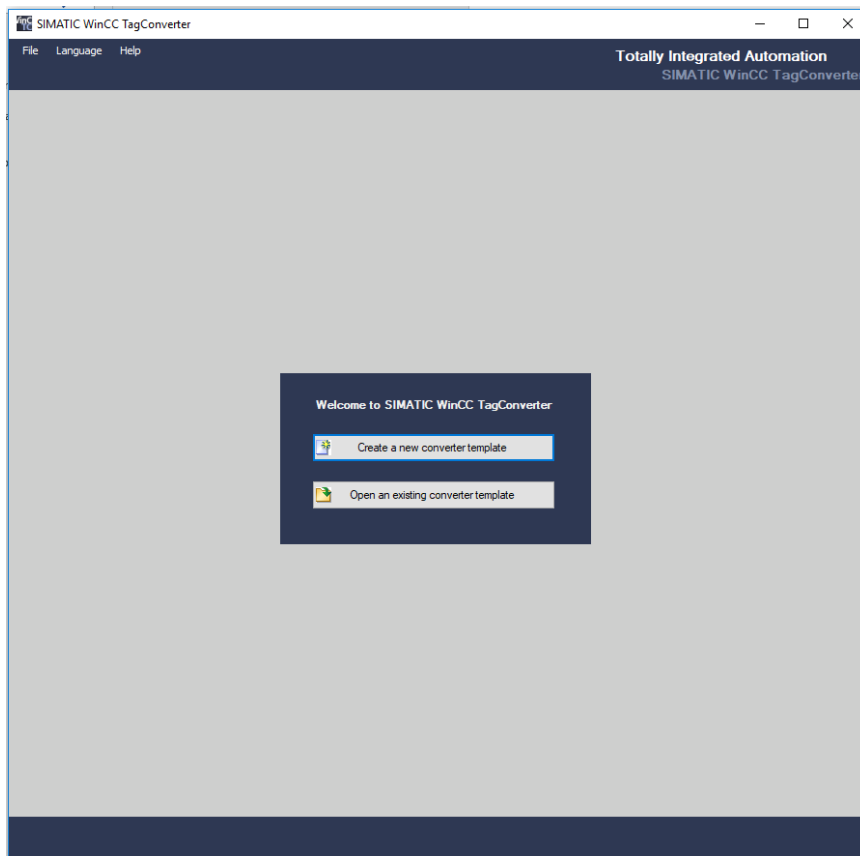
Creating a new conversion job:

Introduction:

A conversion job specifies the format of the data to be imported and the source path for the conversion.

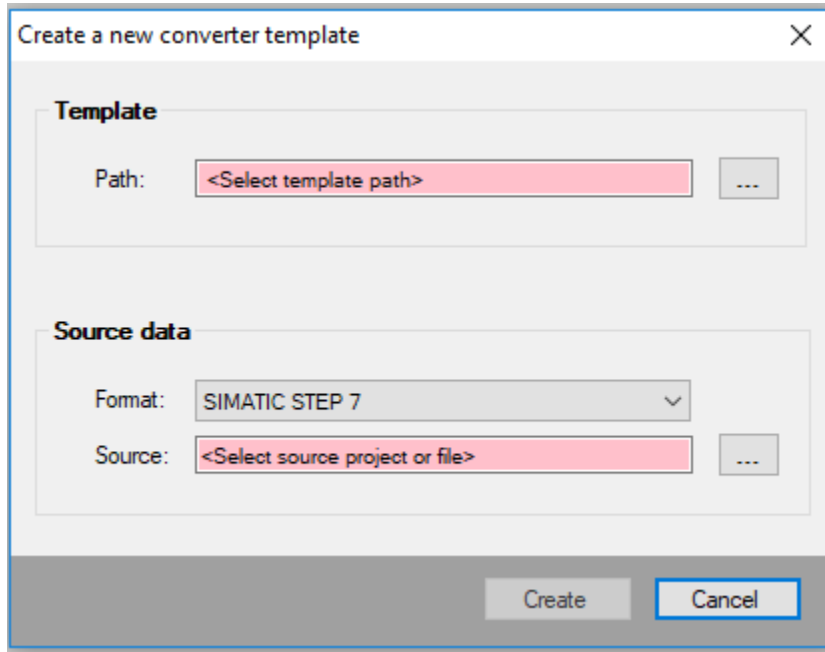
To create a conversion job, proceed as follows:

1. Click "Create a new converter template".



Alternatively, select "New" from the File menu.

The "Create a new conversion template" dialog opens.



1. Under "Template", select the directory and name of the job file. The file name is assigned the extension "conv".
2. Under the import file, select "SIMATIC STEP 7" as the "Format".
3. Under "Source", select the directory and name of the input project file, ".s7p".
4. Click the "Create" button.

Result

The settings made are saved to the job file. The STEP 7 project opens.

In addition, all settings made in the conversion template are saved.

Open an existing template:

To open an existing conversion template, follow these steps:

1. Click "Open existing conversion job".
2. Select a file with the extension, .conv.

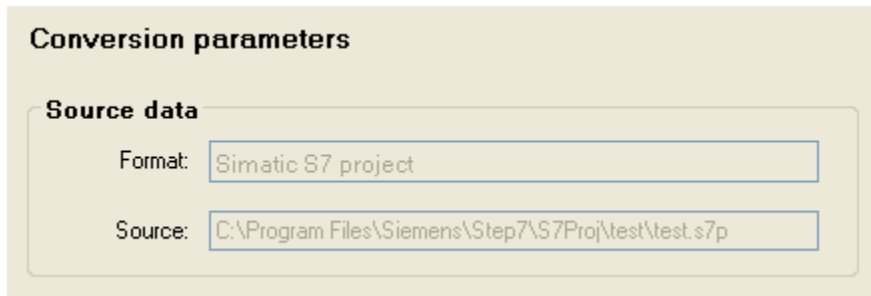
Alternatively, select "Open" from the File menu.

Conversion settings:

Conversion parameters:

After creating or opening a job file, the conversion parameters are displayed in the left section of the interface.

The WinCC TagConverter automatically reads the tags and symbols from the specified project.



The screenshot shows a dialog box titled "Conversion parameters". Inside, there is a section labeled "Source data" which contains two text input fields. The first field is labeled "Format:" and contains the text "Simatic S7 project". The second field is labeled "Source:" and contains the file path "C:\Program Files\Siemens\Step7\S7Proj\test\test.s7p".

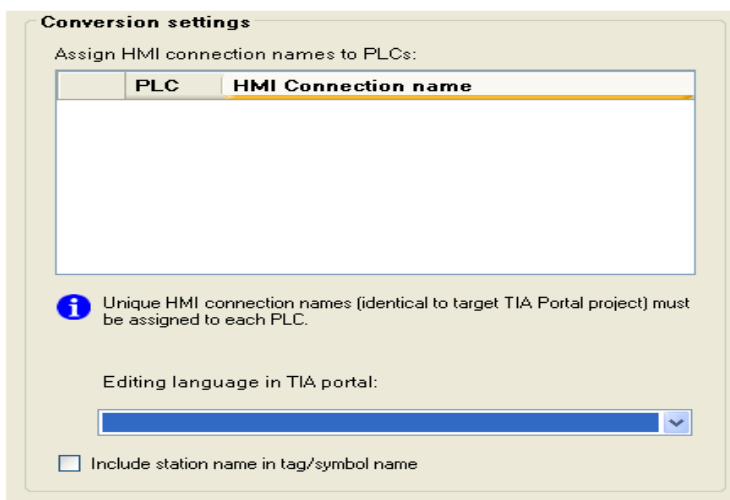
Conversion settings:

Once you have selected tags in the object selection, the name of the associated controller from which the tags are to be exported appears under conversion settings. The name of the connection configured in WinCC (TIA Portal) must be specified in the HMI connection name field.

Note

Identical name of the HMI connection

The data can be successfully imported into the TIA Portal only when the specified HMI connection name exactly matches the name in WinCC.



The screenshot shows a dialog box titled "Conversion settings". It contains a section "Assign HMI connection names to PLCs:" with a table below it. The table has two columns: "PLC" and "HMI Connection name". Below the table, there is an information icon (i) with the text: "Unique HMI connection names (identical to target TIA Portal project) must be assigned to each PLC." Below this, there is a label "Editing language in TIA portal:" followed by a dropdown menu. At the bottom, there is a checkbox labeled "Include station name in tag/symbol name".

Editing language in the TIA Portal

The language in which the comments are imported into the WinCC project.

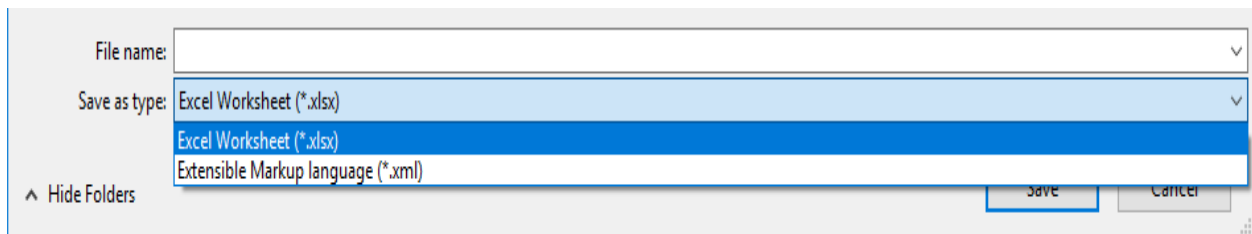
Insert station name in tag/symbol names

If you select this option, the controller name is prefixed to all exported symbols. This makes the symbols clear to understand; the same symbol name appears even on different control systems.

Output file

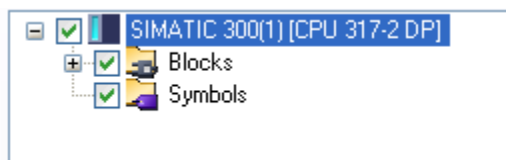


Specify the path and file name of the export file. The extension is .xlsx or .xml. The .xlsx file is generated in Microsoft Excel format (Excel 2007 version).



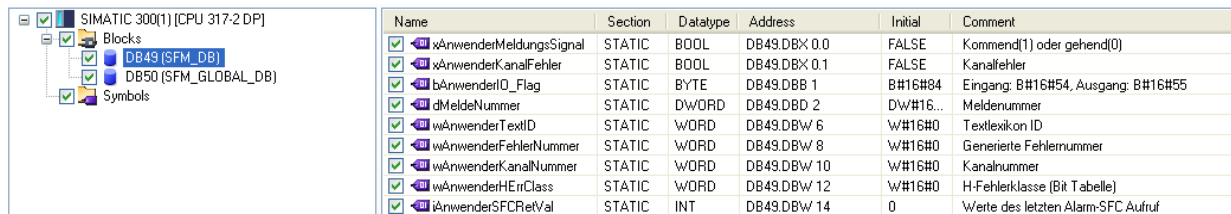
Select object:

All existing control systems in the input project are listed in the right section of the "Object Selection" tab.



Selected objects

The data blocks and symbols can be made visible by expanding them. When you click on a block, the individual tags of the block are listed in the right list area; when you click on "Symbols" all symbols are listed.



Name	Section	Datatype	Address	Initial	Comment
xAnwenderMeldungsSignal	STATIC	BOOL	DB49.DBX 0.0	FALSE	Kommend[1] oder gehend[0]
xAnwenderKanalFehler	STATIC	BOOL	DB49.DBX 0.1	FALSE	Kanalfehler
bAnwenderIO_Flag	STATIC	BYTE	DB49.DBB 1	B#16#84	Eingang: B#16#54, Ausgang: B#16#55
dMeldNummer	STATIC	DWORD	DB49.DBD 2	DW#16...	Meldenummer
wAnwenderTextID	STATIC	WORD	DB49.DBW 6	W#16#0	Textlexikon ID
wAnwenderFehlerNummer	STATIC	WORD	DB49.DBW 8	W#16#0	Generierte Fehlernummer
wAnwenderKanalNummer	STATIC	WORD	DB49.DBW 10	W#16#0	Kanalnummer
wAnwenderHerrClass	STATIC	WORD	DB49.DBW 12	W#16#0	H-Fehlerklasse (Bit Tabelle)
iAnwenderSFCRetVal	STATIC	INT	DB49.DBW 14	0	Werte des letzten Alarm-SFC Aufruf

Example: Faceplate

Setting appropriate check marks,

1. Selects the entire controller, which means all blocks and all symbols of the controller are selected
2. Selects a complete block or all symbols or
3. Selects individual tags or individual symbols

All selected objects are included in the conversion.

Saving settings

Before you convert a file or close the TagConverter, save the changed settings.

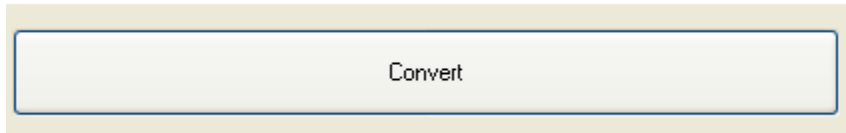
1. Select the shortcut keys Ctrl + S.

Optionally:

1. Select the "Save" command in the File menu.

Performing conversion

When all necessary settings have been made, the *"Convert"* button is enabled.



Click "Convert" to start the conversion. The conversion can take several minutes.

Note

The conversion process cannot be canceled.

View log

The "Conversion Log" tab opens automatically when the conversion is finished. You can view the log immediately.

If problems have occurred, a message is displayed below in the status area, for example:



✓ Conversion finished with warnings. Please check the conversion log

Manually editing the output file

- The created **.xlsx** output file can be opened with Microsoft Excel (version 2007 or later), verified and modified, if necessary.
- The created **.xml** output file can be opened with editors, verified and modified, if necessary.