

# Tech tip: PLC assignment list exchange SIEMENS STEP 7 TIA Portal (SDF)

# General

This TechTip helps you exchange PLC assignment lists with the SIEMENS STEP 7 TIA Portal.

# **Preparations in EPLAN**

Create a scheme for PLC-specific settings under **Options > Settings > Projects > "Project name" > Devices > PLC**:

## **Tab Addresses**

#### Inputs

Addressing	Identifier	Data type	Type of signal	Increment
Bit	%I	BOOL	Digital input	0.1
Byte	%IB	BYTE	Analog input	1
WORD	%IW	WORD	Analog input	2
DWORD	%ID	DWORD	Analog input	4
LWORD		LWORD	Analog input	8

## Outputs

Addressing	Identifier	Data type	Type of signal	Increment
Bit	%A	BOOL	Digital output	0.1
Byte	%QB	BYTE	Analog output	1
WORD	%QW	WORD	Analog output	2
DWORD	%QD	DWORD	Analog output	4
LWORD		LWORD	Analog output	8

If you have not set the language identifier to German in the TIA Portal, please adjust the identifiers "%E" and "%A", for example %I" instead of "%E" and "%Q" instead of "%A" etc.

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## Tab Format of assignment list

## Format of the assignment list row

Format element	Symbol	Setting
Separator	"	"
Symbolic address	S	[S]
Separator	"",	" " ,
Address	A	[A]
Separator	"",	" " ,
Data type	D	[D]
Separator	"",	","
Ignored text	Т	[T]
Separator	"" '	" " '
Ignored text	Т	[T]
Separator	"",	" " ,
Ignored text	Т	[T]
Separator	"" '	" " '
Function text	F	[F]
Separator	"" '	" " '
Ignored text	Т	[T]
Separator	"",	11 11 7
Ignored text	Т	[T]
Separator	11	"

The "Ignored text" format element is available for the elements in the assignment list that have no assignment in EPLAN Electric P8.

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## Format of assignment list address

Delete all format elements.

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# **Export from EPLAN and import into TIA Portal**

- All format elements that were declared as "Ignored text" were exported as empty text elements during the data export from EPLAN.
- During the data import into the TIA Portal all assignments are newly generated as assignments. There is no synchronization with already existing entries!

# Export from TIA Portal and import into EPLAN

• During the data import into EPLAN all format elements that were declared as "Ignored text" are ignored.