

TechTip: Creation of configuration data for the PLC data exchange

A step-by-step procedure is advisable for the creation of the configuration data for the PLC data exchange.

You are supported here by:

- PLC navigator with filter options
- Edit in table with suitable schemes
- Check runs
 with suitable schemes (Step 1 to 3)
 The scheme "PLC data exchange (Siemens)" or "PLC data exchange (Mitsubishi)" is
 used for the complete data exchange.

The following TechTips also provide help:

- TechTip-PLC-data-exchange
- TechTip-Overview-of-the-PLC-properties
- TechTip-Recommendation-for-PLC-items-with-base-and-pluggable-logic
- TechTip-AS-i-piercing-technology
- TechTip-Preparation-of-master-data-for-PLC-data-exchange

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Step 1: Rack structure

PLC navigator

View: Rack-oriented Filter: Main functions Selection: Per station

Editing in tables

Popup menu: Edit in table

Scheme: Rack

- Enter data:
 - Configuration project
 - PLC station: ID
 - PLC station: Type
 - Rack
 - PLC card is placed on rack ID
 - Position (slot / module)
 - PLC type designation or
 - Device description: File name and Device description: Index in file
 - PLC card name or
 - Object description
- Designation of the CPU:
 - Activate CPU check box
 - CPU: Name [1]
- Further properties:
 - Bus coupler / head station
 - Start address of PLC card

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Error checking

Tab **Tools** > Command group **Review** > **Check**

In the **Settings** field, click [...].

Scheme: "PLC-Step1 (Racks)", import from the file "ISve.PLC-Step1_(Racks).xml"

004007	Rack ' <x>' is mounted on itself</x>
004009	Slot (module) ' <x>' of a rack '<y>' assigned several times</y></x>
004010	Rack ' <x>' is unknown.</x>
004013	Rack ' <x>': Ring connection</x>
004016	Rack ' <x>' is not unique</x>
004025	Slot / module is missing
004080	Missing configuration project
004081	Missing station ID
004082	Configuration project ' <x>' does not contain a CPU</x>
004083	The CPU class ' <x>' entered at the PLC box does not exist in the project</x>
004086	Missing PLC type designation or device description file
004087	Missing start address
004088	The PLC card name ' <x>' is already being used at a rack, at a CPU or as a station ID</x>
004089	PLC card name '< x>' assigned several times within a rack
004094	CPU name '< x>' assigned several times

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Step 2: PLC connection points (inputs and outputs)

PLC navigator

View: Rack-oriented

Filter: "PLC connection points" scheme, import from the file "PCfiP.PLC-

ConnectionPoints.xml" (filter for PLC connection point I/O or variable or power supply)

Selection: Per card

Editing in tables

Popup menu: Edit in table

Scheme: PLC connection point

- Enter data:
 - PLC address (can also be changed via addressing)
 - Channel designation
 - Data type
- Further properties (optional):
 - Symbolic address
 - Function text
 - Signal range

Error checking

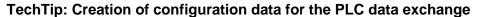
Tab Tools > Command group Review > Check

In the **Settings** field, click [...].

Scheme: "PLC-Step2 (PLC-connection points)", import from the file "ISve.PLC-Step2_(PLC-ConnectionPoints).xml"

004020	More than one I/O connection point at a channel
004021	Address has been assigned more than once within a CPU
004023	Address is missing
004027	Missing or incorrect channel designation
004030	Missing symbolic address (automatic)
004031	Symbolic address has been assigned more than once within a CPU
004085	Missing data type

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Eplan Platform Version 2026

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Step 3: Bus port

PLC navigator

View: Rack-oriented

Filter: Bus port

Selection: Configuration project

Editing in tables

Popup menu: Edit in table

Scheme: PLC bus data

Enter data:

Configuration project (automatic, at bus ports)

Plug designation

Bus interface: Name Physical network: Name

Logical network: Name

Logical network: Bus port is master

Bus system

Physical network: Bus ID / item number

Error checking

Tab **Tools** > Command group **Review** > **Check**

In the **Settings** field, click [...].

Scheme: "PLC-Step3 (Bus-connection points)", import from file "ISve.PLC-Step3_(Bus-ConnectionPoints).xml"

004035	Bus ID ' <x>' within a logical network '<y>' assigned several times (bus port in the bus system: '<z>')</z></y></x>
004036	Unknown logical network ' <x>' (bus port in the bus system: '<y>')</y></x>
004037	Missing bus ID (bus port ' <x>' in the bus system: '<y>')</y></x>
004039	Connection between different bus systems (' <x>', '<y>')</y></x>
004040	Contradictory specifications at the associated bus port were found for the bus port at ' <x>'</x>
004071	Bus interface ' <x>': 'Bus interface: Main bus port' property activated more than once or not activated</x>
004072	Bus ID ' <x>' of a physical network '<y>' assigned several times</y></x>
004080	Missing configuration project

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004084	The MasterSystemID is faulty
004091	Missing plug designation
004092	Missing bus interface name

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