

TechTip: PLC data exchange with Automation Studio 5000 by Rockwell

Use

With the release of the Version 32 of Rockwell Automation Studio 5000 it is possible to perform the exchange of PLC data in the new AML format - together with EPLAN Electric P8 as of Version 2.7.

The aim of this TechTip is to facilitate switching from the use of the previous Rockwell interface to the new AML format and carry out the required adjustments.

Basic information on the PLC data exchange is available in the **TechTip PLC overview**, details of the individual properties are available in the **TechTip PLC overview of the properties**.

Recommended procedure for the switchover

Modification of the rack structures

There are changes for the creation of the rack structure compared to the previous format:

- The numbering of the racks begins at "0" and is continued in ascending order for all racks in the configuration project
- The position of the PLC card on the rack is ascending, beginning with the value "0".
- For the configuration of field bus stations without own racks (switches, PC station or similar) see **TechTip PLC bus data exchange**, keyword "*Head station, PC station or Switches*"

The function of editing in tables makes it is easily possible to carry out the required modifications.

To this purpose use the PLC navigator with the "Main functions" filter. Select the PLC boxes to be edited and start the editing in tables via the popup menu. Here you select the "Rack" scheme.

Properties at PLC boxes that are no longer used in the AML format:

ID	Property
20259	Number of positions in the rack
20260	Number of positions in the rack (to the left)
20258	Sort code (for position in rack)

Bus ports and network structure

To edit the bus ports and network structures use the PLC navigator with the "Bus port" filter. Now select the bus ports to be edited and start the editing in tables via the popup menu. Here you select the "PLC bus data" scheme.

ID	Property	Value
20026	Function definition	Network / bus cableconnection point, general Please note that a bus port (port / plug) has only one function definition.
20161	Configuration project	As at the PLC box
20406	Plug designation	Not empty
20447	Bus interface: Name	Not empty at bus systems that are Ethernet-compatible
20448	Bus interface: Main bus port	Activated at the first bus port within an Ethernet-compatible bus interface.
20308	Bus system	Depending on the usage, for example Ethernet/IP, ControlNet, Device Net
20413	Physical network: Name	Not empty
20414	Logical network: Name	Not empty
20310	Logical network: Bus port is master	Activated at the first bus port of the bus bundle